E.O.T.T. ENERGY CORPORATION

SITE INVESTIGATION

CLAY OSBORN JALMAT #22A
Ref. # 2000-10614

SW¼ NW¼ UL-E Section 18 T25S R37E
~½ mile Northwest of Jal
Lea County, New Mexico
Latitude: 32°07'58"N Longitude: 103°12'38"W

December 8, 2001

Prepared by

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EOTT-64617
facility - fPAC0604052979
incident - nPAC0604053133
application - pPAC0604053227

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1.0 INTRODUCTION

This site is located in Unit Letter E, in the SW¼ of the NW¼ of Section 18 T25S R37E, approximately ½ mile northwest of Jal, Lea County New Mexico at Latitude 32°07'58"N and Longitude 103°12'38"W. Clay and Gerry Osborn who live in the ranch headquarters approximately 1 mile east of the site own the property. A topographical map is included in Attachment I. The leak is historical and the crude oil release and recovery volumes unknown. Photographs are included as Attachment IV.

2.0 ENVIRONMENTAL MEDIA CHARACTERIZATION

Chemical parameters of the soil and ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) approved **"General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000"** and the NMOCD guidelines published in the following documents;

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for **contaminants/constituents of concern** (CoCs), i.e., TPH, Benzene, and the sum of Benzene, Toluene, Ethyl Benzene, and total Xylene (BTEX), will be determined based on the NMOCD Ranking Criteria as follows;

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

2.1 GEOLOGICAL DESCRIPTION

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by blow sand.

2.2 ECOLOGICAL DESCRIPTION

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (Querqus harvardi) interspersed with Honey Mesquite (Prosopis glandulosa) along with typical desert grasses and weeds. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, and the Mule Deer. Reptiles, Amphibians, and Birds are numerous and

typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 AREA GROUND WATER

The unconfined ground water aquifer is estimated to occur beneath the site at approximately 70.0'bgs and is consistent with information provided by the New Mexico Tech Geoinformation website, (www.geoinfo.nmt.edu/.esrimap), the New Mexico Office of the State Engineer, and other local information available for the site. Copies of the State Engineer's Average Depth to Ground Water Reports for Range 36E and 37E in Township 25 are included in Attachment II. According to the USGS, the ground water elevation decreases generally to the southeast.

2.4 AREA WATER WELLS

There are no water wells within 1000 horizontal feet of the site. A Texas-New Mexico Pipeline installed monitor well, referred to as the Clay Osborn Pond Reference Well is located ~1100 horizontal feet southeast of the site.

2.5 AREA SURFACE WATER BODIES

During historic Texas-New Mexico Pipeline remediation activities associated with the Clay Osborn 22A and/or 22B sites during the 1990's, the dirt tank was constructed to contain run-off from the land farm up-gradient of the earthen basin. This basin, used by livestock and wildlife, contains water for most of the year but is intermittent and seasonal. The earthen basin is located approximately 890 horizontal feet southeast of the Jalmat #22A site.

3.0 NMOCD SITE RANKING

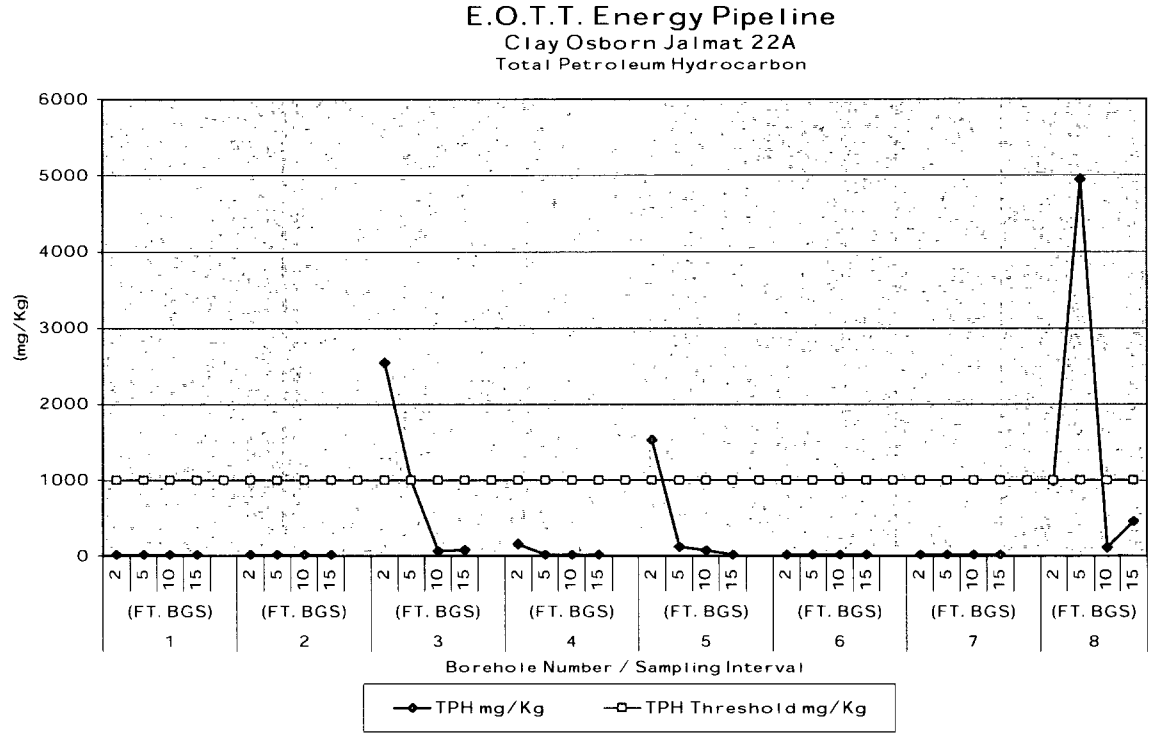
Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 20 points with the soil remedial goals highlighted below in the Site Ranking Matrix.

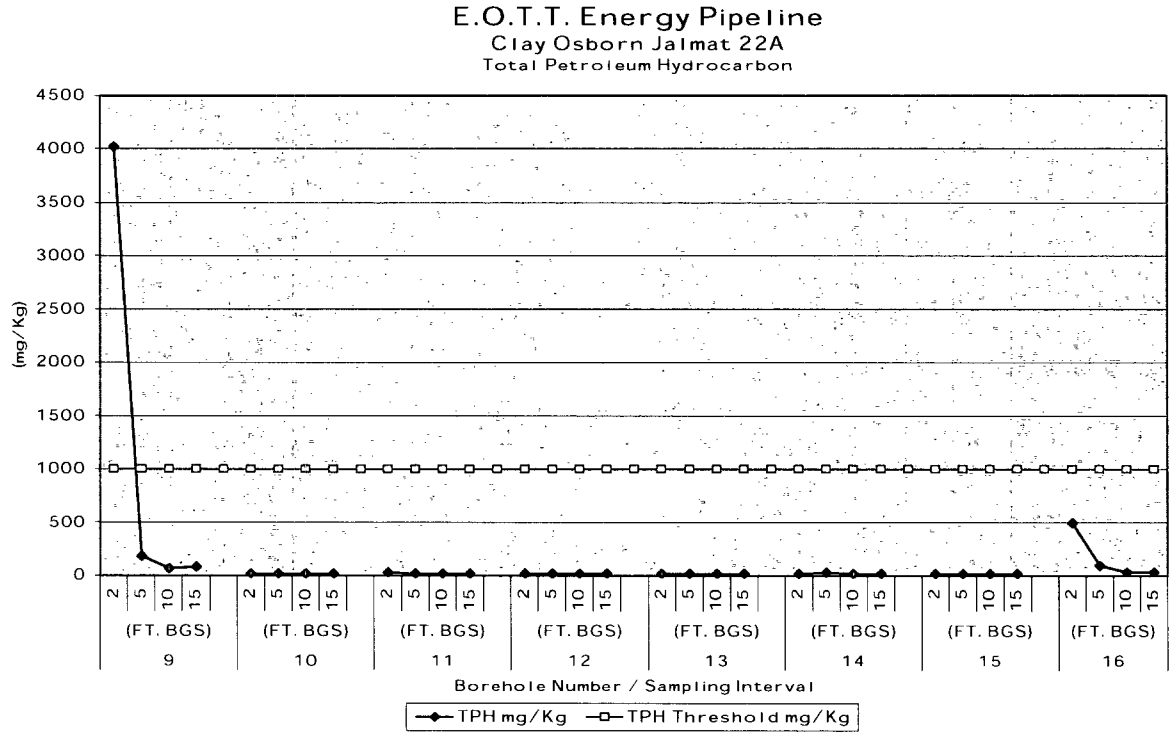
1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-1000 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Ground water Score = 10	*Wellhead Protection Area Score= 0*	*Surface Water Score= 10*
Site Rank (1+2+3) = 10 + 0 + 10 = 20 points		

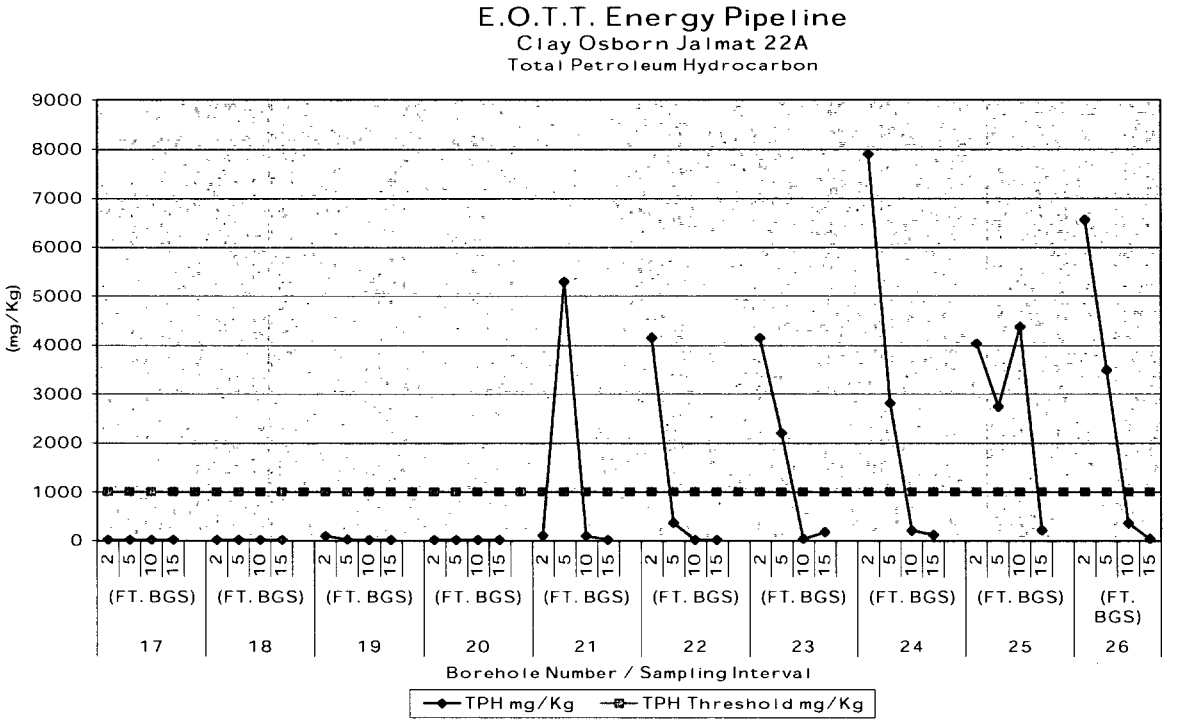
Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Parameter	**>19**		
Benzene[1]	**10 ppm**		
BTEX[1]	**50 ppm**		
TPH	**100 ppm**		
[1]100 ppm field VOC headspace measurement may be substituted for lab analysis			

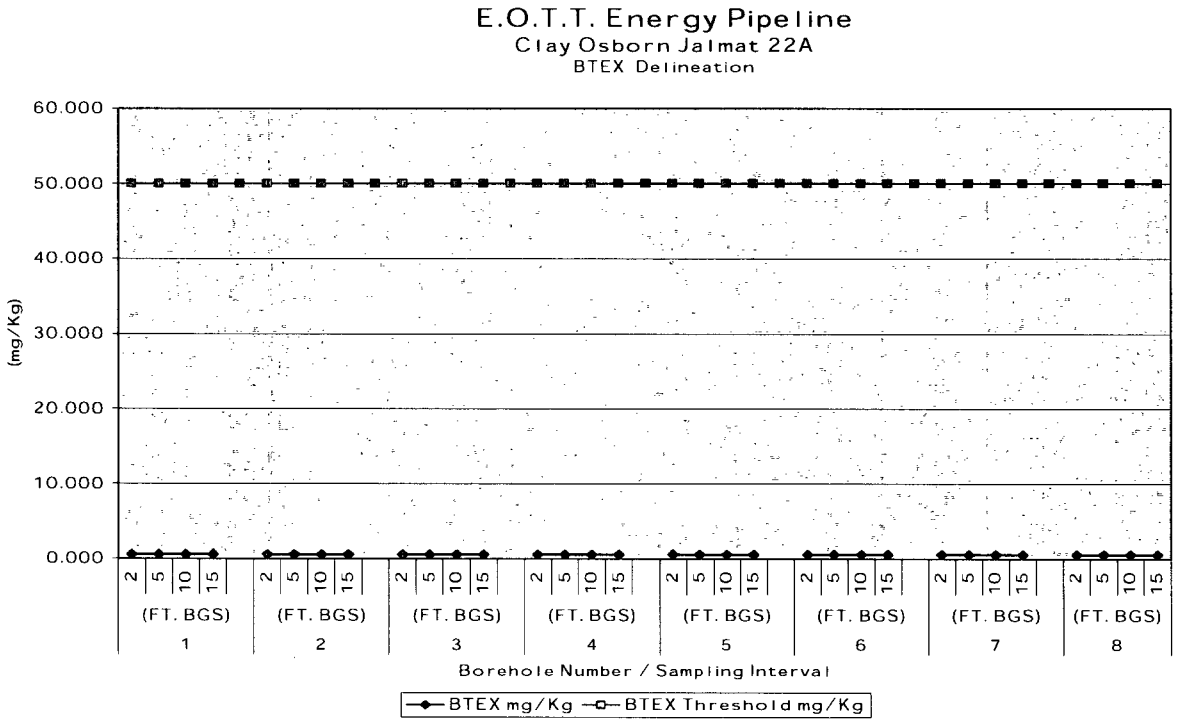
4.0 SUBSURFACE SOIL INVESTIGATION

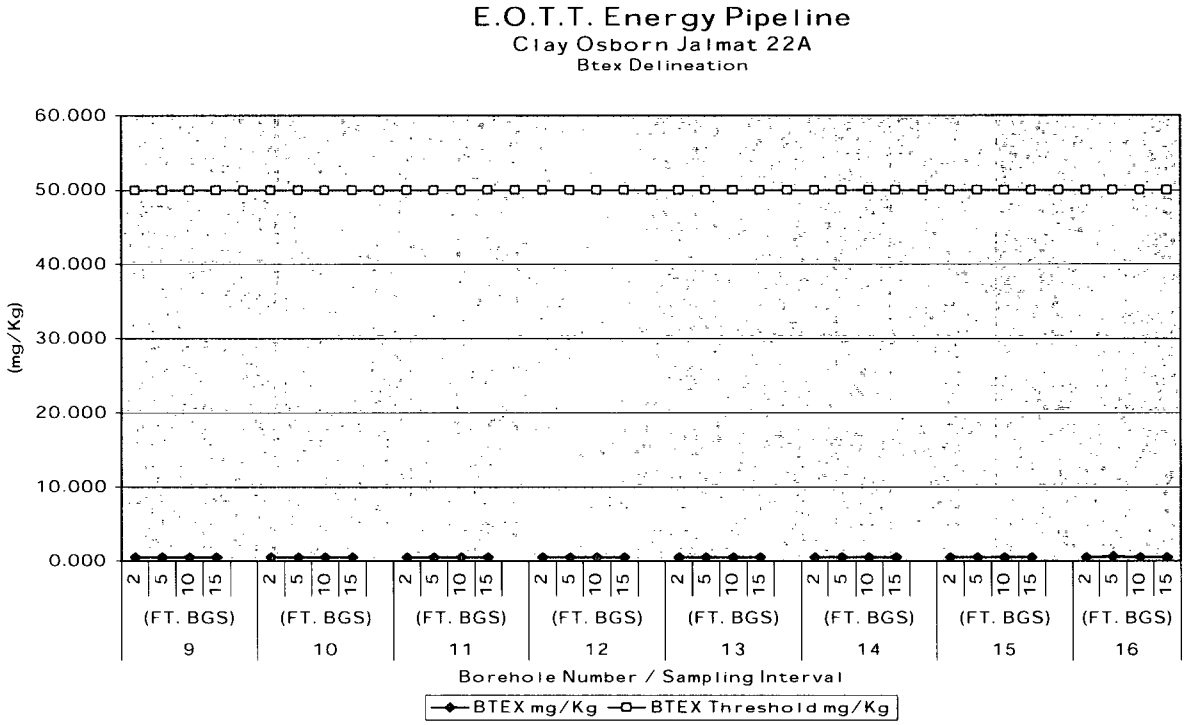
Strategically located boreholes were sampled discretely at 5' vertical intervals using a hollow stem auger and stainless steel sample probe with a vinyl sleeve. All samples were jarred immediately and refrigerated with the remainder decanted into a zip lock bag for Volatile Organic Constituent (VOC) Headspace analysis using a calibrated Photoionization Detector (PID). Sampling equipment was decontaminated routinely between sampling iterations. The site sample location map is included in Attachment I. The visible spill area perimeter defines the horizontal extent of CoC contamination and involves approximately 23,437 ft^2. Vertical contamination above 100 mg/Kg TPH^{8015m} was detected to 15'bgs in the boreholes in the eastern ? of the flow path where the spill apparently pooled and to 10'bgs in the central part of the flow path. The remainder of the site is generally impacted to the 2'bgs interval. The nominal BTEX results attest to the historical nature of the site. Estimated affected expanded (post-excavation) soil volume is $8950yd^3$, i.e., 5156 yd^3 to 15'bgs, 2604 yd^3 to 10'bgs, and 1190 yd^3 to 2'bgs. The original analytical reports are provided and summarized in Attachment III. The data is illustrated below.

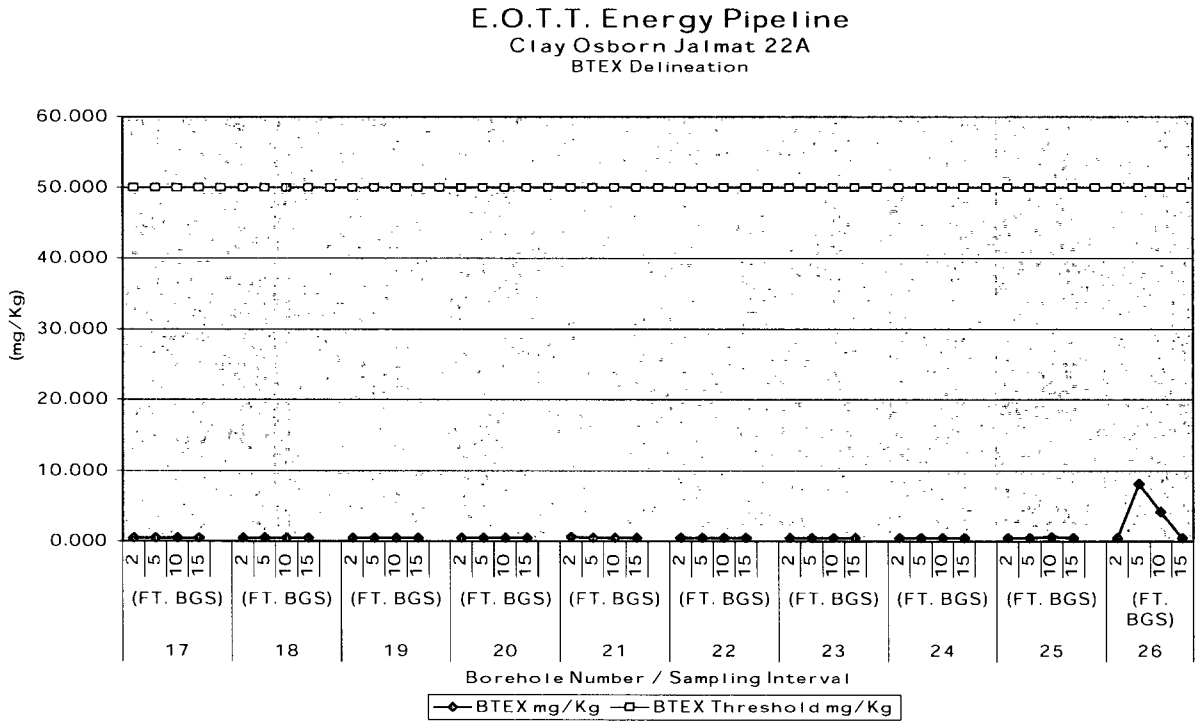

E.O.T.T. Energy Pipeline
Clay Osborn Jalmat 22A
Total Petroleum Hydrocarbon
6000
5000
4000
3000
2000
1000
0
(mg/Kg)
2 5 10 15
(FT. BGS)
1
2
3
4
5
6
7
8
Borehole Number / Sampling Interval
TPH mg/Kg
TPH Threshold mg/Kg


E.O.T.T. Energy Pipeline
Clay Osborn Jalmat 22A
Total Petroleum Hydrocarbon
4500
4000
3500
3000
2500
2000
1500
1000
500
0
(mg/Kg)
2 5 10 15
(FT. BGS)
9
10
11
12
13
14
15
16
Borehole Number / Sampling Interval
TPH mg/Kg
TPH Threshold mg/Kg


E.O.T.T. Energy Pipeline
Clay Osborn Jalmat 22A
Total Petroleum Hydrocarbon
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
(mg/Kg)
2 5 10 15
(FT. BGS)
17
18
19
20
21
22
23
24
25
26
Borehole Number / Sampling Interval
TPH mg/Kg
TPH Threshold mg/Kg


E.O.T.T. Energy Pipeline
Clay Osborn Jalmat 22A
BTEX Delineation
60.000
50.000
40.000
30.000
20.000
10.000
0.000
(mg/Kg)
2 5 10 15
(FT. BGS)
1
2
3
4
5
6
7
8
Borehole Number / Sampling Interval
BTEX mg/Kg
BTEX Threshold mg/Kg

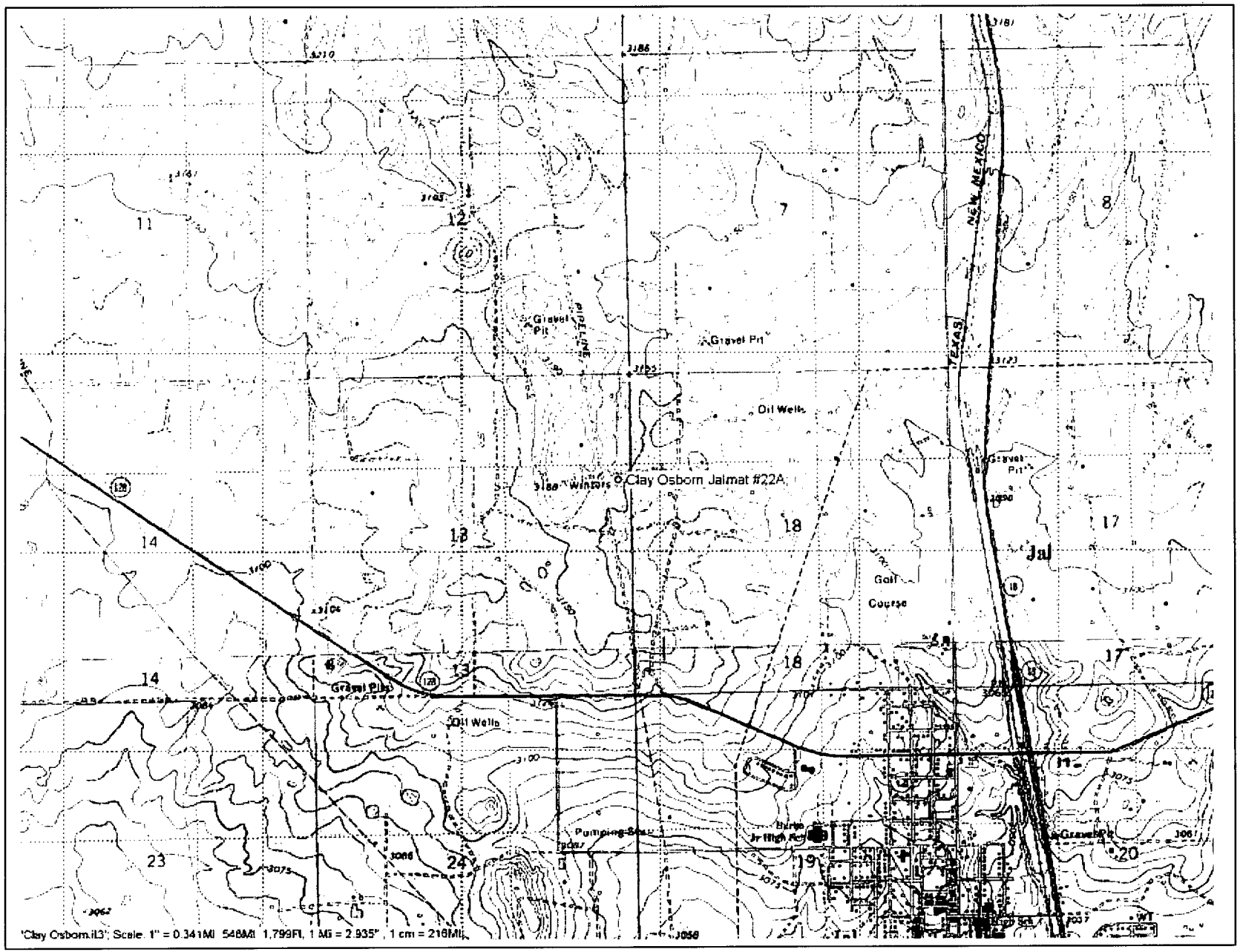

E.O.T.T. Energy Pipeline
Clay Osborn Jalmat 22A
Btex Delineation
60.000
50.000
40.000
30.000
20.000
10.000
0.000
(mg/Kg)
2 5 10 15
(FT. BGS)
9
10
11
12
13
14
15
16
Borehole Number / Sampling Interval
BTEX mg/Kg
BTEX Threshold mg/Kg

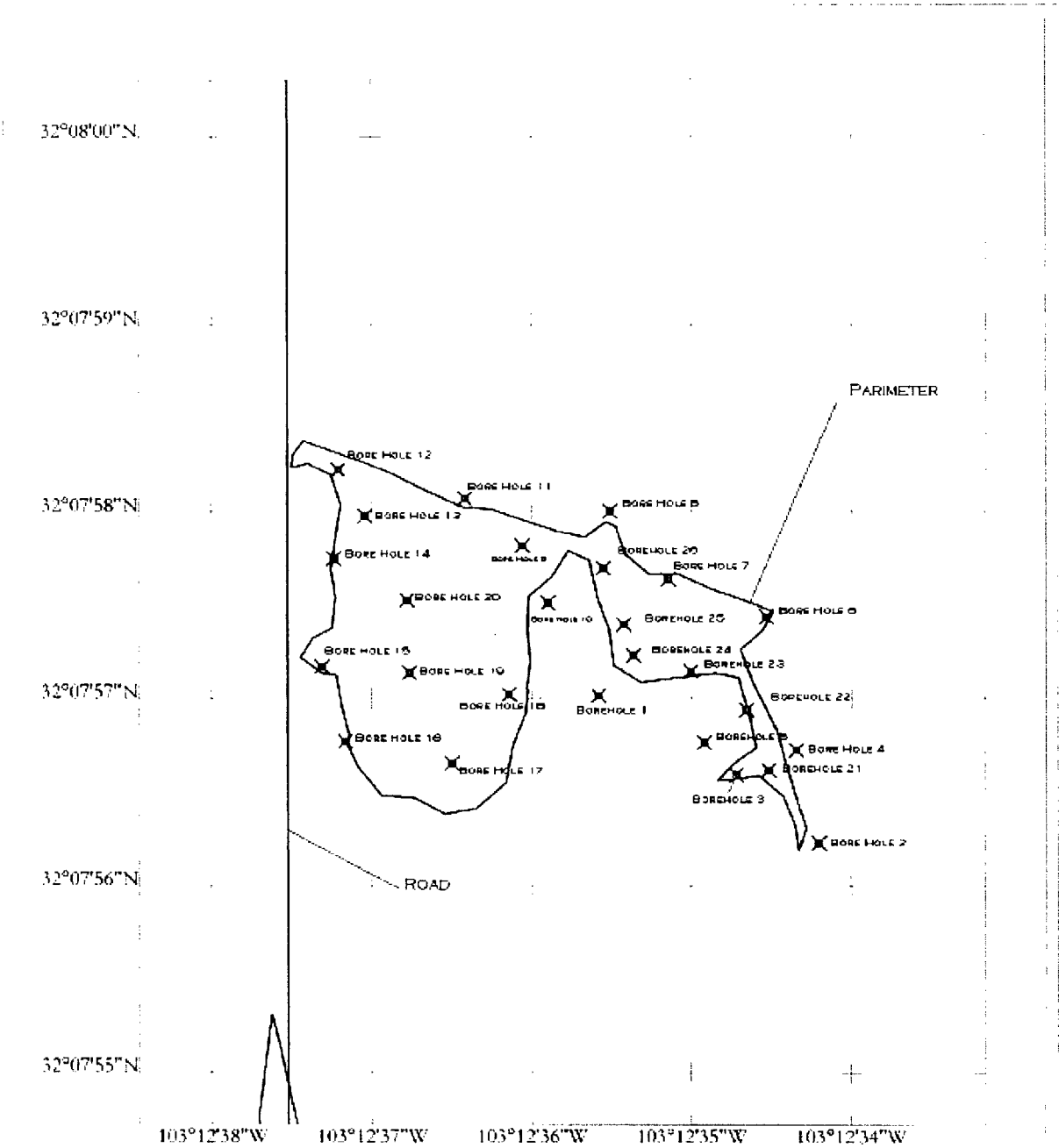

E.O.T.T. Energy Pipeline
Clay Osborn Jalmat 22A
BTEX Delineation
60.000
50.000
40.000
30.000
20.000
10.000
0.000
(mg/Kg)
2 5 10 15
(FT. BGS)
17
18
19
20
21
22
23
24
25
26
Borehole Number / Sampling Interval
BTEX mg/Kg
BTEX Threshold mg/Kg

5.0 GROUND WATER INVESTIGATION

The soil investigation did not warrant a ground water investigation at this site.

ATTACHMENT I: SITE MAPS


Clay Osborn Jalmat #22A
Gravel Pit
Oil Wells
Golf Course
Jal
NEW MEXICO
TEXAS
Pumping Station
'Clay Osborn.il3', Scale: 1" = 0.341MI 548MI 1,799Ft, 1 MI = 2.935", 1 cm = 216MI



Clay Osborn Jalmat 22A

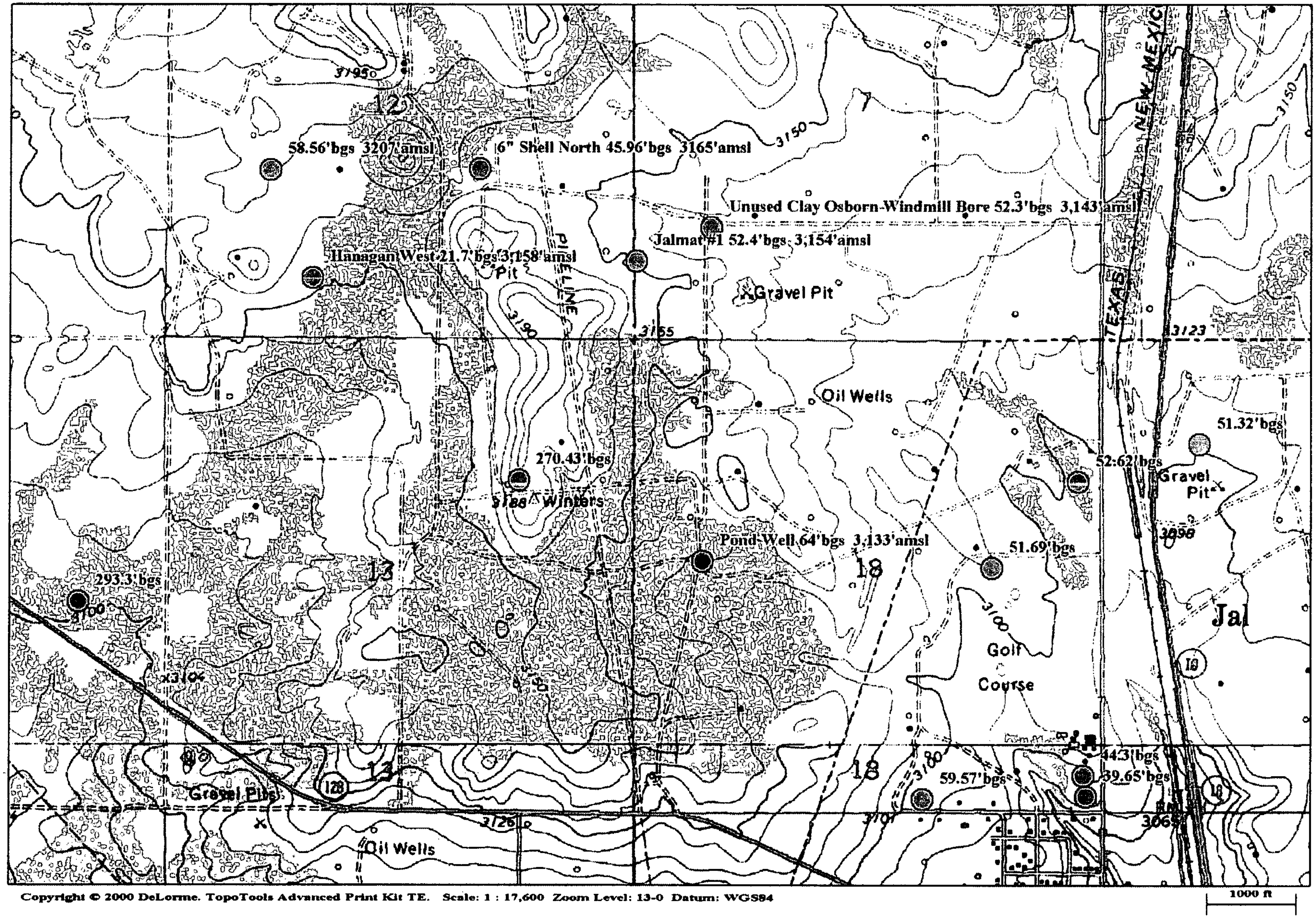
Lat/Long
WGS 1984

N

Scale 1:1,000
0 0.020
Miles

Multiple Files
11/10/2001
GPS Pathfinder® Office
Trimble.

ATTACHMENT II: AVERAGE DEPTH TO GROUND WATER REPORTS AND WELL MAP



 Scale: 1 : 17,600 Zoom Level: 13-0 Datum: WGS84

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 25S Range: 36E Sections: 12,13,1,2,11,14,23,24

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 12/29/2001

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet) Min	Max	Avg

No Records found, try again

New Mexico Office of the State Engineer

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 25S Range: 37E Sections: 7,6,5,8,18,17,20,19

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 12/29/2001

							(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
CP	25S	37E	19				9	27	63	44
CP	25S	37E	20				6	23	60	34

Record Count: 15

http://164.64.214.10/awdProd/awd.html?email_address=enviplus1@aol.com&tws=25S&r... 12/29/2001

ATTACHMENT III: ORIGINAL ANALYTICAL REPORTS AND SUMMARIES

E.O.T.T. Energy Pipeline Clay Osborn Jalmat 22A

Borehole	Sampling Interval (FT. BGS[1])	SAMPLE ID#	Date	Lithology	HEADSPACE VOC[2] (ppm)	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
1	2	ECO22AGP1-02	7/27/2000	Sand	N/A	10	10	*20.000*	0.515	0.100	0.115	0.100	0.100	0.100
	5	ECO22AGP1-05	7/27/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP1-10	7/27/2000	Sand	N/A	10	10	*20.000*	0.521	0.100	0.121	0.100	0.100	0.100
	15	ECO22AGP1-15	7/27/2000	Sand	N/A	10	10	*20.000*	0.553	0.100	0.153	0.100	0.100	0.100
2	2	ECO22AGP2-02	7/27/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP2-05	7/27/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP2-10	7/27/2000	Sand	N/A	10	10	*20.000*	0.530	0.100	0.130	0.100	0.100	0.100
	15	ECO22AGP2-15	7/27/2000	Sand	N/A	10	10	*20.000*	0.543	0.100	0.143	0.100	0.100	0.100
3	2	ECO22AGP3-02	7/27/2000	Sand	N/A	50	2493	**2543.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP3-05	7/27/2000	Sand	N/A	50	957	**1007.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP3-10	7/27/2000	Sand	N/A	10	57	67.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP3-15	7/27/2000	Sand	N/A	10	74	84.000	*0.500*	0.100	0.100	0.100	0.100	0.100
4	2	ECO22AGP4-02	7/28/2000	Sand	N/A	10	151	161.000	*0.500*	0.100	0.100	0.100	0.100	0.100
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	10	ECO22AGP4-10	7/28/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP4-15	7/28/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
5	2	ECO22AGP5-02	7/28/2000	Sand	N/A	10	1520	**1530.000**	0.579	0.100	0.179	0.100	0.100	0.100
	5	ECO22AGP5-05	7/28/2000	Sand	N/A	10	114	124.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP5-10	7/28/2000	Sand	N/A	10	65	75.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP5-15	7/28/2000	Sand	N/A	10	11	21.000	*0.500*	0.100	0.100	0.100	0.100	0.100
6	2	ECO22AGP6-02	7/28/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP6-05	7/28/2000	Sand	N/A	10	10	*20.000*	0.508	0.100	0.100	0.108	0.100	0.100
	10	ECO22AGP6-10	7/28/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP6-15	7/28/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
7	2	ECO22AGP7-02	7/28/2000	Sand	N/A	10	10	*20.000*	0.514	0.100	0.111	0.103	0.100	0.100
	5	ECO22AGP7-05	7/28/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP7-10	7/28/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP7-15	7/28/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
8	2	ECO22AGP8-02	7/28/2000	Sand	N/A	10	976	986.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP8-05	7/28/2000	Sand	N/A	50	4898	**4948.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP8-10	7/28/2000	Sand	N/A	10	102	112.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP8-15	7/28/2000	Sand	N/A	10	451	461.000	*0.500*	0.100	0.100	0.100	0.100	0.100

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics C_6-C_{10}

[4]DRO-Diesel Range Organics C_{10}-C_{28}

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Clay Osborn Jalmat 22A

Borehole	Sampling Interval (FT. BGS[1])	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC[2] (ppm)	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg
9	2	ECO22AGP9-02	7/28/2000	Sand	N/A	50	3970	**4020.000**	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP9-05	7/28/2000	Sand	N/A	10	170	180.000	*0.500*	0.100	0.100	0.100	0.100
	10	ECO22AGP9-10	7/28/2000	Sand	N/A	10	56	66.000	*0.500*	0.100	0.100	0.100	0.100
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	5	ECO22AGP10-05	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	10	ECO22AGP10-10	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	15	ECO22AGP10-15	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
11	2	ECO22AGP11-02	7/31/2000	Sand	N/A	10	19	29.000	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP11-05	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	10	ECO22AGP11-10	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	15	ECO22AGP11-15	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
12	2	ECO22AGP12-02	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP12-05	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	10	ECO22AGP12-10	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	15	ECO22AGP12-15	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
13	2	ECO22AGP13-02	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP13-05	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	10	ECO22AGP13-10	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	15	ECO22AGP13-15	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
14	2	ECO22AGP14-02	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP14-05	7/31/2000	Sand	N/A	10	21	31.000	*0.500*	0.100	0.100	0.100	0.100
	10	ECO22AGP14-10	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	15	ECO22AGP14-15	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
15	2	ECO22AGP15-02	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP15-05	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	10	ECO22AGP15-10	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
	15	ECO22AGP15-15	7/31/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100
16	2	ECO22AGP16-02	8/1/2000	Sand	N/A	10	484	494.000	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP16-05	8/1/2000	Sand	N/A	10	85	95.000	0.586	0.100	0.117	0.153	0.116
	10	ECO22AGP16-10	8/1/2000	Sand	N/A	10	24	34.000	*0.500*	0.100	0.100	0.100	0.100
	15	ECO22AGP16-15	8/1/2000	Sand	N/A	10	24	34.000	*0.500*	0.100	0.100	0.100	0.100

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics C_6-C_{10}

[4]DRO-Diesel Range Organics C_{10}-C_{28}

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Clay Osborn Jalmat 22A

Borehole	Sampling Interval (FT. BGS[1])	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC[2] (ppm)	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg	o-Xylene mg/Kg
17	2	ECO22AGP17-02	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP17-05	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP17-10	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP17-15	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
18	2	ECO22AGP18-02	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP18-05	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP18-10	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP18-15	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
19	2	ECO22AGP19-02	8/1/2000	Sand	N/A	50	50	100.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP19-05	8/1/2000	Sand	N/A	10	14	24.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP19-10	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP19-15	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
20	2	ECO22AGP20-02	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP20-05	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP20-10	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP20-15	8/1/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
21	2	ECO22AGP21-02	8/2/2000	Sand	N/A	10	98	108.000	0.588	0.100	0.188	0.100	0.100	0.100
	5	ECO22AGP21-05	8/2/2000	Sand	N/A	50	5240	**5290.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP21-10	8/2/2000	Sand	N/A	10	87	97.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP21-15	8/2/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
22	2	ECO22AGP22-02	8/2/2000	Sand	N/A	50	4098	**4148.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP22-05	8/2/2000	Sand	N/A	10	357	367.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP22-10	8/2/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP22-15	8/2/2000	Sand	N/A	10	10	*20.000*	*0.500*	0.100	0.100	0.100	0.100	0.100
23	2	ECO22AGP23-02	8/2/2000	Sand	N/A	92	4052	**4144.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP23-05	8/2/2000	Sand	N/A	161	2040	**2201.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP23-10	8/2/2000	Sand	N/A	10	30	40.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP23-15	8/2/2000	Sand	N/A	10	168	178.000	*0.500*	0.100	0.100	0.100	0.100	0.100
24	2	ECO22AGP24-02	8/3/2000	Sand	N/A	74	7823	**7897.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	5	ECO22AGP24-05	8/3/2000	Sand	N/A	135	2678	**2813.000**	*0.500*	0.100	0.100	0.100	0.100	0.100
	10	ECO22AGP24-10	8/3/2000	Sand	N/A	10	202	212.000	*0.500*	0.100	0.100	0.100	0.100	0.100
	15	ECO22AGP24-15	8/3/2000	Sand	N/A	10	109	119.000	*0.500*	0.100	0.100	0.100	0.100	0.100

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics C_6-C_{10}

[4]DRO-Diesel Range Organics C_{10}-C_{28}

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Clay Osborn Jalmat 22A

Borehole	Sampling Interval (FT. BGS[1])	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC[2] (ppm)	GRO[3] mg/Kg	DRO[4] mg/Kg	TPH[5] mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ehtyl Benzene mg/Kg	m,p-Xylene mg/Kg
25	2	ECO22AGP25-02	8/3/2000	Sand	N/A	50	3980	**4030.000**	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP25-05	8/3/2000	Sand	N/A	120	2621	**2741.000**	*0.500*	0.100	0.100	0.100	0.100
	10	ECO22AGP25-10	8/3/2000	Sand	N/A	331	4040	**4371.000**	0.599	0.100	0.100	0.100	0.143
	15	ECO22AGP25-15	8/3/2000	Sand	N/A	10	208	218.000	*0.500*	0.100	0.100	0.100	0.100
26	2	ECO22AGP26-02	8/3/2000	Sand	N/A	214	6346	**6560.000**	*0.500*	0.100	0.100	0.100	0.100
	5	ECO22AGP26-05	8/3/2000	Sand	N/A	543	2947	**3490.000**	8.155	0.100	0.645	1.040	3.480
	10	ECO22AGP26-10	8/3/2000	Sand	N/A	15	348	363.000	4.201	0.100	0.934	0.505	1.820
	15	ECO22AGP26-15	8/3/2000	Sand	N/A	10	28	38.000	*0.500*	0.100	0.100	0.100	0.100

[1]bgs – below ground surface

[2]VOC–Volatile Organic Contaminants/Constituents

[3]GRO-Gasoline Range Organics C_6-C_{10}

[4]DRO-Diesel Range Organics C_{10}-C_{28}

[5]TPH-Total Petroleum Hydrocarbon = GRO+DRO.

[6]Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

[7]Italicized values are < the instrument detection limit.

[8]N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: See Below
Receiving Date: 08/03/00
Analysis Date: 08/03/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE
28804	ECO22AGP1-02	<10	<10	07/27/00
28805	ECO22AGP1-05	<10	<10	07/27/00
28806	ECO22AGP1-10	<10	<10	07/27/00
28807	ECO22AGP1-15	<10	<10	07/27/00
28808	ECO22AGP2-02	<10	<10	07/27/00
28809	ECO22AGP2-05	<10	<10	07/27/00
28810	ECO22AGP2-10	<10	<10	07/27/00
28811	ECO22AGP2-15	<10	<10	07/27/00
28812	ECO22AGP3-02	<50	2493	07/27/00
28813	ECO22AGP3-05	<50	957	07/27/00
28814	ECO22AGP3-10	<10	57	07/27/00
28815	ECO22AGP3-15	<10	74	07/27/00
28816	ECO22AGP4-02	<10	151	07/28/00
28817	ECO22AGP4-05	<10	<10	07/28/00
28818	ECO22AGP4-10	<10	<10	07/28/00
28819	ECO22AGP4-15	<10	<10	07/28/00
28820	ECO22AGP5-02	<10	1520	07/28/00
28821	ECO22AGP5-05	<10	114	07/28/00
28822	ECO22AGP5-10	<10	65	07/28/00
28823	ECO22AGP5-15	<10	11	07/28/00
28824	ECO22AGP6-02	<10	<10	07/28/00
28825	ECO22AGP6-05	<10	<10	07/28/00
28826	ECO22AGP6-10	<10	<10	07/28/00
28827	ECO22AGP6-15	<10	<10	07/28/00
	% IA	95	109	
	% EA	107	124	
	BLANK	<10	<10	

METHODS: SW 846-8015M

Raland K. Tuttle

8-10-00
Date

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ENVIRONMENTAL LAB OF , INC.

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EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: See Below
Receiving Date: 08/03/00
Analysis Date: 08/04/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE
28828	ECO22AGP7-02	<10	<10	07/28/00
28829	ECO22AGP7-05	<10	<10	07/28/00
28830	ECO22AGP7-10	<10	<10	07/28/00
28831	ECO22AGP7-15	<10	<10	07/28/00
28832	ECO22AGP8-02	<10	976	07/28/00
28833	ECO22AGP8-05	<50	4898	07/28/00
28834	ECO22AGP8-10	<10	102	07/28/00
28835	ECO22AGP8-15	<10	451	07/28/00
28836	ECO22AGP9-02	<50	3970	07/28/00
28837	ECO22AGP9-05	<10	170	07/28/00
28838	ECO22AGP9-10	<10	56	07/28/00
28839	ECO22AGP9-15	<10	70	07/28/00
28840	ECO22AGP10-02	<10	<10	07/31/00
28841	ECO22AGP10-05	<10	<10	07/31/00
28842	ECO22AGP10-10	<10	<10	07/31/00
	% IA	85	99	
	% EA	107	124	
	BLANK	<10	<10	

METHODS: SW 846-8015M

Raland K. Tuttle

8-10-00
Date

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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: 07/31/00
Receiving Date: 08/03/00
Analysis Date: 08/05/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
28843	ECO22AGP10-15	<10	<10
28844	ECO22AGP11-02	<10	19
28845	ECO22AGP11-05	<10	<10
28846	ECO22AGP11-10	<10	<10
28847	ECO22AGP11-15	<10	<10
28848	ECO22AGP12-02	<10	<10
28849	ECO22AGP12-05	<10	<10
28850	ECO22AGP12-10	<10	<10
28851	ECO22AGP12-15	<10	<10
28852	ECO22AGP13-02	<10	<10
28853	ECO22AGP13-05	<10	<10
28854	ECO22AGP13-10	<10	<10
28855	ECO22AGP13-15	<10	<10
28856	ECO22AGP14-02	<10	<10
28857	ECO22AGP14-05	<10	21
28858	ECO22AGP14-10	<10	<10
28859	ECO22AGP14-15	<10	<10
28860	ECO22AGP15-02	<10	<10
28861	ECO22AGP15-05	<10	<10
28862	ECO22AGP15-10	<10	<10
	% IA	98	108
	% EA	82	83
	BLANK	<10	<10

METHODS: SW 846-8015M

Raland K. Tuttle

8-10-00
Date

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P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: See Below
Receiving Date: 08/03/00
Analysis Date: 08/05/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE
28863	ECO22AGP15-15	<10	<10	07/31/00
28864	ECO22AGP16-02	<10	484	08/01/00
28865	ECO22AGP16-05	<10	85	08/01/00
28866	ECO22AGP16-10	<10	24	08/01/00
28867	ECO22AGP16-15	<10	24	08/01/00
28868	ECO22AGP17-02	<10	<10	08/01/00
28869	ECO22AGP17-05	<10	<10	08/01/00
28870	ECO22AGP17-10	<10	<10	08/01/00
28871	ECO22AGP17-15	<10	<10	08/01/00
28872	ECO22AGP18-02	<10	<10	08/01/00
28873	ECO22AGP18-05	<10	<10	08/01/00
28874	ECO22AGP18-10	<10	<10	08/01/00
28875	ECO22AGP18-15	<10	<10	08/01/00
28876	ECO22AGP19-02	<50	<50	08/01/00
28877	ECO22AGP19-05	<10	14	08/01/00
28878	ECO22AGP19-10	<10	<10	08/01/00
28879	ECO22AGP19-15	<10	<10	08/01/00
28880	ECO22AGP20-02	<10	<10	08/01/00
28881	ECO22AGP20-05	<10	<10	08/01/00
28882	ECO22AGP20-10	<10	<10	08/01/00
28883	ECO22AGP20-15	<10	<10	08/01/00
	% IA	98	108	
	% EA	88	86	
	BLANK	<10	<10	

METHODS: SW 846-8015M

Raland K. Tuttle

8-10-00
Date

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EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: See Below
Receiving Date: 08/03/00
Analysis Date: 08/05/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE
28884	ECO22AGP21-02	<10	98	08/02/00
28885	ECO22AGP21-05	<50	5240	08/02/00
28886	ECO22AGP21-10	<10	87	08/02/00
28887	ECO22AGP21-15	<10	<10	08/02/00
28888	ECO22AGP22-02	<50	4098	08/02/00
28889	ECO22AGP22-05	<10	357	08/02/00
28890	ECO22AGP22-10	<10	<10	08/02/00
28891	ECO22AGP22-15	<10	<10	08/02/00
28892	ECO22AGP23-02	92	4052	08/02/00
28893	ECO22AGP23-05	161	2040	08/02/00
28894	ECO22AGP23-10	<10	30	08/02/00
28895	ECO22AGP23-15	<10	168	08/02/00
28896	ECO22AGP24-02	74	7823	08/03/00
28897	ECO22AGP24-05	135	2678	08/03/00
28898	ECO22AGP24-10	<10	202	08/03/00
28899	ECO22AGP24-15	<10	109	08/03/00
28900	ECO22AGP25-02	<50	3980	08/03/00
28901	ECO22AGP25-05	120	2612	08/03/00
28902	ECO22AGP25-10	331	4040	08/03/00
28903	ECO22AGP25-15	<10	208	08/03/00
28904	ECO22AGP26-02	214	6346	08/03/00
28905	ECO22AGP26-05	543	2947	08/03/00
28906	ECO22AGP26-10	15	348	08/03/00
28907	ECO22AGP26-15	<10	28	08/03/00
	% IA	95	98	
	% EA	88	86	
	BLANK	<10	<10	

METHODS: SW 846-8015M

Raland K. Tuttle

8-10-00
Date

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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: See Below
Receiving Date: 08/03/00
Analysis Date: 08/03/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
28804	ECO22AGP1-02	<0.100	0.115	<0.100	<0.100	<0.100	07/27/00
28805	ECO22AGP1-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/27/00
28806	ECO22AGP1-10	<0.100	0.121	<0.100	<0.100	<0.100	07/27/00
28807	ECO22AGP1-15	<0.100	0.153	<0.100	<0.100	<0.100	07/27/00
28808	ECO22AGP2-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/27/00
28809	ECO22AGP2-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/27/00
28810	ECO22AGP2-10	<0.100	0.130	<0.100	<0.100	<0.100	07/27/00
28811	ECO22AGP2-15	<0.100	0.143	<0.100	<0.100	<0.100	07/27/00
28812	ECO22AGP3-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/27/00
28813	ECO22AGP3-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/27/00
28814	ECO22AGP3-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/27/00
28815	ECO22AGP3-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/27/00
28816	ECO22AGP4-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28817	ECO22AGP4-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28818	ECO22AGP4-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28819	ECO22AGP4-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28820	ECO22AGP5-02	<0.100	0.179	<0.100	<0.100	<0.100	07/28/00
28821	ECO22AGP5-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28822	ECO22AGP5-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28823	ECO22AGP5-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
	% IA	93	88	90	99	90	
	% EA	89	90	89	100	91	
	BLANK	<0.100	<0.100	<0.100	<0.100	<0.100	

METHODS: SW 846-8021B,5030

Raland K. Tuttle

8-10-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: See Below
Receiving Date: 08/03/00
Analysis Date: 08/04/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
28824	ECO22AGP6-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28825	ECO22AGP6-05	<0.100	<0.100	0.108	<0.100	<0.100	07/28/00
28826	ECO22AGP6-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28827	ECO22AGP6-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28828	ECO22AGP7-02	<0.100	0.111	0.103	<0.100	<0.100	07/28/00
28829	ECO22AGP7-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28830	ECO22AGP7-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28831	ECO22AGP7-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28832	ECO22AGP8-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28833	ECO22AGP8-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28834	ECO22AGP8-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28835	ECO22AGP8-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28836	ECO22AGP9-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28837	ECO22AGP9-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28838	ECO22AGP9-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/28/00
28839	ECO22AGP9-15	<0.100	<0.100	0.102	<0.100	<0.100	07/28/00
28840	ECO22AGP10-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/31/00
28841	ECO22AGP10-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/31/00
28842	ECO22AGP10-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/31/00
	% IA	92	89	89	98	89	
	% EA	89	88	89	100	91	
	BLANK	<0.100	<0.100	<0.100	<0.100	<0.100	

METHODS: SW 846-8021B,5030

Raland K. Tuttle

8-10-00
Date

12600 West I-20 East • Odessa, Texas 79765 • (915) 563-1800 • Fax (915) 563-1713

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: 07/31/00
Receiving Date: 08/03/00
Analysis Date: 08/05/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
28843	ECO22AGP10-15	<0.100	<0.100	<0.100	<0.100	<0.100
28844	ECO22AGP11-02	<0.100	<0.100	<0.100	<0.100	<0.100
28845	ECO22AGP11-05	<0.100	<0.100	<0.100	<0.100	<0.100
28846	ECO22AGP11-10	<0.100	<0.100	<0.100	<0.100	<0.100
28847	ECO22AGP11-15	<0.100	<0.100	<0.100	<0.100	<0.100
28848	ECO22AGP12-02	<0.100	<0.100	<0.100	<0.100	<0.100
28849	ECO22AGP12-05	<0.100	<0.100	<0.100	<0.100	<0.100
28850	ECO22AGP12-10	<0.100	<0.100	<0.100	<0.100	<0.100
28851	ECO22AGP12-15	<0.100	<0.100	<0.100	<0.100	<0.100
28852	ECO22AGP13-02	<0.100	<0.100	<0.100	<0.100	<0.100
28853	ECO22AGP13-05	<0.100	<0.100	<0.100	<0.100	<0.100
28854	ECO22AGP13-10	<0.100	<0.100	<0.100	<0.100	<0.100
28855	ECO22AGP13-15	<0.100	<0.100	<0.100	<0.100	<0.100
28856	ECO22AGP14-02	<0.100	<0.100	<0.100	<0.100	<0.100
28857	ECO22AGP14-05	<0.100	<0.100	<0.100	<0.100	<0.100
28858	ECO22AGP14-10	<0.100	<0.100	<0.100	<0.100	<0.100
28859	ECO22AGP14-15	<0.100	<0.100	<0.100	<0.100	<0.100
28860	ECO22AGP15-02	<0.100	<0.100	<0.100	<0.100	<0.100
28861	ECO22AGP15-05	<0.100	<0.100	<0.100	<0.100	<0.100
28862	ECO22AGP15-10	<0.100	<0.100	<0.100	<0.100	<0.100
	% IA	92	87	90	98	89
	% EA	91	88	89	100	90
	BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B,5030

Raland K. Tuttle

Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: See Below
Receiving Date: 08/03/00
Analysis Date: 08/06/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
28863	ECO22AGP15-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/31/00
28864	ECO22AGP16-02	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28865	ECO22AGP16-05	<0.100	0.117	0.153	0.116	<0.100	08/01/00
28866	ECO22AGP16-10	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28867	ECO22AGP16-15	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28868	ECO22AGP17-02	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28869	ECO22AGP17-05	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28870	ECO22AGP17-10	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28871	ECO22AGP17-15	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28872	ECO22AGP18-02	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28873	ECO22AGP18-05	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28874	ECO22AGP18-10	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28875	ECO22AGP18-15	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28876	ECO22AGP19-02	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28877	ECO22AGP19-05	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28878	ECO22AGP19-10	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28879	ECO22AGP19-15	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28880	ECO22AGP20-02	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28881	ECO22AGP20-05	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28882	ECO22AGP20-10	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
	% IA	97	93	93	105	93	
	% EA	91	91	89	100	91	
	BLANK	<0.100	<0.100	<0.100	<0.100	<0.100	

METHODS: SW 846-8021B,5030

Raland K Tuttle
Raland K. Tuttle

8-10-00
Date

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ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: See Below
Receiving Date: 08/03/00
Analysis Date: 08/07/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
28883	ECO22AGP20-15	<0.100	<0.100	<0.100	<0.100	<0.100	08/01/00
28884	ECO22AGP21-02	<0.100	0.188	<0.100	<0.100	<0.100	08/02/00
28885	ECO22AGP21-05	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28886	ECO22AGP21-10	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28887	ECO22AGP21-15	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28888	ECO22AGP22-02	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28889	ECO22AGP22-05	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28890	ECO22AGP22-10	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28891	ECO22AGP22-15	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28892	ECO22AGP23-02	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28893	ECO22AGP23-05	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28894	ECO22AGP23-10	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00
28895	ECO22AGP23-15	<0.100	<0.100	<0.100	<0.100	<0.100	08/02/00

% IA	98	94	93	104	95
% EA	92	92	90	102	92
BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B,5030

Raland K. Tuttle

8-10-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 42 deg. F
Project #: None Given
Project Name: Clay Osborn Site 22A
Project Location: None Given

Sampling Date: 08/03/00
Receiving Date: 08/03/00
Analysis Date: 08/08/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
28896	ECO22AGP24-02	<0.100	<0.100	<0.100	<0.100	<0.100
28897	ECO22AGP24-05	<0.100	<0.100	<0.100	<0.100	<0.100
28898	ECO22AGP24-10	<0.100	<0.100	<0.100	<0.100	<0.100
28899	ECO22AGP24-15	<0.100	<0.100	<0.100	<0.100	<0.100
28900	ECO22AGP25-02	<0.100	<0.100	<0.100	<0.100	<0.100
28901	ECO22AGP25-05	<0.100	<0.100	<0.100	<0.100	<0.100
28902	ECO22AGP25-10	<0.100	<0.100	<0.100	0.143	0.156
28903	ECO22AGP25-15	<0.100	<0.100	<0.100	<0.100	<0.100
28904	ECO22AGP26-02	<0.100	<0.100	<0.100	<0.100	<0.100
28905	ECO22AGP26-05	<0.100	0.645	1.04	3.48	2.89
28906	ECO22AGP26-10	<0.100	0.934	0.505	1.82	0.842
28907	ECO22AGP26-15	<0.100	<0.100	<0.100	<0.100	<0.100
% IA		94	93	89	106	93
% EA		88	87	85	95	87
BLANK		<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B,5030

Raland K Tuttle
Raland K. Tuttle

8-10-00
Date

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[redacted] Environmental Lab of [redacted] Texas, Inc [redacted] 600 [redacted] I-20 [redacted] Odessa [redacted]
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Wayne Brunette
Phone #: 915-556-0190
FAX #: 915-684-3456

Company Name & Address: Eott
Project Name: CLAY Osborn Site 22A
Project #:
Project Location:
Sampler Signature: Brett Clay

ANALYSIS REQUEST

1 of 10

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	HONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH [redacted] 8015	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28804	ECO 22AGP 1-02	1			X						X			7-27-00	8:00	X	X						
28805	ECO 22AGP 1-05	1			X						X				8:30	X	X						
28806	ECO 22AGP 1-10	1			X						X				9:00	X	X						
28807	ECO 22AGP 1-15	1			X						X				9:30	X	X						
28808	ECO 22AGP 2-02	1			X						X				10:00	X	X						
28809	ECO 22AGP 2-05	1			X						X				10:30	X	X						
28810	ECO 22AGP 2-10	1			X						X				11:00	X	X						
28811	ECO 22AGP 2-15	1			X						X				11:30	X	X						
28812	ECO 22AGP 3-02	1			X						X				12:00	X	X						
28813	ECO 22AGP 3-05	1			X						X				1:30	X	X						
28814	ECO 22AGP 3-10	1			X						X			7-27-00	2:00	X	X						

Relinquished by:	Date:	Time:	Received by:
Brett Clay	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	[illegible]
			Received by Laboratory:

REMARKS
Rec 42°F

E[redacted]ro[redacted]ment[redacted] L[redacted] of [redacted] 12600 [redacted]
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

2 of 10

Project Manager: Wayne Brunette

Phone #: 915-556-0190

FAX #: 915-684-3456

Company Name & Address: Eott

Project Name: CLAY Osborn Site 22A

Project #:

Project Location:

Sampler Signature: Brett Clay

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	MATRIX: OTHER	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8020/5030	TPH [redacted] 80.15	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28815	ECO 22 AGP 3-15	1			X						X			7-27-00	230	X	X						
28816	ECO 22 AGP 4-02	1			X						X			7-28-00	800	X	X						
28817	ECO 22 AGP 4-05	1			X						X				820	X	X						
28818	ECO 22 AGP 4-10	1			X						X				840	X	X						
28819	ECO 22 AGP 4-15	1			X						X				900	X	X						
28820	ECO 22 AGP 5-02	1			X						X				930	X	X						
28821	ECO 22 AGP 5-05	1			X						X				950	X	X						
28822	ECO 22 AGP 5-10	1			X						X				1010	X	X						
28823	ECO 22 AGP 5-15	1			X						X				1030	X	X						
28824	ECO 22 AGP 6-02	1			X						X				1100	X	X						
28825	ECO 22 AGP 6-05	1			X						X			7-28-00	1120	X	X						

Relinquished by:	Date:	Time:	Received by:
Brett Clay	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	J McMurrey
			Received by Laboratory:

REMARKS

Rec. 42°F

[redacted] Environmental Lab of [redacted] Texas

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Wayne Brunette

Phone #: 915-556-0190

FAX #: 915-684-3456

Company Name & Address: Eott

Project Name: CLAY Osborn Site 22A

Project #:

Project Location:

Sampler Signature: Brett Clay

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	HONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH [redacted] 8015	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28826	ECO 22 AGP 6-10	1			X						X				1140	X	X						
28827	ECO 22 AGP 6-15	1			X						X			8/3	1200	X	X						
28828	ECO 22 AGP 7-02	1			X						X			8/3	1100	X	X						
28829	ECO 22 AGP 7-05	1			X						X			8/3	1120	X	X						
28830	ECO 22 AGP 7-10	1			X						X			8/3	1140	X	X						
28831	ECO 22 AGP 7-15	1			X						X			8/3	1200	X	X						
28832	ECO 22 AGP 8-02	1			X						X			8/3	1230	X	X						
28833	ECO 22 AGP 8-05	1			X						X			8/3	1250	X	X						
28834	ECO 22 AGP 8-10	1			X						X			8/3	1310	X	X						
28835	ECO 22 AGP 8-15	1			X						X			8/3	1330	X	X						
28836	ECO 22 AGP 9-02	1			X						X			8/3	1350	X	X						

Relinquished by:	Date:	Time:	Received by:
Brett Clay	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	[illegible]
			Received by Laboratory:

REMARKS

Rec 42°F

Environmental Lab of Texas, Inc

2600 W I-20 Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Wayne Brunette
Phone #: 915-556-0190
FAX #: 915-684-3456

Company Name & Address: Eott
Project Name: CLAY Osborn Site 22A
Project #:
Project Location:
Sampler Signature: Brett Clay

ANALYSIS REQUEST

4 of 10

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH [redacted] 80.15	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
26837	ECO 22AGP 9-05	1			X						X			7-28-00	410	X	X						
26838	ECO 22 AGP 9-10	1			X						X			7-28-00	430	X	X						
26839	ECO 22 AGP 9-15	1			X						X			7-28-00	450	X	X						
26840	ECO 22 AGP 10-02	1			X						X			7-31-00	800	X	X						
26841	ECO 22 AGP 10-05	1			X						X					X	X						
26842	ECO 22 AGP 10-10	1			X						X					X	X						
26843	ECO 22 AGP 10-15	1			X						X					X	X						
26844	ECO 22 AGP 11-02	1			X						X					X	X						
26845	ECO 22 AGP 11-05	1			X						X					X	X						
26846	ECO 22 AGP 11-10	1			X						X					X	X						
26847	ECO 22 AGP 11-15	1			X						X					X	X						

Relinquished by:	Date:	Time:	Received by:
Brett Clay	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	[illegible]
			Received by Laboratory:

REMARKS

Rec 42°F

Environmental Lab of Texas, Inc.

2600 I-20 Od Tex 763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Wayne Brunette
Phone #: 915-556-0190
FAX #: 915-684-3456

Company Name & Address: Eott

Project Name: CIA/ Osborn Site 22A

Project #:

Project Location:

Sampler Signature: Brett CIA/

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	T[illegible] 80.15	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28848	ECO22AGP 12-02	1			X						X				1015	X	X						
28849	ECO22AGP 12-05	1			X						X			8/1/00	1030	X	X						
28850	ECO22AGP 12-10	1			X						X				1045	X	X						
28851	ECO22AGP 12-15	1			X						X				1100	X	X						
28852	ECO22AGP 13-02	1			X						X				1115	X	X						
28853	ECO22AGP 13-05	1			X						X				1130	X	X						
28854	ECO22AGP 13-10	1			X						X				1145	X	X						
28855	ECO22AGP 13-15	1			X						X				1200	X	X						
28856	ECO22AGP 14-02	1			X						X				1215	X	X						
28857	ECO22AGP 14-05	1			X						X				1230	X	X						
28858	ECO22AGP 14-10	1			X						X				1245	X	X						

Relinquished by:	Date:	Time:	Received by:
Brett CIA/	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	[signature]
			Received by Laboratory:

REMARKS

Rec 42°F

Env[redacted] Lab [redacted] of [redacted], Inc. [redacted] 2600 W[redacted]I-20 [redacted] Od[redacted], Te[redacted]63
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Wayne Brunette

Phone #: 915-556-0190

FAX #: 915-684-3456

Company Name & Address: Eott

Project #:

Project Name: ClAY osborn Site 22A

Project Location:

Sampler Signature: Brett ClAY

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8020/5030	TPH 80.15	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28859	ECO22AGP 14-15	1			X						X			7-31-00	100	X	X						
28860	ECO22AGP 15-02	1			X						X			7-31-00	200	X	X						
28861	ECO22AGP 15-05	1			X						X			7-31-00	220	X	X						
28862	ECO22AGP 15-10	1			X						X			7-31-00	240	X	X						
28863	ECO22AGP 15-15	1			X						X			7-31-00	300	X	X						
28864	ECO22AGP 16-02	1			X						X			8-1-00	700	X	X						
28865	ECO22AGP 16-06	1			X						X			8-1-00	730	X	X						
28866	ECO22AGP 16-10	1			X						X			8-1-00	800	X	X						
2886[illegible]	ECO22AGP 16-15	1			X						X			8-1-00	830	X	X						
28866	ECO22AGP 17-02	1			X						X			8-1-00	850	X	X						
28869	ECO22AGP 17-05	1			X						X			8-1-00	910	X	X						

Relinquished by:	Date:	Time:	Received by:
Brett ClAY	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	g mcmurry
			Received by Laboratory:

REMARKS: Rec 42°F

[redacted] Environmental Lab of Texas, Inc. [redacted] 600 [redacted] I-20 [redacted] Odessa, Texas [redacted] 63
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Wayne Brunette
Phone #: 915-556-0190
FAX #: 915-684-3456

Company Name & Address: Eott
Project Name: Clay osborn Site 22 A
Project #:
Project Location:
Sampler Signature:

ANALYSIS REQUEST

6 of 10

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	HOLD	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH [redacted] 60.15	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28870	ECO22AGP 17-10	1			X						X			8-1-00	930	X	X						
28871	ECO22AGP 17-15	1			X						X				950	X	X						
28872	ECO22AGP 18-02	1			X						X				1010	X	X						
28873	ECO22AGP 18-05	1			X						X			"	1030	X	X						
28874	ECO22AGP 18-10	1			X						X			"	1050	X	X						
28875	ECO22AGP 18-15	1			X						X			"	1110	X	X						
28876	ECO22AGP 19-02	1			X						X			"	1130	X	X						
28877	ECO22AGP 19-05	1			X						X			"	1150	X	X						
28878	ECO22AGP 19-10	1			X						X			"	1210	X	X						
28879	ECO22AGP 19-15	1			X						X			"	1230	X	X						
28880	ECO22AGP 20-02	1			X						X			"	110	X	X						

Relinquished by:	Date:	Time:	Received by:
Brett Clay	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	[illegible]
			Received by Laboratory:

REMARKS

Rec 42°F

[redacted] Environmental Lab of Texa[redacted] 2600 [redacted] 1-20 [redacted] Od[redacted] Tex[redacted] 63
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

8 of 10

Project Manager: Wayne Brunette
Phone #: 915-556-0190
FAX #: 915-684-3456

Company Name & Address: Ecott
Project Name: CIAT Osborn Site 22A
Project #:

Project Location:
Sampler Signature: Brett CIAT

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	HOIE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH [redacted] 8015	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28881	EC022AGP 20-05	1			X						X			1:30	8-1-00	X	X						
28882	EC022AGP 20-10	1			X						X			1:50	8-1-00	X	X						
28883	EC022AGP 20-15	1			X						X			2:10	8-1-00	X	X						
28884	EC022AGP 21-02	1			X						X			8:00	8-2-00	X	X						
28885	EC022AGP 21-05	1			X						X			8:40	8-2-00	X	X						
28886	EC022AGP 21-10	1			X						X			9:20	8-2-00	X	X						
28887	EC022AGP 21-15	1			X						X			10:00	8-2-00	X	X						
28888	EC022AGP 22-02	1			X						X			10:40	8-2-00	X	X						
28889	EC022AGP 22-05	1			X						X			11:20	8-2-00	X	X						
28890	EC022AGP 22-10	1			X						X			12:00	8-2-00	X	X						
28891	EC022AGP 22-15	1			X						X			12:50	8-2-00	X	X						

Relinquished by:	Date:	Time:	Received by:
Brett CIAT	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	[illegible] mcmurry
			Received by Laboratory:

REMARKS

Rec 42°F

Environmental Lab of Texas, Inc. 12600 I-20 Od Tex 763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Wayne Bronette

Phone #: 915-656-0190

FAX #: 915-684-3456

Company Name & Address: EOTT

Project Name: CIAY Osborn Site 22A

Project #:

Project Location:

Sampler Signature: Brett Clay

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	HONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH 8015	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28892	ECO22AGP 23-02	1			X						X			8-2-00	1:30	X	X						
28893	ECO22AGP 23-05	1			X						X			8-2-00	2:10	X	X						
28894	ECO22AGP 23-10	1			X						X			8-2-00	2:50	X	X						
28895	ECO22AGP 23-15	1			X						X			8-2-00	3:30	X	X						
28896	ECO22AGP 24-02	1			X						X			8-3-00	8:00	X	X						
28897	ECO22AGP 24-05	1			X						X			8-3-00	840	X	X						
28898	ECO22AGP 24-10	1			X						X			8-3-00	920	X	X						
28899	ECO22AGP 24-15	1			X						X			8-3-00	1000	X	X						
28900	ECO22AGP 25-02	1			X						X			8-3-00	1040	X	X						
28901	ECO22AGP 25-05	1			X						X			8-3-00	1120	X	X						
28902	ECO22AGP 25-10	1			X						X			8-3-00	1200	X	X						

Relinquished by:	Date:	Time:	Received by:
Brett Clay	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	
			Received by Laboratory:

REMARKS

Rec 42°F

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

10 of 10

Project Manager: Wayne Burnette

Phone #: 915-550-0190

FAX #: 915-684-3456

Company Name & Address: Eott

Project #:

Project Name :

Project Location:

Sampler Signature: Britt Clay

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B/5030	TPH 8015	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
28903	ECO 22AGP 25-15	1			X						X			8-3-00	1230	X	X						
28904	ECO 22AGP 26-02	1			X						X			8-3-00	120	X	X						
28905	ECO 22AGP 26-05	1			X						X			8-3-00	200	X	X						
28906	ECO 22AGP 26-10	1			X						X			8-3-00	240	X	X						
28907	ECO 22AGP 26-15	1			X						X			8-3-00	320	X	X						
	~~ECO 22AGP~~	1			X						X					X	X						
	~~ECO 22AGP~~	1			X						X					X	X						
	~~ECO 22AGP~~	1			X						X					X	X						
	~~ECO 22AGP~~	1			X						X					X	X						

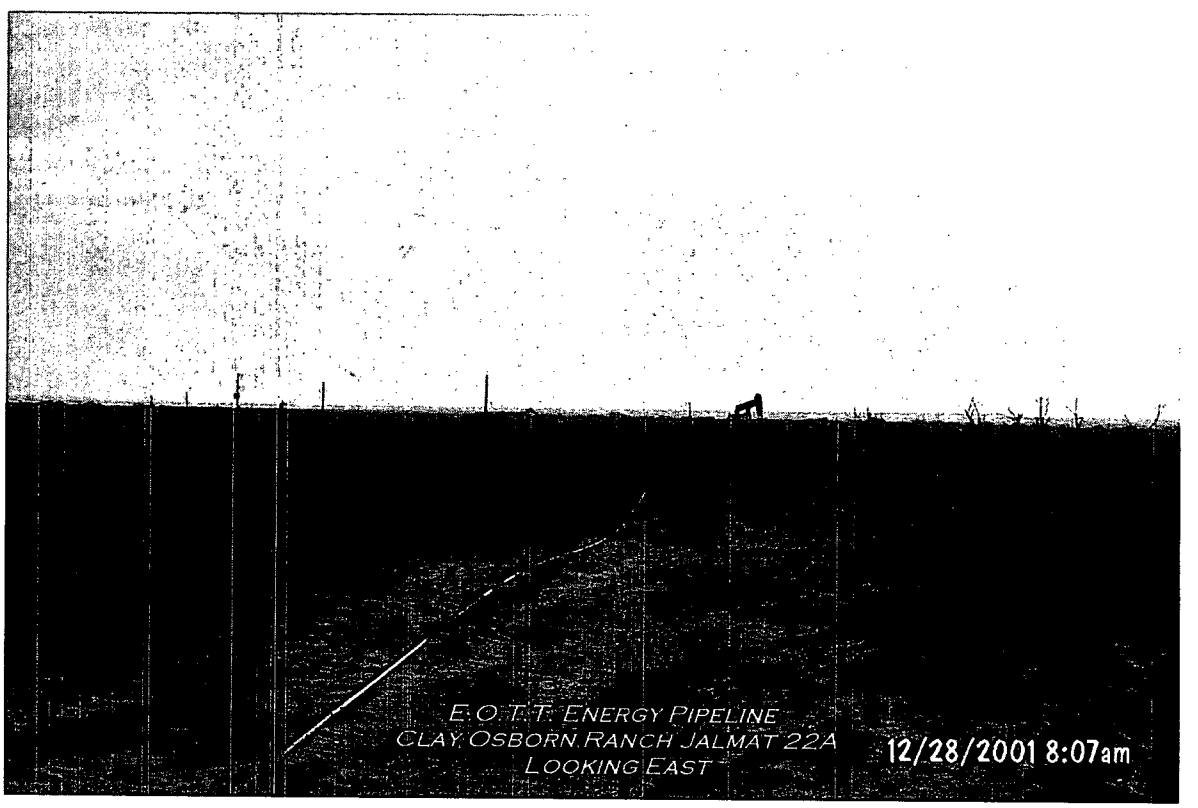
Relinquished by:	Date:	Time:	Received by:
Britt Clay	8-3-00	1:00	Roger Boone
Roger Boone	8-3-00	1550	[illegible]
			Received by Laboratory:

REMARKS

Rec 42°F

ATTACHMENT IV: PHOTOGRAPHS


E.O.T.T. ENERGY PIPELINE
CLAY OSBORN RANCH JALMAT 22A
LOOKING EAST
12/28/2001 8:07am


E.O.T.T. ENERGY PIPELINE
CLAY OSBORN RANCH JALMAT 22A
LOOKING EAST
12/28/2001 8:07am

ATTACHMENT V: SITE INFORMATION AND METRICS FORM

Site Information and Metrics

SITE: Clay Osborn Jalmat #22A	Assigned Site Reference #2000-10614
Company: EOTT Energy Pipeline	
Company Street Address: 5805 E. Highway 80, Midland, Texas 79701	
Company Mailing Address: P.O. Box 1660	
Company City, State, Zip: Midland, Texas 79702	
Company Representative: Wayne Brunette	
Company Representative Telephone: 915.553.7557	
Company Telephone: 915.684.3479 Fax: 915.684.3456	
Fluid volume released (bbls) =?	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)	
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)	
Leak, Spill, or Pit (LSP) Name: Clay Osborn Jalmat #22A	
Source of contamination: Pipe Line	
Land Owner, i.e., BLM, ST, Fee, Other: Clay and Gerry Osborn	
LSP Dimensions: affected area = 340' X 150'	
LSP Area = 23,437 ft^2	
Latitude: 32°07'58"N	
Longitude: 103°12'38"W	
Elevation above mean sea level: ~3,150'amsl	
Location- Unit or ¼¼: SW¼ of NW¼ UL-E	
Location- Section = 18	
Location- Township = 25S	
Location- Range = 37E	
Surface water body within 1000 ' radius of site: Intermittent earthen livestock watering tank 890' East	
Domestic water wells within 1000' radius of site: None	
Agricultural water wells within 1000' radius of site: None	
Public water supply wells within 1000' radius of site: None	
Depth from land surface to ground water (DG): ~70	
Depth of contamination (DC): 15'bgs	
Depth to ground water (DG – DC = DtGW) 55'bgs	

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-1000 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Ground water Score = 10	*Wellhead Protection Area Score= 0*	*Surface Water Score= 10*

Site Rank (1+2+3) = 10 + 0 +10 = 20 points

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene[1]	**10 ppm**	10 ppm	10 ppm
BTEX[1]	**50 ppm**	50 ppm	50 ppm
TPH	**100 ppm**	1000 ppm	5000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis