22 NM -

# MONITORING REPORTS

# YEAR(S): Feb 2003



February 20, 2003

## AMEC Project No. 2517000051

Ms. Martyne Kieling NMOCD 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

#### **RE:** Report for Goodwin Treating Plant Remediation

Dear Ms. Kieling:

AMEC Earth & Environmental is pleased to provide the following documentation in regards to remedial services performed at the Goodwin Treating Plant, located west of Hobbs, New Mexico. Attached you will find three copies of the report documenting the excavation, biopile construction, maintenance, sampling data and closure activities.

AMEC is looking forward to the opportunity to providing continued professional services to the NMOCD. If you have any questions, please contact us at (505) 327-7928.

Respectfully Submitted, AMEC Earth & Environmental

Don Fernald Program Manager

AMEC Earth & Environmental, Inc. 2060 Afton Place Farmington, New Mexico, 87401 Tel 1+505-327-7928 Fax 1+505-326-5721

www.amec.com



2060 Afton Place Farmington, New Mexico 87401 (505) 327-7928

PRESENTS THE

# REMEDIAL ACTION REPORT FOR THE GOODWIN TREATING PLANT WEST OF HOBBS, NEW MEXICO

**Prepared For** 

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

AMEC Project No. 2517000051

February 2003

# TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	BACKGROUND	2
3.0	REMEDIAL ACTIVIES	3
4.0	CLOSURE ACTIVIES	9

# LIST OF APPENDICES

APPENDIX A - CHRONOLOGY OF EXCAVATION AND BIOPILE CONSTRUCTION
Appendix B - Lea Land Company Waste Profile Sheet & Bill of Ladings for
TREATER TRANSPORT AND DISPOSAL
Appendix C - Bill of Ladings for Hydrocarbon-Impacted Soils Transported to
J&L Landfarm
Appendix D - Site Photographs
Appendix E - Bill of Ladings for Cow Manure Transported to the Goodwin
TREATING PLANT SITE
Appendix F - Soil Testing Analytical Data (BTEX & TPH)

i

APPENDIX G - SOIL TESTING ANALYTICAL DATA (BIOLOGICAL & CHLORIDES)

# **1.0 INTRODUCTION**

AMEC Earth & Environmental (AMEC) was retained to conduct remedial activities for the State of New Mexico Energy, Minerals and Natural Resources Department-Oil Conservation Division (OCD) at the Goodwin Treating Plant facility located in Lea County, west of Hobbs, New Mexico. The remedial activities were conducted in accordance with the contract between AMEC and the State of New Mexico General Services Department, Number 00-805-09-17656.

The Goodwin Treating Plant facility was operated prior to 1996 for treating or recovering crude oil from solids and produced water. Produced water, or salt water was disposed in an injection well located onsite. Management practices at the facility resulted in hydrocarbon contamination of soils located at the facility. Philip Environmental Services Corporation (PESC) conducted Field investigations and remedial activities in 2001. These activities included an investigation to determine hydrocarbon impacts to soil and groundwater in addition to remedial activities which included removal of most of the above ground storage tanks and tank bottoms. At the close of PESC's remedial activities during July of 2001, it was determined that approximately 15,000 cubic yards of hydrocarbon impacted soils remained on site at depths ranging from the surface down to five to eight feet below the surface.

# 2.0 **PROJECT BACKGROUND**

#### Previous Remedial Actions

PESC was contracted by the OCD to conduct limited remedial activities at the Goodwin Treating Plant site during 2001. PESC excavated and removed a total of 4,856 cubic yards of hydrocarbon-impacted soils from the Goodwin Treating Plant site and transported it to J&L Landfarm for remediation. This volume included tank bottom material that was not liquid enough to pump and was therefore, solidified for transport to the landfarm for treatment. Clean backfill soil was transported from the landfarm to the Goodwin Treating Plant site for backfilling-excavated areas.

PESC removed liquids from the tanks that were transported to Sundance Services and Controlled Recovery, Inc. (CRI) for recycling.

PESC removed the majority of the tanks, vessels, treaters, pipes, and other related equipment located on site. Two treaters and some associated piping were left on site. Materials that were salvageable or recyclable were sent to a salvage yard for processing. Materials that couldn't be recycled were sent to an EMNRD-OCD approved waste management facility for disposal. Solid waste material, consisting of redwood tanks, steel tanks with foam insulation and other miscellaneous debris was transported to CRI for disposal.

On November 27, 2001, the OCD requested a cost estimate and proposal from AMEC to complete remedial activities at the Goodwin Treating Plant site. AMEC provided the OCD with a cost estimate and proposal to excavate and treat approximately 12,000 cubic yards of hydrocarbon-impacted soils onsite, transport up to 500 cubic yards of tank bottoms and highly saturated hydrocarbon-impacted soils to an approved commercial landfarm and remove the treaters from the site.

# **3.0 REMEDIAL ACTIVITIES**

On Monday, June, 3, 2002 AMEC mobilized to the Goodwin Treating Plant site to begin remedial activities. On Tuesday, June 4<sup>th</sup> AMEC conducted a kick-off meeting, which consisted of a review of the site-specific health and safety plan, the project work plan and project documentation procedures. Mr. Larry Johnson with the OCD was present for a portion of this meeting and was presented a copy of the site-specific health and safety plan. After this meeting, excavation commenced on the northwest portion of the site. A chronology of the remedial activities performed by AMEC was documented and provided to the OCD via e-mail. A copy of this documentation is presented in Appendix A.

AMEC removed the two treaters and associated piping and equipment at the site. Prior to transport and disposal, AMEC screened the two vessels for Naturally Occurring Radioactive Materials (NORM). The vessels and residual contents were screened using a Ludlum Scintillator meter. Readings were detected less than the state of New Mexico threshold of 50 uR/hr. The treaters were sent to an OCD-approved facility (Lea Land Company) for disposal. A copy of the bill of lading and profile prepared for disposal of the treaters is included in Appendix B. AMEC subcontracted Hobbs Iron and Metal to complete the demolition, cutting and shearing of these treaters. Lea Land Company was subcontracted by AMEC to transport and dispose of these materials. The metal treater materials were not recycled due to the presence of residual hydrocarbons. It was deemed not cost effective to clean the treaters for recycling.

AMEC removed the tank bottom pile from the pit in the northwest corner of the facility. Tank bottom material was sent to an OCD-approved landfarm (J&L Landfarm) for reclamation along with other highly saturated hydrocarbon-impacted soils. AMEC subcontracted Martinez Trucking to transport these materials to J&L Landfarm for treatment. A total of 600 cubic yards of hydrocarbon-impacted soils and tank bottoms were transported to J&L Landfarm for treatment. Copies of the bill of ladings for the hydrocarbon-impacted soil and tank bottoms transported to J&L Landfarm are included in Appendix C.

AMEC excavated hydrocarbon-impacted soils around former tank footprint locations, hydrocarbon spills and other visually apparent areas of the former Goodwin Treating Plant facility. Areas not excavated include areas previously excavated and removed by PESC, areas around the disposal or injection well and areas that were not significantly impacted by hydrocarbons as determined visually and by field-testing with a photoionization detector (PID). Approximately 18,400 cubic yards of hydrocarbon-impacted soils were excavated by AMEC and treated onsite in the biopiles.

Photographs of site remedial activities are included in Appendix D.

## **3.1** Soil Screening and Sampling Procedures

Hydrocarbon-impacted soil that was highly contaminated and saturated as determined by visual observation was excavated to the practical extent. Once the hydrocarbon-impacted soil areas appeared to be reduced to levels that appeared clean or relatively hydrocarbon free, soil samples were obtained and screened in the field using a PID to help determine the levels of volatile hydrocarbon constituents present. The PID was calibrated daily prior to use. PID screening was performed as often as necessary to determine the levels of volatile hydrocarbons present. Once an excavated area was less than 100 parts per million as determined with the PID, a duplicate soil sample was placed into approved laboratory sampling containers, properly labeled, documented on a chain-of-custody (COC) form, placed in a cooler with ice and delivered to the OCD Hobbs district office. The OCD directed AMEC to directly ship the samples to the New Mexico state contracted laboratory (Trace Analysis, Inc.) for analysis of Benzene, Toulene, Ethylbenzene, Xylenes (BTEX), and Total Petroleum Hydrocarbons (TPH), Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) using Environmental Protection Agency (EPA) laboratory analysis Methods 8021 and 8015 Modified, respectively.

The criteria for determining remedial action levels for the site excavation as directed by the OCD are listed as follows:

Surface soils to eight (8) feet below ground surface:

Constituent	Action Level (ppm)
Benzene	10
BTEX	50
ТРН	1000

Below eight (8) feet of ground surface:

Constituent	Action Level (ppm)
Benzene	10
BTEX	50
ТРН	100

Remedial action levels were determined based on the depth of groundwater at the site being approximately 58 feet below ground surface.

# 3.2 Sample numbers and location identification

Duplicate soil samples (where PID results indicated less than 100 ppm) were sent to the laboratory had the following numbering system assigned to each sample.

Current date – sample number

Example: 060502-01

The first part of each sample number contained the date in which the sample was obtained, for example June 5, 2002 was labeled as 060502, which was be followed by the sample number. The second part of the sample number identifies the sequential number of the sample in relation to the sample location. Sample numbers ran sequentially throughout the excavation phase of the project to depict the sample location. If laboratory data indicated that a sample location had not been excavated to the extent in which hydrocarbon-impacted soils had been removed to cleanup criteria, additional excavation was completed. After excavation, a field test was completed with the PID and a duplicate sample was submitted for laboratory analysis. The sample date would be the actual date the sample was obtained, and the second part of the sample number would be a duplicate of the location that had secondary excavation performed for that location.

## 3.3 Sampling Strategy

Excavation activities were initiated along the northwest corner of the site. Excavating proceeded to the east across the site following any observable hydrocarbon-impacted soils. Soil sampling and testing was conducted with the PID as needed to verify the concentration of hydrocarbons as determined in the field. Clearance samples were obtained as needed, but no less then on the center of a grid of 50' x 50' to verify remedial action levels that have been achieved. Once hydrocarbon-impacted soils appeared to be removed, a soil sample was obtained from the bottom of the excavation for field-testing. If field-testing (PID results) data indicated less than 100 parts per million, then a duplicate sample was obtained for laboratory analysis and to verify clearance of the excavated area.

The following is the analytical data from the soil samples obtained from the excavated areas at the Goodwin Treating Plant.

Sample No.	Date	Benzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	TPH DRO	TPH GRO
1	05-Jun	<0.010	0.126	0.0364	0.032	0.194	<50	<1
2	05-Jun	<0.010	<0.010	<0.010	0.0172	0.0172	171	12.7
3	05-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	122	2.86
4	05-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
5	05-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
6	05-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	59.4	<1
7	05-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
8	05-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
9	10-Jun	<0.010	.0.14	0.0107	0.0117	0.0364	64.7	<1
10	10-Jun	<0.010	<0.010	0.0102	0.0104	0.0206	<50.0	<1
11	10-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	57.2	<1
12	10-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1

#### ANALYTICAL DATA FROM SOIL SAMPLING EXCAVATED AREAS

Sample No.	Date	Benzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	TPH DRO	TPH GRO
13	21-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	69.8	<1
14	21-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	109	<1
15	21-Jun	<0.010	<0.010	<0.010	0.0106	.0.106	179	<1
16	21-Jun	<0.010	<0.010	0.0167	0.0393	.0.56	1960	12.5
17	21-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	2.32
18	21-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
19	21-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
20 .	21-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
21	21-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	1530	<1
22	25-Jun	<0.010	<0.010	<0.010	0.0104	0.0104	<50	<1
23	25-Jun	<0.010	<0.010	0.0104	0.012	0.0224	<50	<1
24	25-Jun	<0.010	<0.010	0.0104	0.0109	0.0213	<50	<1
25	25-Jun	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
26	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
27	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	91.9	<1
28	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	66.3	<1
29	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	144	<1
30	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	224	<1
31	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	120	<1
32	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	102	<1
33	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
34	02-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
35	12-Jui	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
36	12-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
37	12-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
38	12-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
16*	12-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
21*	12-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
39	17-Jul	<0.010	<0.010	<0.010	0.013	0.013	<50	<1
40	17-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	50.9	<1
41	17-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
42	17-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
43	17-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
44	17-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
45	17-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
46	17-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1
47	17-Jul	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1

\*16 & \*21 are samples obtained from the same location of sample numbers 16 and 21 after additional excavation was completed to remove hydrocarbon-impacted soils.

AMEC completed the excavation and construction of the biopiles on July 17, 2002. Trace Analysis and the EMNRD-OCD provided a summary of analytical data from the excavation activities. This data is included in Appendix F.

# **3.4** Biopile Construction and Management

During the excavation of hydrocarbon-impacted soils, AMEC initiated the transport of cow manure from a local diary to the Goodwin site for construction of biopiles. AMEC constructed the biopiles concurrently with the excavation of the hydrocarbon-impacted soils. Cow manure was purchased from Martinez Trucking and transported to the site for use in construction of the biopiles. Approximately 4,564 Cubic yards of manure was transported to the Goodwin Treating Plant site for use in the biopiles. A ratio of approximately four parts hydrocarbon-impacted soils, to one part manure was used in construction of the biopiles. Biopiles consists of placing the hydrocarbon-impacted soils into long, high piles, mixed with manure. The addition of manure to hydrocarbonimpacted soils adds nutrients and stimulates the growth of indigenous organisms to assist with the degradation of hydrocarbons. Additionally, the organic matter in the manure helps retain moisture within the biopile, which is than readily available for the organisms that breakdown the hydrocarbons in the soil. While the biopiles were being constructed, AMEC transported water to the site with a water truck and applied it to the biopiles to assist with biodegradation of the hydrocarbons. Water was purchased from Gibbs Water Sales and transported to the site with a water truck and applied to the biopiles during construction to enhance biodegradation of the hydrocarbons.

Due to a need for increased space for construction of the biopiles, AMEC removed the fencing from the northern portion of the site and extended fencing to the north. Additionally, areas of the site that were excavated greater than eight feet were fenced to prevent livestock from potentially entering excavations.

On June 10, 2002, AMEC obtained two composite samples of the hydrocarbon-impacted soils that were excavated and submitted them to Trace Analysis, Inc. / BioLogic Resources, LLC to test for the presence of hydrocarbon-degrading organisms and chlorides. Since the site was historically used to treat crude oil and dispose of produced water, the presence of chlorides in high concentrations was a concern since chlorides can inhibit the populations of hydrocarbon-degrading organisms. The following is the data from the soil samples obtained and submitted for testing.

Sample No.	Date	Heterotrophic Plate Count CFU/g	Diesel Degrading Bacteria CFU/g	Heavy Oil Degrading Bacteria CFU/g	Chlorides mg/kg
061002-1	10-Jun	9.1x10 <sup>6</sup>	7.1x10 <sup>6</sup>	6.7x10 <sup>6</sup>	3900
061002-2	10-Jun	5.6x10 <sup>7</sup>	4.5x10 <sup>6</sup>	2.7x10 <sup>6</sup>	1900

#### ANALYTICAL DATA OF SOIL SAMPLES FOR HYDROCARBON-DEGRADING ORGANISMS

The data shows that chloride concentrations did not appear to be at levels that would inhibit biodegradation of the hydrocarbons within the soil, as the heterotrophic plate and bacteria counts are elevated.

Biological and chloride analytical data is included in Appendix G.

On July 17, 2002 and soil samples were obtained from the biopiles for submittal to Trace Analysis, Inc. for testing of BTEX, TPH-DRO and TPH-GRO using EPA methods 8021 and 8015 Modified, respectively. After sampling biopile soils, the first "turning event" where the biopiles were moved, aerated and watered was initiated to enhance the biodegradation of the hydrocarbons. A subsequent turning event was initiated on September 4, 2002 with additional sampling of the biopiles being performed afterwards on September 11, 2002. Analytical data from the September 11, 2002 sampling event indicated that a sharp reduction in hydrocarbons within the biopiles had occurred. Therefore, an additional turning event was not deemed necessary and backfilling of the excavations was approved by the OCD. Additional sampling of soil from the biopiles was performed by the OCD on November 21, 2002. Analytical data from the biopiles sampling events is presented below.

Sample No.	Date	Benzene	Toluene	Ethylbenzene	M,P,O- Xylene	Total BTEX	TPH DRO	TPH GRO
1	17-Jul	<0.010	0.0461	0.173	0.446	0.665	4430	40.1
2	17-Jul	<0.010	0.0401	0.0658	0.293	0.371	5000	32
3	17-Jul	<0.010	0.0585	0.058	0.235	0.332	4490	18.6
4	17-Jul	0.356	0.953	1.83	6.21	9.35	3390	183
5	17-Jul	0.0556	0.0465	0.264	0.429	0.795	5140	39.9
6	17-Jul	<0.010	0.0213	0.0694	0.157	0.248	2730	24.1
7	17-Jul	<0.010	0.0202	0.042	0.0978	0.16	2410	16.3
8	17-Jul	<0.010	0.0733	0.46	1.25	1.78	2870	56.3
9	17-Jul	0.666	0.637	2.06	4.74	8.1	3170	124
10	17-Jul	<0.010	0.0146	0.13	0.584	0.729	3040	55.3
1	11-Sep	<0.010	0.0104	0.0425	0.0687	0.122	393	18.2
2	11-Sep	<0.010	<0.010	0.0262	0.061	0.0872	210	13.6
3	11-Sep	<0.010	<0.010	0.0138	0.0468	0.0606	526	9.37
4	11-Sep	<0.010	<0.010	0.0158	0.0484	0.0642	298	12.3
5	11-Sep	<0.010	<0.010	0.0227	0.0346	0.0573	1040	15.5
112102913	21-Nov	<0.010	<0.010	<0.010	<0.010	<0.010	225	4.54
112102920	21-Nov	<0.010	<0.010	<0.010	<0.010	<0.010	389	<1
112102928	21-Nov	<0.010	<0.010	<0.010	<0.010	<0.010	508	<1
112102936	21-Nov	<0.010	<0.010	<0.010	<0.010	<0.010	342	3.92
112102944	21-Nov	<0.010	<0.010	<0.010	<0.010	<0.010	411	<1

#### ANALYTICAL DATA FROM BIOPILES

A summary of the analytical data is included in Appendix F.

# 4.0 SITE CLOSURE ACTIVITIES

On December 2, 2002, AMEC initiated backfilling of soils from the biopiles into the previously excavated areas at the Goodwin Treating Plant site. Fencing installed around the deeper excavations was removed and stockpiled along the site for disposal by the OCD. AMEC completed backfilling and site closure operations on December 18, 2002.

# **APPENDIX A**

-----

# CHRONOLOGY OF EXCAVATION AND BIOPILE CONSTRUCTION

.

Report Submitted by:AMEC Earth & EnvironmentalProject No. 2517000051Week Ending June 7<sup>th</sup>, 2002

#### Monday, June 3, 2002

AMEC mobilized equipment and personnel to Hobbs, New Mexico and the Goodwin Treating Plant to initiate remedial activities on Tuesday, June 4, 2002.

### Tuesday, June 4, 2002

8:00 AM – Started the project with a kick off meeting, which included a review of the Health and Safety requirements for completing the project. The scope of work for the various tasks of the project were discussed and covered. Documentation procedures and reporting requirements were also reviewed. Mr. Larry Johnson with the NMOCD was present on site. AMEC discussed fencing issues with Larry to determine areas accessible for site work. Soil sample supplies, pick up and delivery were reviewed with Larry since the NMOCD would be handling all analytical testing costs.

Excavation of hydrocarbon-impacted soils was initiated on the northwest portion of the site. A hard impenetrable (with an excavator) caliche is present at depths from four to six feet below ground surface. This layer appears to limit hydrocarbon contaminant migration.

#### Wednesday, June 5, 2002

Excavation of hydrocarbon impacted soils continued. The fence was removed from the northern portion of the site to access other work areas. Albert Martinez Trucking transported 400 cubic yards of hydrocarbon-impacted soils and tank bottoms to J&L Landfarms for treatment. Four soil samples from the bottom of excavated areas were obtained for laboratory analysis of hydrocarbon constituents.

## Thursday, June 6, 2002

Excavation of hydrocarbon impacted soils continued. An additional 200 cubic yards of hydrocarbon impacted soils and tank bottoms were transported to J&L Landfarms for treatment. 444 cubic yards of manure was delivered to the site and construction of biopiles was initiated on the northern portion of the site.

#### Friday, June 7, 2002

Excavation of hydrocarbon impacted soils continued. 820 cubic yards of manure was delivered to the site and construction of biopiles was initiated on the northern portion of the site. One load or 130 bbls of water was delivered to the site to mix into the biopiles with the manure and hydrocarbon impacted soils. Four soil samples from the bottom of excavated areas were obtained for laboratory analysis of hydrocarbon constituents. Samples obtained for analysis on June 5<sup>th</sup> & 7<sup>th</sup> were labeled, documented on chain of

custody forms, stored in a cooler with ice and transported to the TNM&O bus station as directed by the NMOCD for delivery to Trace Analysis for testing. Theses soil samples will be tested for total petroleum hydrocarbons using EPA Method 418.1.

# Summary Report Submitted by:AMEC Earth & EnvironmentalProject No. 2517000051Week Ending June 14<sup>th</sup>, 2002

## Saturday, June 8th, 2002

Transport of 720 cubic yards of manure to the Goodwin site by subcontractor (Albert Martinez Trucking). Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon impacted soils continued on northern portion of the site.

## Monday, June 10, 2002

Transport of 700 cubic yards of manure to the Goodwin site by subcontractor (Albert Martinez Trucking). Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon impacted soils continued on northern portion of the site. Transport of hydrocarbon-impacted soils from excavation area to the biopile areas to the north of the site.

## Tuesday, June 11, 2002

Transport of 360 cubic yards of manure to the Goodwin site by subcontractor (Albert Martinez Trucking). Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon impacted soils continued on northern portion of the site. Transport of hydrocarbon-impacted soils from excavation area to the biopile areas to the north of the site.

## Wednesday, June 12, 2002

Transport of 80 cubic yards of manure to the Goodwin site by subcontractor (Albert Martinez Trucking). Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon impacted soils continued on northern portion of the site. Transport of hydrocarbon-impacted soils from excavation area to the biopile areas to the north of the site.

## Thursday, June 13, 2002

Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon impacted soils continued on northern portion of the site. Transport of hydrocarbon-impacted soils from excavation area to the biopile areas to the north of the site.

#### Friday, June 14, 2002

Approximately <sup>1</sup>/<sub>4</sub> to <sup>1</sup>/<sub>2</sub> inch of precipitation is reported for this day. Continued mixing hydrocarbon-impacted soils with stockpiled manure. Excavation of hydrocarbon impacted soils continued on northern portion of the site. Transport of hydrocarbon-impacted soils from excavation area to the biopile areas to the north of the site.

# Summary Report Submitted by:AMEC Earth & EnvironmentalProject No. 2517000051Week Ending June 21st, 2002

#### Saturday, June 15, 2002

Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon-impacted soils continued on northern portion of the site and transport of these soils to the biopile area for mixing.

#### Monday, June 17, 2002

Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon-impacted soils continued on northern portion of the site and transport of these soils to the biopile area for mixing.

#### Tuesday, June 18, 2002

Subcontractor (Hobbs Iron & Metal) arrives on site to decommission heater-treaters. The 47 bbl transport was mobilized to the site to allow for more water usage in biopiles and for dust control. The heater-treaters were decommissioned with a shear fitted to a tracked excavator. AMEC completed a NORM survey of tanks and contents (sludge). The Ludlum scintillator readings were recorded below 50 uR/hr. Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon-impacted soils continued on northern portion of the site and transport of these soils to the biopile area for mixing.

#### Wednesday, June 19, 2002

Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon-impacted soils continued on central portion of the site and transport of these soils to the biopile area for mixing. Discussed excavations around disposal well with OCD. OCD signed bill of ladings for disposal of heater-treaters and related materials.

#### Thursday, June 20, 2002

Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon-impacted soils continued on central portion of the site and transport of these soils to the biopile area for mixing. Loaded four truckloads of heater-treater and associated debris for transport and disposal at the Lea Land, Inc. facility. Lea Land, Inc also provided transportation of the debris.

#### Friday, June 21, 2002

Continued mixing hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. Excavation of hydrocarbon-impacted soils continued on central portion of the site and transport of these soils to the biopile area for mixing.

# Summary Report Submitted by:AMEC Earth & EnvironmentalProject No. 2517000051Week Ending June 28, 2002

# Saturday, June 22, 2002 through Friday, June 28, 2002

Continued excavation and mixing of hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site.

# Summary Report Submitted by:AMEC Earth & EnvironmentalProject No. 2517000051Week Ending July 5, 2002

# Saturday, June 29, 2002 through Friday, July 5, 2002

Continued excavation and mixing of hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site. The crew left the site and mobilized back to Farmington on July 3, 2002 for the Independence Day holiday.

# Summary Report Submitted by:AMEC Earth & EnvironmentalProject No. 2517000051Week Ending July 12, 2002

## Saturday, July 6, 2002 through Friday, July 12, 2002

AMEC's remediation crew mobilized from Farmington to Hobbs, New Mexico on Monday, July 8, 2002. The Goodwin treating plant site reportedly received several inches of rain during the weekend of July  $6^{th} \& 7^{th}$ . The first part of the week was spent working the puddles of water from the recent rains into the soil. Continued excavation and mixing of hydrocarbon-impacted soils with stockpiled manure and adding water hauled to the site.

Laboratory data from BioLogical Resources who was subcontracted by Trace Analysis to analyze representative soil samples from the Goodwin Treating Plant was received. The data indicates that sufficient populations of diesel and heavy oil degrading bacteria are present at the site. Moderately elevated concentrations of chlorides were present in the two soil samples, but not at concentrations that would inhibit biological degradation of hydrocarbons.

# Report Submitted by:AMEC Earth & EnvironmentalProject No. 2517000051Week Ending July 21st, 2002

## Saturday, July 13, 2002

AMEC continued excavation of the hydrocarbon-impacted soils. Water was hauled to the site and construction of the biopiles continued.

## Monday, July 15, 2002

AMEC continued excavation of the hydrocarbon-impacted soils. Water was hauled to the site and construction of the biopiles continued. Installation of the fencing was initiated on the northern portion of the site.

#### **Tuesday, July 16, 2002**

Fencing was completed on the northern portion of the site. Construction of the biopiles continued. Excavation of the hydrocarbon-impacted soils is nearing completion. Additional samples of the excavated areas will be obtained tomorrow. A request for a quick turnaround from the laboratory for the analytical data was requested.

#### Wednesday, July 17, 2002

Nine soil samples obtained for testing of TPH/BTEX. Excavation of the hydrocarbonimpacted soils is complete, pending sample results. Construction of the biopiles completed. Old fencing removed from portions of the site.

#### Thursday, July 18, 2002

Maintenance or moving and aeration of the biopiles were initiated. Construction of a berm around the site was initiated.

### Friday, July 19, 2002

Fencing was completed at the site. Maintenance of the biopile in addition to watering continued. Construction of the berm around the site was continued.

### Saturday & Sunday July 20 & 21, 2002

AMEC completed turning and watering of the biopiles in addition to construction of the berm around the site. AMEC demobilized from the area on Monday, July 22, 2002.

# **APPENDIX B**

LEA LAND COMPANY WASTE PROFILE SHEET & BILL OF LADINGS FOR TREATER TRANSPORT AND DISPOSAL



# THE REPRODUCTION OF

THE

FOLLOWING

**DOCUMENT (S)** 

**CANNOT BE IMPROVED** 

**DUE TO** 

**THE CONDITION OF** 

**THE ORIGINAL** 



# NEW \_\_\_\_AMENDMENT

PAGE 1 OF 5

Material Profile No:

#### **GENERATOR INFORMATION** Α.

Cenerator Name <u>New Mexico Energy Minerals and Natural Resource Department</u>, Oil CODESTVUSION Division - Goodwin Tracting Plant

Facility Address Approximately 7 miles west of Hobbs, New Mexico on Hwy 180, then north 1/2 mile on the east side of Musidox Power Company road or legally described as Ranse 37 East, Township 185, Section 31 / SW1/4 of NW 1/4

City/County\_Rural Lea County\_\_\_\_\_ State\_New Mexico\_\_\_ Zip Code \_\_\_\_\_

State ID#

Technical Contact <u>Martyne Kieling – NM OCD or Larry Johnson</u> Te ephone (505) 476 3488 Ext. Fax ( ) Billing Name AMEC Earth & Environmental Billing Address 2060 Afton Place

City Fatnington State NM Zip Code 87462 Attention Don Fernald / RE: 2517000051 Telephone (505) 327-7928 Ext.

**B**. RCRA Non Hazardous/Exempt? X Yes No RCRA General Description of Process: Waste consists of an old crude oil heater-treater made of metal/steel with foam insulation. Residual hydrocarbons remain in heater-treater that will be cut up into manageable sizes for transport and disposal. Will include, steel, concrete, foam insulation and hydrocarbon soil/sludge.

#### С. ANNUAL REPORT CODES (see attached lists)

NAME OF WASTE STREAM:

SIC Code: Source Code: \_\_\_\_\_ Form Code:

Origin Code: System Type: M132 (Landfill)

Rev. 03-03-00

(INE) 0 18 5005 (0:59/01 10:52/NO 2010/03311 B

RUNA

# WASTE PROFILE - PAGE 2 OF 5

# C. ANNUAL REPORT CODES CONT. (set autacucu hists)

# NAME OF WASTE STREAM: \_\_\_\_\_

SIC Code: \_\_\_\_\_ Source Codo. \_\_\_\_\_ Form Code: \_\_\_\_\_ Origin Code: System: Type: M132 (Landfill)

NAME OF WASHE STREAM:

SIC Code: \_\_\_\_\_\_ Scures Cade: \_\_\_\_\_ Form Code: \_\_\_\_\_ 

# NAME OF WASTE STREAM:

SIC Code: \_\_\_\_\_\_

Origin Code: System Type: - Will 3 2 (Landfilf)

#### NAME OF WASTE STREAM:

SIC Code: \_\_\_\_\_ Source Code: \_\_\_\_\_ Form Code: \_\_\_\_\_ Origin Code: \_\_\_\_\_ System Type: M 1 3 2 (Landfill)

\_\_\_\_

# NAME OF WASTE STREAM: \_\_\_\_\_

 SIC Code:
 \_\_\_\_\_\_

 Source Code:
 \_\_\_\_\_\_

 Form Code:
 \_\_\_\_\_\_

Origin Code: \_\_\_\_\_\_ System Type: M 1 3 2 (Landfill)

Rev. 03-03-00

(INE) 0 18 5005 10:50% 011 10:50/NO1 2010203311 6 3

# WASTE PROFILE - PAGE 3 OF 5

# D. OTHER COMPONENTS

PCB's	<u>X</u> No	Yes	Total ppm	*
Cyanides	<u>X</u> No	Yes	Total ppm	
Sulfides	X_No	Yes	Totai ppm	-
Pesticides	<u>X</u> No	Yes	Total ppm	
Dioxins	X No	Yest	Total ppm	
			· · ·	

\*If contained in spill media, concentration of original chemical prior to spill.

# E. <u>PENSICAL CHARACTESISTICS</u>

1. Intectious or Biological Waste? Yes X_No
2. NRC Regulated Radioactive? Yes X No
3. "Listed" Hazardous Wastes? Yes X No (coded in 40 CFR, Part 261)
4. Municipal Waste? Yes X No
5. Asbestos Waste? Yes X No
6. Reactivity? Nonc Water Reactive
Countides Shock Sensitive
Sulfides DOT Explosive
Pyrophoric Other
7. Solid%
Sindges 1 %
Free Liquids %
100 %
8. Weight
Density lbs./cu. foot
9. pH X N/A 0 - 2 10.1 - 12.4 2.1 - 4 $\geq$ 12.5
4.1 - 10 Exact
<ul> <li>iii. Is this waste stored in venied drums?Yes _X_No</li> <li>Do those drums contain free liquids?YesNo</li> <li>or Unfilled head space?YesNo</li> </ul>

Rev. 03-03-00

(INE) 0 18 5005 10:50/21 10:50/NO 001010203311 B

Wést

#### WASTE PROFILE - PAGE 4 OF 5

11. Does this waste contain scrap metal pieces greater than 2 inches in size or any protruding re-bar (from concrete pieces)? X Yes No

Please describe \_\_\_\_\_\_\_\_\_\_ Die waste if a former crude oil heater treater that will be cut up for disposal.

F. <u>METALS</u> - Steel tank

X\_NONE \_\_\_\_ TCLP (mg/L)

	<u>Rog. Limit</u>	Below	ahove
Arsenic	5 mg/L	**	
Barium	100  mg/L		
Cadmian	J mg/L		
Chromium	5 mg/L		
Leau	5 mg/L		
Motolary	0.2  mg/L		
Selenium	l mg/L	·	
Silver	5 mg/L		
Others:			

# G. PHYSICAL/CHEMICAL CONSTITUENTS

Attach all MSDS, Sample Analysis and Additional Information

# H. ANTICIPATED VOLUME

Quantity	Container (	<u>Ouantity</u>	Container	
18	5-gal pail 15-gal carboy 30-gal drum 55-gal drum 85-gal drum Cu Yard Box Super Sack	6 or 7	20 cu yd Roll Off 25 cu yd Roll Off 30 cu yd Roll Off 40 cu yd Roll Off # Bales (density = Dump Trailer Tanker	lb/ft3)
	Other		х	
•	icads one time : e Week			

#### Rev. 03-03-00

#### WASTE PROFILE - PAGE 5 OF 5

If empty containers which formerly contained hazardous waste are to be disposed:

Do they contain no more than 1 inch of residue on the bottom of the container? <u> Yes X</u> No

Have they been rendered non-reusable (i.e., enished, punctured, etc.)? \_\_\_\_\_Ycs \_\_\_\_No\_\_X\_N/A

# **Generator's Certification:**

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this profile.

\_\_\_\_\_\_Date 6/28/02 Generator's Authorized Signature: Martin NMOCO

#### Rev. 03-03-00

# amer

#### VLA FACSIMILE: 713-968-6513

Ms. Saralyn Hall Lea Land, Inc.

RE: Goodwin Treating Plan Profile West of Hobbs, New Mexico AMEC Project No. 2517000051

Dear Ms. Hall,

AMEC Earth & Environmental (AMEC) has completed a NORM survey of various materials from the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division (EMNRD-OCD); Goodwin Treating Plant site located approximately 7.5 miles west of Hobbs, New Mexico. The materials consists of heatertreater tanks, piping. concrete, foam insulation and hydrocarbon soils/sludge. The highest reading detected for materials destined for disposal at Lea Land, Inc., using a Ludhum Scintillation Proto was 44 inferoroences per Holz (pR/ar).

The EMNRD-OCD has reviewed and signed a profile for the materials planned for disposal at Lea Land, Inc., which will be forwarded to you by a separate facsimile. Should you have any questions, please contact Ms. Martyne Kieling with the EMNRD-OCD at (505) 393-6161 or Don Fernald with AMEC at (505) 327-7928.

Sincerely Don Fernald

Program Manager

AMEC Earth & Environmental, Inc. 2060 Afton Place Farmington, New Mexico, USA Tel 1+505-327 7928 Fax 1+505-326-5721

WASH, AN EC.COTT

FROM

STRAIGHT BILL OF LADING - SHORT FORM -	Original	- Not N	egotiable				· · ·	
				Shij	oper's No			
(Carrier) <u>Tripsd</u> <u>The</u> Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading	SCAC.	·		_ Car	rier's No			
		1-0	A . 7	_				
at	condition of con on or corporation	itents of pack n in possess	ion of the prope	marked, c ty under t	onsigned, and desti he contract) agrees	to carry to its	usual place of delivery	at said
portion of said route to destination, and as to each party at any time interested in all or law, whether printed or written, herein contained (as specified in Appendix B to Part 10 TO: (Mail or street address of consignee for purposes of notification on	r any of said pro 035) which are h	perty, that ev	ery service to be to by the shippe	performe	d hereunder shall be	subject to all		
Consignee LeA LAND Inc			er NM	oc	.0			
	80					ting	Plant	
Street Mile marke 64 45 Hay 62/1 Destination 30 mile East of Canisban Boute	NN	2. Origir	7mil	, e w	est H	wy 6	2/180	
		Ho	663	N 1	11			
Delivering Carrier			iitial/Numbe	-			Reg. Number	
<sup>No. of</sup> HM Description of articles, special marks, and exce packages	eptions (	lazard Class	I.D. Number	Packin Group	(subject to correction)	rate	Labels required (or exemption)	Check column
1 Non Hazardou 5 Non Regalate 1 Non Hazardows Non Regular	ed wa	ste	X	$\geq$	20%		ЕхстрГ Е <b>лспР</b> +	
NON Hazardows NON Regular	ted wa	:5≁ e	X	X	2012	~	Exca Pt	X
MANIFEST NO.	1998) (1999)(19990)(1999)(1999)(1999)(1999)(1999)(1999)(1999)(1999)(1999)(1999)(1999				1770-001 776 - 010 1070-00 1010-00-00-00-00-00-00-00-00-00-00-00-00	4 m damaan uuuu damaa ah a		-
25264			•		996-9696 e Constantino de Constantino de Constantino de Constantino de Constantino de Constantino de Constanti		- <u>A</u>	
25286	2	*						
FOR LEALOND, INC	с.							
KINNETH SCHUG	HTER							
JUNE 20, 2602					1011101	ante anno teranos en andonesiado e	an	
	an a succession dependence	ur, Maak and von af Anima re	e montante a marca norma a na antan e a		NUMBER AND STREAMENTS BASE & SHE MANNE			d managemente des anno 16 and al faith da anno 16
Remit C.O.D. to:					bject to Section 7 of co	nditions, if this	C. O. D. FEI	E:
Address: City: State: Zip:		\$		withou consig The shipme	It recourse on the c nor shall sign the followi e carrier shall not make ent without payment of awful charges.	onsignor, the ng statement: delivery of this	Prepaid 🗌 Collect 🔲 \$	
"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's Note,where the rate is dependent on value, shippens are required to state specifically in writing the agreed or declared value of the property is hereby specifically stated by the shippen to be not exceeding per per per the advectment of matching matching from the advectment of the property is hereby as a state of the property of the p	a property.	Charge \$	s Advance		(Signature of consig		FREIGHT CH	
of Transportation.	PLACARDS REQUIRED				PLACARDS SUPPLIED	DRIVER'S S	NO - FURNISHED BY	CARRIER
SPECIAL INSTRUCTIONS: SHIPPER: <u>AMOCD</u> PER: DATE: 6-2	20-02		ER:					
		- EMER	GENCY RES		E ()	I	DATE:	
Permanent post office address of shipper					erial is in transportation	including storag	e incidental to transportati	on (§172.604).

CONTAINS HAZARDOUS MATERIALS

				• 7	1			
Carrier) eceived, subje	Tripod INC. SC sci to the classifications and tariffs in effect on the date of this Bill of Lading:	CAC		Carrie	er's No			
		te <u>6-2</u>	1					
(the word cor	described below, in apparent good order, except as noted (contents and condition mpany being understood throughout this contract as meaning any person or con	of contents of pac poration in possess	kages unknown), r sion of the property	narked, cons y under the	signed, and des contract) agree	s to carry to it	s usual place of delive	ry at said
portion of said	f on its own road or its own water line, otherwise to deliver to another carrier on th d route to destination, and as to each party at any time interested in all or any of s printed or written, herein contained (as specified in Appendix B to Part 1035) which	aid property, that e	very service to be	performed he	ereunder shall b	e subject to al		
<b>U</b> .	ail or street address of consignee for purposes of notification only.)	FRO			_			
Consignee	EALAND INC	Shipp 62	per <u>N M</u>	OC.	D		11	
Street 🥖	ELEA LAND INC 	400 y 18000	t Good u	vin	Treat	ing	Plant	
Destination Route:	"30 miles East of Garlshad.	NM Origin	7mi	West	+ Hwy	62/12	Zip	
		Ha	obbs	<u>N.,</u>	M			
Delivering	Carrier	I railer ir	nitial/Number	-		i Hazmat	Reg. Number	
lo. of ckages HN	M Description of articles, special marks, and exceptions	Hazard Class		Packing Group	*Weight (subject to correction)	Class or rate	Labels required (or exemption)	i Che colu
1	Non HAZardous NonRegulate	l wa	ste	$\checkmark$	とのだ	$\times$	Exempt	+
	Non HAZardous NonRegulated	weste	X	X	20 Yd	X	Exempt Exempt	- X
							generation enterne a filosoficiales designing bits bit del Adalantes bit de	
			*****					
	MANIFEST NO.		11.17.191.191.191.191.191.191.191.191.19	ha fanalayaan oo aanaa gaaraa ya gaaraa gaaraa				
	25283							
***************************************	25285							
			98 w/ w/ 107 million / 107 million / 100					_
<b>111</b>	FOR LEA LAND, INC. KINNETH SLAUGHT					an - Indonesia (Kernetera Kernetera I.		
		EL_						
	JUNE 20 200.2				- איז דיך יוניינויינויינויי אואיאויי			
1997 AND 1997 - AND 1996 - AND	аланын мамлакан алар алар алар алар алар алар алар ал							
Remit C.				Subject	to Section 7 of c	onditions, if this	C. O. D. FE	<u> </u>
Address: Dity:		COL \$	AMT:	without re consignors The ca	s to be delivered to acourse on the shall sign the follow rrier shall not mak	consignor, the ring statement: e delivery of this	Prepaid 🗌	
e shipment moves b a where the rate is	between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's a dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. value of the property is hereby	weight Charge	s Advanced	other lawfu	without payment of I charges.	of freight and all	FREIGHT CH	
cifically stated by the is is to certify that eled, and are in pr	s bilipper to be not exceeding per per at the above-named materials are property classified, described, gatesged, marked and roper condition for transportaging agg/arding to the gagelicable regulgidons of the Department PLACA		<u>.</u>		(Signature of cons		NO - FURNISHED	
Transportation.	NSTRUCTIONS:	RED		SL	JPPLIED	DRIVER'S	SIGNATURE	Juon
	<u>N. M. OCD</u> DATE: 6-20-	CARR	IER: Tri	ood	Inc	2	DATE: 6-20	
	DATE: <u>6 ፈር</u>	EMER					DATE:	-0.

# APPENDIX C

-- --

· · · · ----

\_ \_ \_ \_ \_ \_ \_ \_ \_

BILL OF LADINGS FOR HYDROCARBON-IMPACTED SOILS TRANSPORTED TO J&L LANDFARM

STRAIGHT BILL OF LADING - SHORT FORM - Origina	al – Not Negotiable							
	Shipper's No							
(Carrier) <u>Albert Martinez Trucking</u> SCAC Carrier's No								
at Gardinia Treating Plant data	6-5-02	from 6-5-07						
at <u>Graduur</u> , <u>Treating</u> <u>Plant</u> , date the property described below, in apparent good order, except as noted (contents and condition of (the word company being understood throughout this contract as meaning any person or corpora destination, if on its own road or its own water line, otherwise to deliver to another carrier on the ro- portion of said route to destination, and as to each party at any time interested in all or any of said	oute to said destination. It is mutu	ually agreed, as to each carrier of all or	any of said property over all or any					
portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns. TO: (Mail or street address of consignee for purposes of notification only.) FROM:								
Consignee Jth LANdfarms, Inc. Shipper NMOCD-Goodwin Treating Plt.								
Street 8301 Eunice Huy/CR C-45			N of Hwy 16					
Destination Hobbs N.M. Zip 98241 Route:		5 N.M.	Zip					
de M. Robert	Troilor In Walk water		ot Dog. Number					
Delivering Carrier	Trailer Initial/Number	r U.S. DOT Hazm	iat Heg. Number					
No. of packages HM Description of articles, special marks, and exceptions	Hazard I.D. F Class Number	Packing *Weight Group correction rate						
Exempt hydor Carbon Soils	$\times \times$	XZOCY	Exempt					
Exempt Hyden Carbon soils	$\times  X $	× 2044.	Exempt					
Exempt Hydro Carbon Soils	X X	X 20 ml.	Exempt					
Exempt Hydro CARba so. 15	XX	X Dyd	Exempt					
Exempt Hydro CARbon Soils	$\times \times$	X Dyd	Edenpt					
Exempt Hydro CARBON Soil 1	$\times \times$	X 20ud	Exempt					
Exempt Hydro CARDON soils	$\times \times$	× 20 yd	Exempt					
Exempt Hydro CARbor soils	$\times$	X 20 yl	Exempt					
Exempt Hudro Carbon Soils	$\times$	Dord	Exempt					
Exempt Hudro CARbow Soils	XX	× 20 40	Exempt					
	n mar y an an an Y ann a' a ann Y ann a' ann Y ann a' ann an Ann a' a		7					
	annonen an							
Remit C.O.D. to: Address:	COD AMT	Subject to Section 7 of conditions, if i shipment is to be delivered to the consign without recourse on the consignor,						
Address: City: State: Zip: "If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight	\$	consignor shall sign the following statement The carrier shall not make delivery of i shipment without payment of freight and other lawful charges	this Collect S					
Note. – where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not acceeding per		(Signature of consignor)	FREIGHT CHARGES					
This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.			S NO - FURNISHED BY CARRIER					
SPECIAL INSTRUCTIONS: SHIPPER: MM.OCD	CARRIER: Alber	at MANJINEZ T	TRuck, il.					
PER: DATE: 6-5-02	- PER Month.	Mat	_ DATE: 6-5-02					
Permanent post office address of shipper	EMERGENCY RESP     TELEPHONE NUME     Monitored at all times the Haza	BER:()	torage incidental to transportation (§172.604).					

ļ

STRAIG	HT BILL OF LADING – SHORT FORM – Origin	al – Not M	legotiable				
				Shipper's No. <sub>-</sub>			
(Carrier)	Albert Martinez Trucking SC	AC		_ Carrier's No	<u>+</u> +		
at <u>600</u>	described below, in apparent good order, except as noted (contents and condition or pearly belog understood throughout this contract as meaning any person or corp	of contents of pa	-02 ckages unknown), n	_ from6-5	tined as indica	ated below, which said	company rv at said
destination, it portion of sai law, whether	in its own road or its own water line, otherwise to deliver to another carrier on the d route to destination, and as to each party at any time interested in all or any of sa printed or written, herein contained (as specified in Appendix B to Part 1035) which all or street address of consignee for purposes of notification only.)	e route to said de id property, that are hereby agree	estination. It is mutu every service to be p ed to by the shipper	ally agreed, as to each can performed hereunder shall I	rier of all or an be subject to all	y of said property over	all or any
10.	John Land Farms Inc.	FRC Ship		CD-Good	winTi	reating 1	lanT
	301 Eunice Hwyl CR C-45			est of Hob			
Route:	n Hobbs N.M Zip 88.241			5 N, M			
Delivering	<u>ce m.</u> Roberts Carrier	Trailer	nitial/Number 96	U.S. DC	T Hazmat	t Reg. Number	
No. of HI	Description of articles, special marks, and exceptions	Hazard Class	I.D. F	Packing *Weight Group (subject to correction)	Class or rate	Labels required (or exemption)	Check column
	Exempt Hydrocarbon soils	$\times$	$\times$	X 20 cy		Exempt	- -
	Exempt HYDROGARbon 50,15	$\begin{array}{c} \chi \\ \nu \end{array}$	$\left  \begin{array}{c} \chi \\ \ddots \end{array} \right $	X ze ye		EXERT	
	EXEMPT HYDRO CARDON SO: 15 EXEMPT HYDRO CARDON SO: 15	$\begin{array}{c} \Lambda \\ X \end{array}$	$\begin{array}{ c c c } X & -X & -X \\ X & X & -X \end{array}$	X 2° cy X 2c y d		ELMPET	
	ENSIMPT HYLRO CARBON 50:15	X	X	X scyd		ELMPT	1117 VICEO 1 - 1 - 1
0 	EXCORT HHOLEOLAND SCIIS	X	X	X jeyd		Exempt	100 Patrices, 6,
	# XCMPT HY 48 CARIBON Sois	X	X	X zeyd		FLEMPT	
an official and a solution of	Frempt Hydro carpor sells	$\frac{\gamma}{X}$		X 2cyd X 2cyd		L'Kempt	
	EXEMPT HYDRO CARBON SEILS EXEMPT HYDRO CARBON SOILS	X	X	X 20yd		Exempt	· ·
						na selas da sebar ekonoloxík (a Hardinadi - m 1) ab ev da febrali	1004d
Remit C. Address:		CO	D AMT	Subject to Section 7 of shipment is to be delivered without recourse on the consignor shall sign the follon The carrier shall not mai	to the consignee consignor, the wing statement:	Prepaid	 E:
Note where the rate is The agreed or declared	State: Zip: between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's w dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. value of the property is hereby shipper to be not exceeding per	<sup>reight"</sup> Charg	es Advanced	shipment without payment other lawful charges.	of freight and all		_
This is to certify that	shipper to be indirected and the second seco	IDS		Signature of construction (Signature of construction)	YES	NO - FURNISHED E	· ·
SPECIAL I SHIPPER:		CARF	RIER: Alogai	parizer T	Luck: Ny	1	
PER: ڬ	St Johnson DATE: 6-5-0	PER:	GENCY RESE	200		DATE: 2-6-07	2
Permanent post	office address of shipper		PHONE NUME d at all times the Haza	BER:) rdous Material is in transportation	on including store	age incidental to transporta	tion (§172.604).

•

CONTAINS HAZARDOUS MATERIALS

STRAIGH	T BILL OF LADING – SHORT FORM – Origina	al – Not Ne	gotiable				
				Shipper's No			
(Carrier) A	bert Martinez Trucking SCA	.C		Carrier's No. 🚄	96		
at <u>Gooda</u>	win Treating Plant, date	<u>6-6-</u> contents of pack	ages unknown), ma	from <u>6-6-</u>	-02	ted below, which said	company
destination, if on portion of said ro law, whether prin	ny being understood throughout/this contract as meaning any person or corpor- its own road or its own water line, otherwise to deliver to another carrier on the r ute to destination, and as to each party at any time interested in all or any of said ted or written, herein contained (as specified in Appendix B to Part 1035) which ar or street address of consignee for purposes of notification only.)	route to said dest property, that even re hereby agreed	ination. It is mutual ery service to be pe to by the shipper a	ly agreed, as to each carrie arformed hereunder shall be	er of all or any subject to all	of said property over a	all or any
	If L LANdFArm, Inc	Shippe		D-Goodwi	intre	enting Ple	ant
	of Eunice Hury   CR C-45	Street	7 mi u	est of Ho	665	N of Ha	wy 188
Destination	Hobbs N.M. Zip 88241			5 N.M.		Zip	
Delivering Ca	n M. Roberts	Trailer In	itial/Number	U.S. DOT	Hazmat	Reg. Number	
No. of packages HM	Description of articles, special marks, and exceptions	Hazard Class	1 .	acking *Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
	Exempt hydrocarbon soil	$\times$	$\sim$	X 20 yol		Ехетрт	+
	EXEMPT MY &RC CARDEN SCIL			20 y &		Exempt	-
	Exempt hyprocarbon soil			20 42		EXEMPT	
2	Example by drocordon 50,1			2042		EXEMAT	
5	EXEMPT by she cansed soil			20 yd 20 yd		Exempt Exempt	
	Exempt hydrocarbod Soil		и м. на	2042		ELONOT	
	EXEMPT hydrocarbon 3011		10. 4.19	ze yd		Exempt	
	EXEMPT NY des CARLEN Scil			20yd		Exempt	
	Exempt hydrocombon Seil			20 ys		Exempt	
		1994 y 14 m W 440 M 18 M 1994 M 1994 M 1994 M 1994	an shall a different distance and the providence of the statements of			MANY - LAN ADM VAN AND AND AND ADMINISTRATING AND AN AND AND AND AN AND AND AND AND A	inte de la constante de constantentes
Remit C.O. Address: City:	D. to: State: Zip:	COD \$	AMT:	Subject to Section 7 of cc shipment is to be delivered to without recourse on the c consignor shall sign the follow The carrier shall not make shipment without payment of	o the consignee consignor, the ng statement: delivery of this	Prepaid	E:
"If the shipment moves betwe Note where the rate is depe The agreed or declared value specifically stated by the ship	per to be not exceeding per per		s Advanced	other lawful charges.			
of Transportation.	above-named materials are properly classified, described, packaged, marked and condition for transports or the property of applicable radiuations of the Department Per			PLACARDS SUPPLIED	YES	NO - FURNISHED B	
	MOCD	CARRII		rt Martin			
PER:	DATE: 6-6-02	EMERG	ENCY RESPO			DATE: <u>6-6-</u>	-02
Permanent post offic	e address of shipper			ous Material is in transportation	including storag	ge incidental to transportat	iion (§172.604).

CONTAINS HAZARDOUS MATERIALS

# **APPENDIX D**

## SITE PHOTOGRAPHS



View of excavation activities at the Goodwin Treating Plant site.



View of Treater being dismantled.



Removal of piping associated with treaters.



View of the excavated areas around the disposal / injection well.



View of excavation activities.



Construction of biopiles at the Goodwin Treating Plant site.



View of biopile at the Goodwin Treating Plant site.



View of hydrocarbon-impacted soils excavated from the Goodwin Treating Plant site.



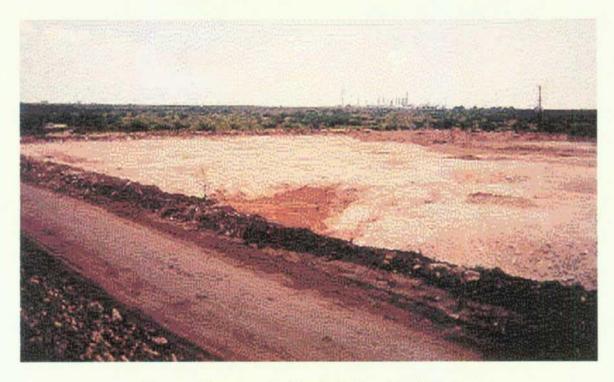
Biopile maintenance, watering and aeration activities.



Biopile maintenance, watering and aeration activities.



Biopile maintenance, watering activities.



Excavated areas at the Goodwin Treating Plant site.

### APPENDIX E

BILL OF LADINGS FOR COW MANURE TRANSPORTED TO THE GOODWIN TREATING PLANT SITE

STRAIGHT BILL OF LADING - SHORT FORM - Origina	al – Not Negotiable	e	
		Shipper's No	
(Carrier) <u>Albert Martinez Trucking</u> SCA Received, subject to the classifications and tariffs in effect on the date of this Bill of Lady g:		Carrier's No.	
at, date the property described below, in apparent good order, except as noted (contents and condition of (the word company being understood throughout this contract as meaning any person or corpor destination. If on the numerical action where the other than the deliver to except a subscription of the deliver to except a subscription.	ation in possession of the pro	perty under the contract) agrees to carry to it	is usual place of delivery at said
destination, if on its own road or its own water line, otherwise to deliver to another carrier on the r portion of said route to destination, and as to each party at any time interested in all or any of said law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which an	property, that every service to	be performed hereunder shall be subject to a	y of said property over all of any Il the conditions not prohibited by
TO: (Mail or street address of consignee for purposes of notification only.)	FROM:		<b>,</b> .
Consignee AMEC	Shipper A/b	ert martinez South 3kd	Trucking
Street Goodwin Treating Plant Destination Hobbs N.M. Zip	Street 5//	SOWIA Ster	
Destination Habbs N.M. Zip Route:	Origin Le.	inster NM	Zip ST260
Delivering Carrier	Trailer Initial/Numi	ber U.S. DOT Hazma	t Reg. Number
No. of HM Description of articles, special marks, and exceptions	Hazard I.D. Class Number	Packing *Weight Group correction rate	Labels required Check (or exemption) column
Manure	$\times$ $\times$	X 20yd	Exempt
Manuve	XX	X 20yel	grownt
MANURE	$\hat{\boldsymbol{x}}$	XD	Enorp.
MANURE	X X	X 20ul	Even pt
MANURE	XX	+ 20,1	Sport
MANURE	XXX	X 20ml	Event
MAINUrk	XX	X 207d	FXert
· · · · · · · · · · · · · · · · · · ·			
			e geoglaphicaeologierinaeta la Arrivertagione e y representatione e la formatione de la companyatione e la comp
Remit C.O.D. to: Address: City: State: Zip:	S AN	consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all	Prepaid
If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight     Note. – where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.     The agreed or declared value of the property is hereby     specifically stated by the shipper to be not exceeding per	<sup>mr.</sup> Charges Advanc \$\$	other lawful charges.	FREIGHT CHARGES
This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.	bs		NO - FURNISHED BY CARRIER
SHIPPER: <u>Albert Mantinez</u> PER: DATE: 6-6-02	CARRIER: H	and my artine z	DATE: 6-6-02
Permanent post office address of shipper	EMERGENCY RE     TELEPHONE NU     Monitored at all times the		,
	worntored at an times the h	nazaiuous malenai is in transportation including stora	ige incluemar to transportation (§172.604).

CONTAINS HAZARDOUS MATERIALS

STRA	AIGHT	FBILL OF LADING – SHORT FORM – Origina	al – Not N	egotiable				
		· · ·			Shipper's No.			
(Carrie Received	er) A	best Mortinez Trucking SCA	C		Carrier's No.			
at					from <u>6 - 6</u>			
the prop (the wo destinat	rd compar tion, if on i	ribed below, in apparent good order, except as noted (contents and condition of ny being understood throughout this contract as meaning any person or corpora its own road or its own water line, otherwise to deliver to another carrier on the rue to destination, and as to each party at any time interested in all or any of said	contents of pac ation in posses oute to said de	kages unknown), m sion of the property stination. It is mutua	arked, consigned, and d under the contract) agreed, as to each ca	estined as indica es to carry to its arrier of all or any	s usual place of delive of said property over	ary at said all or any
	ether print	ted or written, herein contained (as specified in Appendix B to Part 1035) which ar r street address of consignee for purposes of notification only.)	e hereby agree	d to by the shipper a	nd accepted for himself	and his assigns.		
Consig	nee /	AMEC	Shipp	per ALB	ent ma	ANTINE	ir TRN	child
Street	Go	Hobbs NM Zip	Stree	nt 3/1 Sc	0244 3 th	2.1		
Destin Route:		Habbs NM Zip	Origi	n Lovin	gton	Nm	Zip 3826	0
Delive	ring Ca	arrier	   Trailer Iı	nitial/Number	U.S. DO	OT Hazmat	Reg. Number	
No. of packages	НМ	Description of articles, special marks, and exceptions	Hazard Class		acking *Weigh (subject to correction	Class or rate	Labels required (or exemption)	d Check column
1		MANURE	X	$\mathcal{K}$	X	d	Sxempt	
1		MANURE	X	Ϋ́	X 12.40	{	Exemp7	+
		-						
-				าน กระรายวายากระบบความสาย				
					***			
				ar na dhata an				
			*******	NI TERET YAN MUMATIKA MUMATIKA A KAMATA MUTAKA MANA MUMATIKA MA				
							APPENDENT IN A MANUAL AND A MANUAL	
				999-99-9 1999 - York Market I. And Andrew Constraints (Market Market		anti-anton 2 familitary states what advances of two	a de la casa de la cas	
Addre	t C.O.I ess:			AMT:	Subject to Section 7 of shipment is to be delivered without recourse on the consignor shall sign the fol The carrier shall not m	d to the consignee e consignor, the owing statement:	Prepaid	E:
Note where the	he rate is deper	n two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight noten to value, shippers are required to state specifically in writing the agreed or declared value of the property. of the property is hereby.	Charge	es Advanced	shipment without paymer other lawful charges.	t of freight and all	FREIGHT CH	ARGES
This is to ce	rtify that the are in proper	er to be not exceeding per per bove-named materials are properly classified, described, packaged, marked and placted and condition for transportation according to the applicable regulations of the Department Per Per	\$ os		(Signature of co PLACARDS SUPPLIED	YES	NO - FURNISHED	
		TRUCTIONS:		Aller.	it mARTING			
		DATE:	PER: .	Fm	Bah		DATE: 6-6	-02
Permaner	nt post offic	e address of shipper	TELEF	GENCY RESP PHONE NUMBI at all times the Hazard	, , , , , , , , , , , , , , , , ,	tion including stora	ge incidental to transporta	ation (§172.604).
					· · · · · · · · · · · · · · · · · · ·			

÷ T

CONTAINS HAZARDOUS MATERIALS

STRAIG	HT BILL OF LADING - SHORT FORM - Origina	al – Not N	egotiable			<u> </u>	
			- <u>-</u>		·		
				Shipper's No.		<u> </u>	
(Carrier)	<u>Albert Martinez Truckins</u> CA of to the classifications and tariffs in effect on the date of this Bill of Lading:	C		. Carrier's No			
			/ -			-1	
at	sscribed below, in apparent good order, except as noted (contents and condition of	6 -/	(-) Z		ned as indicate	ed below, which said of	company
<ul> <li>(the word con destination, if</li> </ul>	npany being understood throughout this contract as meaning any person or corpor- on its own road or its own water line, otherwise to deliver to another carrier on the r froute to destination, and as to each party at any time interested in all or any of said	ation in possess route to said des	tination. It is mutua	under the contract) agrees ally agreed, as to each carrie	to carry to its	of said property over a	all or any
law, whether p	in or street address of consignee for purposes of notification only.)	re hereby agreed	I to by the shipper a	and accepted for himself and	his assigns.		
	AMEC			nt Mantin	07 T	rarkin	0
		- <u>Snipp</u>	2//	rt Martin	- <u> </u>	· · · · · · · · ·	
Street (>-	Hobbs N. MZip	1		,			
Destination Route:	HOBBS N. MZip	Origir	horin	gton N	M.	Zip	
Delivering	Carrier	i railer Ir	itial/Number		Hazmat	Reg. Number	
No. of HN	Description of articles, special marks, and exceptions	Hazard Class		Cacking *Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
1.	Manure	$\mathbf{X}$	$\sim$	Xzovd	$\mathbf{X}$	Exempt	X
·····		X	X	X 20 ml	X	Sto. At	X
namment, ar frinner flatte mener i der söllanderhande som	MANURE		X I	2000		Crempt 4	K
	MANURE	$\mathbf{A}$	$\sim$		K	CREMPI	
	MANURE	X	XX	a Duy.	X	(Kempt	
	MANURE	$\mathcal{N}$	X	X 2Oyd	X	Kempt	
17. 17. 17. 17. 17. 17. 17. 17. 17. 17.	MANURE	X	$\times$	X Doyd.	X	Exempt	$\mathcal{X}$
	MANURE	X	$\times$	X 20yd	X	Exempt	X
	MANURO	$ \chi $	$\mathbf{x}$	X 20yd	X	Exempt	K
	МАЛИКЕ	X	X	X Dud	ÍV	Exempt	K
					1		
		• · · • • • · · ·		nak na mana an an ak ak an		tan an a	
Demit O				Subject to Section 7 of co	anditions, if this		 E.
Remit C.0 Address:	·		AMT:	chipmont is to be delivered to	o the consignee consignor, the ng statement:	C. O. D. FE Prepaid	C.
City: *If the shipment moves to Note. – where the rate is	State: Zip: etween two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's we dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.	\$ <sup>Int.</sup> Charge	s Advanced	shipment without payment of	freight and all	Collect S	ARGES
The agreed or declared specifically stated by the This is to certify that	value of the property is hereby per per	\$		(Signature of consig		Prepaid	Collect
labeled, and are in pr of Transportation.	Per_			PLACARDS SUPPLIED	DRIVER'S S	NO - FURNISHED B	Y CARRIER
SPECIAL II SHIPPER:	NSTRUCTIONS:	CARR	IER: Albe	rt, Martine	eztr	ucking	2
PER:	DATE:	PER: .	aller	MA		DATE: 671	1-82_
Permanent post	office address of shipper	TELEF	GENCY RESP HONE NUMB at all times the Hazar		including stored	e incidental to transportat	tion (§172.604).
				and a realized to an anapoint allo	and any storag		
		ZARDOUS	S MATERIA	<b>LS</b>			

STRAIG	HT BILL OF LADING - SHORT FORM - Origin	al – Not Ne	gotiable		· ·		:
	······································		J	Shinnor's Ma			
	All $+$ $(1)$ $ (1)$			Shipper's No.			
(Carrier) Received, subje	<u>Albert Manfinez Trucking</u> SCA ect to the classifications and tariffs in effect on the date of this Bill of Lading	\C		Carrier's No		· · ·	
at	date	6-12	-02	from			
the property (the word co	described below, in apparent good order, except as noted (contents and condition of propany being understood throughout this contract as meaning any person or corpor-	f contents of packa ration in possession	ages unknown), mains of the property	arked, consigned, and des under the contract) agree	s to carry to its	s usual place of deliver	ry at said
portion of sai	if on its own road or its own water line, otherwise to deliver to another carrier on the id route to destination, and as to each party at any time interested in all or any of said printed or written, herein contained (as specified in Appendix B to Part 1035) which a	d property, that eve	ry service to be po	erformed hereunder shall i	pe subject to all	the conditions not proh	all or any nibited by
10.	ail or street address of consignee for purposes of notification only.)	FROM					
	AMSC	Shippe	orAlber	t Martin	nez T	rackin	9
Street G	in Hobbs N.M. zip	Street	311 500	t Martin		/	
Destinatio	in Habbe N. M. Zin			gton N.			
Route:		Ongin	/	77.0	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	- <del>11 - 61 814</del>
Delivering	) Carrier	Trailer Ini	tial/Number	U.S. DO	T Hazmat	Reg. Number	
No. of	M Description of articles, special marks, and exceptions	Hazard	I.D. P	acking *Weight	Class or	Labels required	Check
ckages' <b>FI</b>	<ul> <li>A second sec second second sec</li></ul>	Class	Number	Group (subject to correction)	rate	(or exemption)	column
6	Manure		X	X 20 Yd	Δ	Exempt	$ \Delta $
	MANARE	·		20 x		Exent	
	MANLEE			20yd		Exempt	
	MANURE			20-40		EXEMIT	
							1
	*****					1011/1011/0011111111111111111111111111	_
					ure in . In feature internet grant from Alicenter, they go and		
	***************************************		NUT ANTICACIONES DE L'ANTICE DE LAS PARTIES D'ANTI	THE REAL POINT OF THE ADDRESS OF A DECEMBER OF A	* 15 Aug 2012 2013 2014 2014 2014 2014 2014 2014 2014 2014	100 (2000) 10 - COMPANY -	
				11 * 1 1111 111 111 111 111 11 11 11 11	• • • • • • • • • • • • • • • • • • •	an guya aya ka	
	.O.D. to:	COD	A N AT-	Subject to Section 7 of shipment is to be delivered	to the consignee		E:
Address City:	State: Zip:	\$	AMT:	without recourse on the consignor shall sign the follo The carrier shall not ma shipment without payment	consignor, the wing statement: ke delivery of this	Prepaid	
the shipment moves ite. – where the rate e agreed or declared	between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's wi Is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. A value of the property is hereby	eight. Charge	s Advanced	other lawful charges.	_	FREIGHT CH	ARGES
ecifically stated by th his is to certify th	he shipper to be not exceeding per Tat the above-named materials are properly classified, described, packaged, marked and broper condition for trainsportation according to the applicable regulations of the Department PLACAR			(Signature of con PLACARDS	signor) YES	NO - FURNISHED E	
		ED		SUPPLIED	DRIVER'S	SIGNATURE:	
SHIPPER:				rt Marti	nez	Truckin	19
PER:	DATE:	-	ENCY RESP	ONSE		DATE: 6-12	-02
Permanent pos	st office address of shipper	TELEP Monitored a	HONE NUMB	ER:) dous Material is in transportati	on including stora	ge incidental to transporta	tion (§172.604
Les							
	CONTAINS HA	ZARDOUS	MATERIA	LS		n a ha h	

STRA	IGHT BILL OF LADING - S	HORT FORM – Origin	al Not No	aotiable	) }		·· ·		
		engin		3	-				
					Shipp	er's No. <sub>-</sub>			
(Carrie	er) <u>Martinez</u> TR subject to the classifications and tariffs in effect on th	JCKing SCA	AC		Carrie	er's No			
Theoenved,		le date of this bill of Lading.							
at	perty described below, in apparent good order, excep	, date t as noted (contents and condition o	f contents of pack	ages unknown	from	signed, and des	tined as indicat	ed below, which said c	company
destinat portion	rd company being understood throughout this contra ion, if on its own road or its own water line, otherwis of said route to destination, and as to each party at a ther printed or written, herein contained (as specifier	e to deliver to another carrier on the ny time interested in all or any of said	route to said des property, that ev	ination. It is m	utually agreed, be performed h	as to each can ereunder shall t	ier of all or any be subject to all	of said property over a	ll or any
TO:	(Mail or street address of consignee for purp		FRO				u ilis assigns.		
Consig	nee Amec		Shipp	er Al Z	bert	mar	tive	2	
Street	Goodwin TRect .:	ng plant				4 3			
Destin	ation Hobb Nm	Zip				on		Zip	
Route:	· · · · ·								
Delive	ring Carrier			itial/Numb	ber	U.S. DO	T Hazmat	Reg. Number	
No. of	HM Description of articles, specia	I marks, and exceptions	Hazard Class	I.D. Number	Packing Group	*Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check
			X	X	X	20	X	FY0.	
	Manure		X	X	V		P	Exempt	
	MANYIZE			<u> </u>	X	20	1	Exempt	ie ie
	MANGRE		<u> </u>	_X	<u> </u>	20	X	Exempt	
]	MANURE		X	×	<u> </u>	20	X	Exempt	X
	MANYRE			<u>    {                                </u>	X	20	K	Exempt	X
	MANYAL			<u>Х</u>	X	20	X	Exempt	X
	MANURE		<u>×</u>	<u> </u>	X	20	X	Exempt	X
	MANURE		X	X	X	20	X	Exempt	X
			onnad mit auf Bennin y Agens Phr. "Nonsweite simolis and	and a set of the set of					
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	······································					t t dat - tatos ar ing a ang		ana a dan mammuna mar ar ang at a ani mining man t	
	(5) A second production of the second production of the second production of the second product of the seco		، د بسر مر	ina ana ana kaominina dia 31 meta	Ana and an		w Nam. v 7. , Manua a 7	a nga a sang pang pang pang ang ang ang ang ang ang ang ang ang	
	t C.O.D. to:		COD	AM	shipment	ct to Section 7 of is to be delivered	to the consignee	C. O. D. FE	E:
Addre City:	State:	Zip:	\$		consignor The c shipment	recourse on the shall sign the follo arrier shall not mal without payment	ke delivery of this	Prepaid Collect \$	
Note. – where t The agreed or a	moves between two ports by a carrier by water, the law requires that the bill on he rate is dependent on value, shippers are required to state specifically in writ declared value of the property is hereby ed by the shipper to be not exceeding	f lading shall state whether it is "carrier's or shipper's wing the agreed or declared value of the property.	elghr. Charge	s Advanc	ed	ul charges.	signor)	FREIGHT CH	
This is to ce	rtify that the above-named materials are properly classified, descr are in proper condition for transportation according to the applicable tion.	Ibed, packaged, marked and regulations of the Department REQUIR	DS				YES		
		······································			·····				
SHIPP PER: _	'ER:	DATE:		ER:	hard	Z	~	DATE: 6-29-	02
	······		TELEP	GENCY RE	MBER:	()			
Permane	nt post office address of shipper		Monitored	at all times the H	lazardous Materia	al is in transportation	on including stora	ge incidental to transportati	ion (§172.604).

ł

İ

CONTAINS HAZARDOUS MATERI

STRAIGHT BILL OF LAD		- Original -						· . · · ·	
					Shipp	er's No			
(Carrier) Mactin cz	TRUCKING	SCAC			•••				
(Carrier) Mertincz Received, subject to the classifications and tari	ffs in effect on the date of this Bill of Ladi	007101. ing:				a 3 NO			
at		_, date			_ from _				
the property described below, in apparent go (the word company being understood throug destination, if on its own road or its own wat portion of said route to destination, and as to law, whether printed or written, herein contai	phout this contract as meaning any pers er line, otherwise to deliver to another c each party at any time interested in all of	son or corporation arrier on the route or any of said prop	in possession to said destir perty, that even	n of the propert ation. It is mutu y service to be	y under the ally agreed, performed he	contract) agrees as to each carrie ereunder shall be	to carry to its r of all or any subject to all t	usual place of delivery of said property over a	/ at said II or any
	ignee for purposes of notification o						nio uoorgino.		
Consignee Amec			Shippe	Alba	ert	marti	NCZ		
Street Gasdwin 7	Reating Plan	+	1			<u>ma-ti</u> th 3			
Destination Hobbs N Route:	и Zip		Origin	LOUN	vg ti	0~ /	UM :	Zip	
Delivering Carrier		-	railer Init	ial/Numbe	r	U.S. DOT	Hazmat	Reg. Number	
No. of HM Description of arti	cles, special marks, and exc		azard Class		Packing Group	*Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column
Manure			X	$\times$	X	20	X	Exempt	$\boldsymbol{\mathcal{X}}$
	~~		X	X	¥	20	X	Exempt	X
- Man	10 x - R.		Ϋ́	X	χ	20	X	Exent	X
- mai	- and		Ý	X	X	20	7	6xml	X
ma	nure		$\times$	7	_Y	20	<u>}</u>	Crempt	
- ma	nuve		∠	Ύ	Υ	20	X	Exempt	ΙX.
- ma	nure		×	$\gamma$	¥	20	×	Exempt	1×
+ m	anure.		У	Y	Ύ	20	Х	Exempt	X
- Manu	anure ve	×	<b>,</b>	Ύ	<u>,</u> Х	20	¥	Exempt	Y.
	.,		man pa a a a d' a a d' d' a a d' a d' a d'		National International States of State	· · · · · · · · · · · · · · · · · · ·			
		м 182 г. г		· · · · ·		10 Wald wat 17 at 24.5 Aros views 16.		er men – 1. sej man an sela er ma 2. m v 1. m 1. 1.	
Remit <sup>*</sup> C.O.D. to: Address:			COD	AMT	shipment i without r consignor	t to Section 7 of co s to be delivered to ecourse on the c shall sign the followi urrier shall not make	the consignee onsignor, the ng statement:	C. O. D. FE	E:
City: "If the shipment moves between two ports by a carrier by water, the la Note. – where the rate is dependent on value, shippers are required to The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding			\$ Charges \$	Advanced	shipment	without payment of al charges.	freight and all	Collect S FREIGHT CH Prepaid	
specifically stated by the sinpper to be not exceeding This is to certify that the above-named materials are prop tabeled, and are in proper condition for transportation accord of Transportation.	por portassified, described, packaged, marked and ing to the applicable regulations of the Department	PLACARDS REQUIRED	Ŧ				YES	NO - FURNISHED B	
SPECIAL INSTRUCTIONS:			Z				DRIVER'S S		
SHIPPER: PER:	DATE:	· · · · · · · · · · · · · · · · · · ·	TELEPH		BER:(	fan	fme	Z DATE: 6-2	9-02
Permanent post office address of shipper						l is in transportation	including storag	e incidental to transportal	ion (§172.604).
	CONTA	INS HAZA	RDOUS	MATERI	ALS				

TRAIGHT BILL OF LADING – SHORT FORM – Origina		
	Shipper's No	
Carrier Martinez TRUCKiNG SCA	AC Carrier's No	
Carrier) <u>MartiNez</u> <u>TRUCKiNg</u> SCA eceived, subject to the classifications and tariffs in effect on the date of this Bill of Lading:		
.t, date	e from	
(the word company being understood throughout this contract as meaning any person or corpor destination, if on its own road or its own water line, otherwise to deliver to another carrier on the	of contents of packages unknown), marked, consigned, and destined as indicated below, which said cour- oration in possession of the property under the contract) agrees to carry to its usual place of delivery a e route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all d property, that every service to be performed hereunder shall be subject to all the conditions not prohibi	at said or any
O: (Mail or street address of consignee for purposes of notification only.)	FROM:	
Consignee Amec	Shipper Albert Martinez	
Street Goodw. N TRECTING Plant	Street 31/ SOUTH 3Rd	
Destination Hobbs arm Zip	Origin Louington NM Zip	
Route:		
Delivering Carrier	Trailer Initial/Number U.S. DOT Hazmat Reg. Number	
lo, of ckages HM Description of articles, special marks, and exceptions	(outpicet to	Chec colun
manure	XXX 20 X Exempt	$\overline{X}$
MANUNC	X X X DOWX French	X
MANURE	X X X DOYN Y SYPHOT	X
MANGAR	XXX Doud X Svenet	Ŧ
MArune	XXXX Dyd X Exempt	X
MANURE	X X X Dur X Svenot	K
MANURE	XXX Doyd X Exempt	X
		a naga nga mangang nga mang
Remit C.O.D. to: Address:	COD AMT: Subject to Section 7 of conditions, if this stipment is to be delivered to the consigner without recourse on the consigner the consigner the consigner that sign the following statement:	
City: State: Zip: the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's we te where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. a agreed or declared value of the property is hereby	S         The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.         Collect S           weight.         Charges Advanced         FREIGHT CHA	
ecifically stated by the shipper to be not exceeding per per per per per		
Transportation. PerREQUIRE SPECIAL INSTRUCTIONS:	ED DRIVER'S SIGNATURE:	
SHIPPER:	CARRIER: alphror Mark	
PER: DATE:	EMERGENCY RESPONSE	.00
Permanent post office address of shipper	TELEPHONE NUMBER: () Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation	n (§172.

**IS HAZARDO** n Öh

STRAIGH	IT BILL OF LADING - SI	HORT FORM – Origina	I – Not N	egotiable					<b>.</b>
		Ç		_ `	Ship	oer's No			,
(Carrier)	Albert Martine	> TRUCKING GRAD				er's No			
Received, subject	t to the classifications and tariffs in effect on the	e date of this Bill of Lading:				ei 3 No			-
at	scribed below, in apparent good order, except	, date			from			ad below, which could o	
<ul> <li>(the word comp destination, if c</li> </ul>	pany being understood throughout this contra no its own road or its own water line, otherwise route to destination, and as to each party at ar	ct as meaning any person or corporate to deliver to another carrier on the ro	tion in possess oute to said des	ion of the prope tination. It is mu	erty under the itually agreed	contract) agrees , as to each carri	to carry to its er of all or any	s usual place of delivery of said property over a	r at said Il or any
law, whether p	or street address of consignee for purp	in Appendix B to Part 1035) which are	hereby agree	to by the shipp	er and accep	led for himself an	d his assigns.		
Consignee	Amerc		Shipp	er .A16	ect n	nartin	c 7.		
		Plaut	1			44 3 R			:
	odwin TReating					INN		Zip	
Route:	Hobbs N.m	ZID 0 8 24 U		12011	19 TON	NW	/		
Delivering (	Carrier	د: ۲	-	itial/Numb	ər	U.S. DO	r Hazmat	Reg. Number	
No. of Dackages HM	Description of articles, specia		Hazard	() I.D.	2 Packing	*Weight	Class or	Labels required	Check
packages TIVI	Description of articles, specia			Number	Group	(subject to correction)	irate ∿ V	(or exemption)	column
	Manure				1.	20	1	Exempt	-1
	Munure		X	X	X	20	X	Exempt	X
	Manure	•.	X	X	X	20	X	Exempt	X
	Manure		X	X	X	20	X	Exempt	X
	Manyre		<u>入</u>	X	X.	20	X	Exempt	X
	Manure		X	X	X	20	$\times$	Exempt	X
							·	X	
				-					
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			na an an tao				-
	и и при при при при при при при при при				ana ann a' faoiltean a' Aonaine a' Annaine an Ann	n dan permanakan permanakan keranakan kerana sebuah sebuah sebuah sebuah sebuah sebuah sebuah sebuah sebuah seb	Na na na patana kata a manapaga pangana apa a	ann ann ann ann an suidheanna, and tan a thu ann a thu ann a tha suid ann ann an suid ann ann ann ann ann ann a	-
					te and all defense to Mar. 1995 an official		-	annes a samatanan ang ang ang ang ang ang ang ang ang	-
		an in the second s	an antar a tha a sum a		ar yana katalah katu katu		and states to an eventuation	arteresioners i contante a sobre momente con sobre de la co	
Remit C.C		·			Subje	ict to Section 7 of c	onditions, if this the consignee	C. O. D. FEI	E:
Address: City:	State:	Zip:	SOL	AM	consigned The	recourse on the or rshall sign the follow carrier shall not make t without payment of	consignor, the ing statement: a delivery of this	Prepaid 🗌	
Note where the rate is d The agreed or declared va	tween two ports by a carrier by water, the law requires that the bill of ependent on value, shippers are required to state specifically in writin fue of the property is hereby	g the agreed or declared value of the property.	* Charge	es Advance	other law	ful charges.		FREIGHT CH	
This is to certify that	hipper to be not exceeding	per ed, packaged, marked and gulations of the Department REQUIRED	S.			(Signature of consi PLACARDS SUPPLIED	YES	NO - FURNISHED B	
SPECIAL IN	ISTRUCTIONS:							SIGNATURE:	
SHIPPER: _ PER:		DATE:	CARR PER;	LERVALL	ert	mart	inez	DATE: 6-29	1-02
			TELEF	GENCY RES	1BER:	()			
spost o	fflice address of shipper		Monitored	at all times the Ha	zardous Materi	al is in transportation	n including stora	ge incidental to transportation	on (§172.604).
		CONTAINS HAZ		S MATER					

# APPENDIX F

# SOIL TESTING ANALYTICAL DATA (BTEX & TPH)

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: June 19, 2002Order Number: A020610122-517-000051Goodwin Treating Plant

Page Number: 1 of 1 8 Miles West of Hobbs, NM

### Summary Report

Martyne KielingReport Date:June 19, 2002OCD Hobbs Office1625 N. French Drive1625 N. French DriveHobbs, NM 88240Order ID Number:A02061012

Project Number:2-517-000051Project Name:Goodwin Treating PlantProject Location:8 Miles West of Hobbs, NM

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
198916	060502-01	Soil	6/5/02	8:45	6/8/02
198917	060502-02	Soil	6/5/02	10:40	6/8/02
198918	060502-03	Soil	6/5/02	12:10	6/8/02
198919	060502-04	Soil	6/5/02	13:30	6/8/02
198920	060502-05	Soil	6/7/02	8:25	6/8/02
198921	060502-06	Soil	6/7/02	8:30	6/8/02
198922	060502-07	Soil	6/7/02	9:25	6/8/02
198923	060502-08	Soil	6/7/02	9:35	6/8/02

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

	TPH DRO	TPH GRO
	DRO	GRO
Sample - Field Code	(mdd)	(ענגנס)
198916 - 060502-01	<50.0	<1
198917 - 060502-02	171	12.7
198918 - 060502-03	122	2.86
198919 - 060502-04	<50.0	<1
198920 - 060502-05	<50.0	<1
198921 - 060502-06	59.4	<1
198922 - 060502-07	<b>&lt;</b> 5D.0	<1
198923 - 060502-08	<50.0	<1

065     474-3488       06ct Name:     N       N     744-3488       N     744-3488       N     744-3488       N     744-3488       N     744-71-6       N     746-71-70       N     746-71-70       N     100       N   <	Али
Нова, ил 3310         Нова, и	ICLP Perilicides     ICLP Semi Volatiles       ICLP Semi Volatiles     ICLP Semi Volatiles       ICLP Metals Ag As Ba Cd Ct Pb Se Hg 60106/200.7       ICLP Metals Ag As Cd Ct Pb Se Hg 60106/200.7 </th
Павено	AIR     AIR     MATRX       AIR     AIR     AIR       AIR     AIR <t< th=""></t<>
Image: Second	AIR     AIR     MATRX     AIR       AIR     AIR     AIR     AIR       AIR     AIR     A
Project Name:         Project Name:         Project Name:           Project Name:         Project Name:	AIR     AIR     AIR     AIR     AIR       AIR     AIR
Holice         Holice<	000List     AIR     MATRX     MATRX       Sampler Signature:     Sampler Signature:     Sampler Signature:       Sampler Si
Creating and the state of the stat	AIR     AIR
Матник	Маничист
Паве         Паве <t< td=""><td>AIR     AIR       AIR     AIR</td></t<>	AIR     AIR
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	V     6/57a     03445     V       V     6/57a     03445     V       V     6/57a     03445     V       V     1/56a     10.100     V       V     1/56a     13.300     V       V     6/57a     0345     V       V     1/56a     13.300     V       V     6/57a     0345     V
$1$ $4_{02}$ $\nu$ $\zeta_{Sys}$ $1_{10}$ $\nu$ $\zeta_{Sys}$ $\omega_{Sys}$ $\nu$ $\omega_{Sys}$ $\omega_{Sys}$ $\nu$ $\omega_{Sys}$ $\omega_{Sys}$ $\nu$ $\omega_{Sys}$	V (25/02. 10400 V V 215/02. 11:10 V V 215/02. 11:10 V V 215/02. 17:10 V V 215/02. 032.5 V 217/03. 032.5 V 217/03. 032.5 V
I $4_{0-2}$ V       I $U_{0-2}$ V       V $U_{2,6,0}$ $N_{10}$ V $V_{1,0,0}$ $V$	V 415461 1110 V 615162 1330 V 617162 0315
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	V 2/5/45 1330
$\left  \begin{array}{c c c c c c c c c c c c c c c c c c c $	5750 10/1/7 / /
I     Hoz     V     Crian or 3x     V       1     Hoz     V     U/103 Opt     V       1     Hoz     V     V     U/103 Opt       1     Hoz     V     V     U/104 Opt       1     Hoz     V     V	× 101 32
I         Hor         V         V         V/1/1/2         V         V         V/1/1/2         V         V         V/1/2         V         V         V/1/2         V         V         V/1/2         V         V         V/1/2         V         V         V         V/1/2         V         V         V         V/1/2         V         V         V         V/1/2         V <td></td>	
1     4.0.2     1     4.0.2     1     1       1     4.0.2     1     1     1     1       1     4.0.2     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1	N (1.1/03-02-72
Time:     Received by:     Date:     Time:     LAB USE       7% > 11: av     Imat     Imat     Imat     Imat       Time:     Received by:     Date:     Time:     Imat	SC60 19/1/7
Time:     Received by:     Date:     Time:     LAB USE       7/ex     11: ao     0NEY       Time:     Received by:     Date:     Time:	
Time: Received by: Date: Time: LABUSE 7/6+ 11: 20 Time: Received by: Date: Time: Inter 14audingoe V 7 N	
Mov. It: ac     Received by:     Date:     Ime:       Imme:     Received by:     Date:     Imat	te: Tune: LAB USE
Time: Received by: Date: Time:	
	Date: Time:
Annual Company of the	

#### 00/13/2007 03:31 8

8661841588

#### TRACEANALYSIS

PAGE 01

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1298

Redwood Taaks

June 18, 2002

Page Number: 1 of J

Report Date: June 18, 2002Order Number: A02061403 Goodwin Treating Plant Goodwin

#### Summary Report

Martyne Kieling OCD 1220 S. Seint Francis Dr. Sante Fe, NM 87505

.

Order ID Number: A02061403

Report Date:

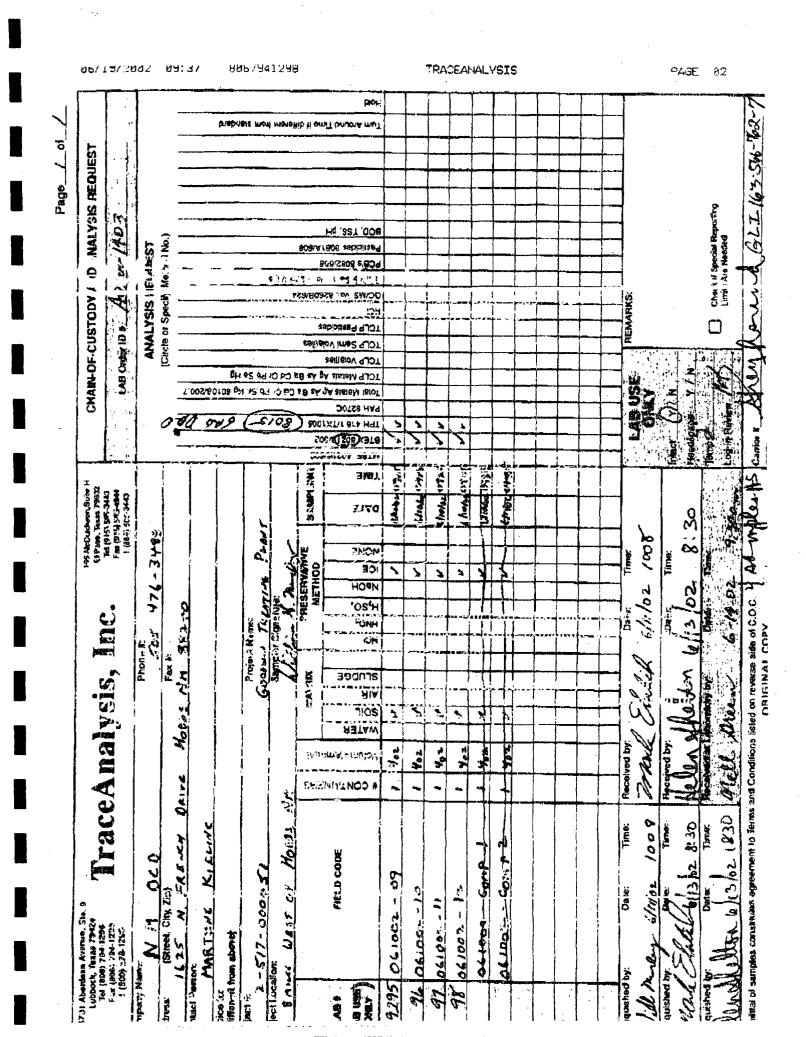
Project Number: Goodwin Treating Plant Project Name: Guodwin Project Location: Redwood Tanks

			Litte	Time	Date
Sample	Description	Matrix	"laten	Taken	Received
199295	081002-09	Soil	6/10/02	9:15	6/14/02
199296	261002-10	Soil	6/10/02	9:18	6/14/02
109297	051002-11	Sail	6/10/42	9:25	3/14/02
19921-6	061002-12	Boil	0/10/1/2	9:26	\$12.4/32

I) This report consists of a toral of a page(s) and is intended only as a summary of retuins for the soundic(s) house sources.

· · · · · · · · · · · · · · · · · · ·			BITEX			TPH DRG ;	TPH GRO
	D	Tul. and	"At he off and an a	3. OC-Viime	The BTRY	ဂ္ဂာစဂ	21910
Sample - Field Code	(ppm)	(p. m)	( <b>pp</b> m)	(M.m)	(ppm)	(ppm)	(p;m)
1997393 + U01002-09	<0.010	0.014	U.U.L.U.	Ų.vi.11	0.04992	04.7	×. (
1 220396 - 061002-10	<0.010	<0.010	0.0102	0.6104	0.0206		<3
199297 - 061002-11	<0.010	< 9.01.9	<0.010	<0.010	<0.010	57.2	<2.
100704 - Dit00/_12	<u>-0 ma</u>	-0.010	-0.010	<b>&lt;0</b> 010	CD.01.0	-200	<i l<="" td=""></i>

This is only a summary. Places, more to the complete regist sachage for quality control date.



TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: July 9, 2002Order Number: A02062409 2-517-000051Goodwin Treating Plant

Page Number: 1 of 1 8 Miles West of Hobbs, NM

### Summary Report

Martyne Kieling OCD Hobbs Office 1625 N. French Drive Hobbs, NM 88240

Order ID Number: A02062409

Report Date:

July 9, 2002

Project Number: 2-517-000051 Project Name: Goodwin Treating Plant Project Location: 8 Miles West of Hobbs, NM

			Date	Time	$\mathbf{Date}$
Sample	Description	Matrix	Taken	Taken	Received
199901	062102-13	Soil	6/21/02	9:47	6/22/02
199902	062102-14	Soil	6/21/02	9:52	6/22/02
199903	062102-15	Soil	6/21/02	10:55	6/22/02
199904	062102-16	Soil	6/21/02	11:00	6/22/02
199905	062102-17	Soil	6/21/02	11:04	6/22/02
199906	062102-18	Soil	6/21/02	11:12	6/22/02
199907	062102-19	Soil	6/21/02	11:17	6/22/02
199908	062102-20	Soil	6/21/02	11:27	6/22/02
199909	062102-21	Soil	6/21/02	11:32	6/22/02

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

1			BTEX			TPH DRO	TPH GRO
	Bcnzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	DRO	GRO
Sample - Field Code	(ppm)	(ppm)	(ppm)	(ուզզ)	(ppm)	(ppm)	(ppm)
199901 - 062102-13	< 0.010	< 0.010	<0.010	< 0.010	< 0.010	69.8	<1.00
199902 - 062102-14	<0.010	<0.010	<0.010	<0.010	<0.010	109	<1.00
199903 - 062102-15	< 0.010	<0.010	<0.010	0,0106	0.0106	179	<1.00
199904 - 062102-16	<0.010	<0.010	0.0167	0.0393	0.056	1960	12.5
199905 - 062102-17	<0.010	<0.010	<0.010	<0.010	<0.010	<50	2.32
199906 - 062102-18	<0.010	<0.01.0	<0.010	<0.010	<0.010	<50	<1.00
199907 - 062102-19	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1.00
199908 - 062102-20	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1.00
199909 - 062102-21	<0.010	<0.010	<0.010	<0.010	<0.010	1530	<1.00

A LAB Order ID #	6H PS Q2 2,002/80109 6H PS Q2	54 54 99 CQ.CL	2001 X 2005 28 Solo 29 Solo 29 Solo 29 Solo 29 Solo 29 Solo 29 Solo 20	тен 418 1/г Эблав НАЧ	7						LAB USE REMARKS ONLY	EOE0	Check II Special Reporting
Paso lexas /9932 el (915) 585-3449 at (915) 585-3449 (1069) 588 3443 (1069) 588 548 (1069) 588 548 (			SAMPLING SAMPLING	NOVE DATE TIME MIRE 80216 B15X 80216	Line of	1. St.		21	 and the second			le: E litero	E TEND
S; Inc. The second s	L Fro	<u>6 00 0 01 4 1 7 7 7 1 1 6</u> Sampler Signature: 2010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	X X METHOD	IGE NªOH HìSOY HNO <sup>3</sup> HCI	•						Date: Time	Date Time	a and a contract of the second se
raceAnalySiS, Phone		000	MAT	NATER SOIL WATER								<u>by:</u>	Received at Laboratory by:
CeAn?			SHal	MATHOU #						<b>1</b>	Received by	E Received: by	
2041206 7941206 7941206 761296 761296 761296 761296 7617200	r K K	001057		FIELD CODE				8	. 20		Date:	Date:	Date: Time

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: July 9, 2002Order Number: A020626162-517-000051Goodwin Treating Plant

Page Number: 1 of 1 8 Miles West of Hobbs, NM

## **Summary Report**

Report Date:

July 9, 2002

Order ID Number: A02062616

Martyne Kieling OCD Hobbs Office 1625 N. French Drive Hobbs, NM 88240

Project Number:2-517-000051Project Name:Goodwin Treating PlantProject Location:8 Miles West of Hobbs, NM

			Date	Time	Date
Sample	Description	Matrix	Taken	Teken	Received
200156	062502-1	Soil	6/25/02	10:50	6/26/02
200157	062502-2	Soil	6/25/02	10:54	6/26/02
200158	062502-3	Soil	6/25/02	11:00	6/26/02
200159	062502-4	Soil	6/25/02	11:04	6/26/02
200160	062502-5	Soil	6/25/02	11:10	6/26/02
200161	062502-6	Soil	6/25/02	11:14	6/26/02
200162	062502-7	Soil	6/25/02	11:17	6/26/02
200163	062502-8	Soil	6/25/02	11:20	6/26/02
200164	062502-24	Soil	6/25/02	12:30	6/26/02
200165	062502-22	Soil	6/25/02	12:17	6/26/02
200166	062502-23	Soil	6/25/02	12:20	6/26/02
200167	062502-25	Soil	6/25/02	15:20	6/26/02

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

			BTEX			TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	DRO	GRO
Sample - Field Code	(ppm)	(ppm)	(ppm)	(ppm)	(mqq)	(mqq)	(ppm)
200156 - 062502-1	<0.010	0.126	0.0364	0.032	0.194	<50,0	1.23
200157 - 062502-2	<0.010	<0.010	<0.010	0.0172	0.0172	125	1.55
200158 - 062502-3	<0.010	< 0.010	<0.010	<0.010	<0.010	<50.0	<1
200159 - 062502-4	< 0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1
200160 - 062502-5	<0.010	< 0.010	<0.010	<0.010	<0.010	<50.0	<1
200161 - 062502-6	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1
2001.62 - 062502-7	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1
200163 - 062502-8	<0.010	<0.010	<0.010	< 0.010	<0.010	<50.0	<1
200164 - 062502-24	<0.010	<0.010	0.0104	0.0109	0.0213	<50.0	<1
200165 - 062502-22	<0.010	<0.010	<0.010	0.0104	0.0104	<50.0	<1
200166 - 062502-23	<0.010	<0.010	0.0104	0.012	0.0224	<50.0	<1
200167 - 062502-25	<0.010	<0.010	< 0.010	<0.010	<0.010	<50.0	<1

											ploH						_YSI							Deo 1	PA	GE 23	Ť
+	 				brabi	18f2 m	oul In	ifferer	b li err	iiT bri	Turn Arol												ſ		<b>)</b> 		
REQUEST	0																							un BRK	)		
SIS RE			-											_					-					75	(		
ANALYSIS	1091	ST ST	[.024						803\A		Pesticide													1 miles	۲ د د	adad Hep	
ND A	10000000	EQUE					52	9/202			PCB'€ 80 GC/MS 5													anert	ر ار	Check II Speejal Repon Limits Are Needed	
CHAIN-OF-CUSTODY AND	F	ANALYSIS REQUEST	Curcle of specify Method Wo.)					•	29/809	01. 821	GC/M2 /												REMARKS:	22		E C	
CUST	e D	NALY	Cie or 2								TCLP Sai												BEN	<u>بر</u>			$\neq$
N-OF-	LAB Order 10 4	A S			_					A aløi	тсгь ую тсгь ме		<u>.</u>		<b>.</b>						_		ш.		N /		
CHAI	<b>≦</b>		-				_		6 <b>9</b> 8À		758 HA9 798 Ma9											$\Box$	SIN	Nr Nr	N N N		
			4	791	036	' w_	510	25			08 XƏTB 814 H9T	ix v v	·× ·	א: ה	ドン	34	<u>}</u>	2/2 - J	×4 . '	X	X	X		0	Headspace	Temp. Log-in Rev	
						T	Т	_	_	9/8120	TIME 80	1050	1054	1100	4	0	וויל	12	ล	1230		120		<u> </u>		Temp	
55 McCutcheon, Suita H El Paso, Texas 79932	15-3443 35-4944 3-3443	2					ł		SAMPLING	-	3TAG	6/ 20/2 10	012052/7	Glader 11	12 In lou	6/29/2010	4/20/02 II	dista 111	6/2/00 1120	2500-42	402121	(1976)	ر. ۱	9		0,01	A -
McCutche Paso, Tex	Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443	348					8				ANON	9				ei-	<u>v</u>	 	<u>e</u> -	R.	<u> </u>		×		21	G	7 <b>7</b>
192 192	μ Ω π	-9/11				-		L'A	PRESERVATIV			7	7	7	7	1	7	7	1	7	2	7	Time:	2	Ime	L S	5
	• •	5-1	~/~~						PRESE MET		*OS <sup>z</sup> H												ate:	22	ate		
	ID	# P	U Ú	9		Project Name:	Refer	Property and			HNO <sup>2</sup> HCI													9	å		E.
(		Phone #:	Fax #:			Project	No.		RIX	3	צרחספו					· .								REAL OF	-	- A	
•] {	S								MATRIX		SOIL AIA	7	7	-7	3	Y	-7	7	7	-2	7	3	V	N KO		Here ever at taborator	)
	al		1126-	70 40							Volume	2	5	Â.	ž	\$	LI-	17	\$	402	402	for	ed by:	ž	Ä	at ab	
			Q					hu				1 402	1 4/02	405	1 402	1402	204 1	402	201	1 41	<u>S</u>	7 120	Cei V	- D	eceived by:		
	raceAnalysis,		Their of	<b>ч</b> >		-			 									-			~		<u> </u>	0	£		7
(			~~~				202	A666		ų													Time:				
Ę		Ą	Franch				ř 4	West of		FIELD CODE		/	2	2							2	Ś	ë.	6-25-07	ية 1 كرام	- \	
. 5le. 9 24	<del>6</del> 62	VNOC		Mar ture	1		CODD/L//r-			FIEL		22-	۱.	12 -	7-2	ſ	2.6	2.7	2	42-2			Date:	6	් <b>ද</b>	Date:	
Avenue, Mas 794	794-129 794-129 78-1296		(Street, City, Zp) /6.2.5 A)	5 >	Inverte		8	mela				06250	062502	06250	762502	062502	062502	062502	062502	42-205290	062502-2	062502	N N	LEC	H		
701 Aberdeen Avenue, Lubbock, Texas 794	lei (806) 794-1296 Fax (806) 794-1296 1 (800) 378-1296	Name		itact Person:	lice to: ifferent from shove)		ocation.	8 m		•		-	51 01	58 06	5106	h0 06.	6106	206	1306			6000	ied by:		iquished by:	58	
	-ш-	nedr	hesso	fact	vice to:	ect #		-			IB USE	20154	5	5	7	ې م	الجنيع	÷,	4	-19	65	<b>j</b>	nquished	I'll	riquish	a la	

07,	/09/2	002	17:	34	8	0679	4129	18					TRA	ACEA	ANAL	.YSI	[S						PA	GE 24	4
										PIPH			·								T				
					biebne	la mort	Inereni	blien	niT bru	ענה אנס T															0-3
ST															•								٠		18
REQUEST											┝╼╍┼														je l
ЭË С																		$\rightarrow$	$\rightarrow$		-				۲. ۲
SIS F			_																					orling	100
ANALYSIS		_								81,008														Check II Special Reporting Limits Are Neyded	1
ANA		ANALYSIS REQUEST								Posicide Pesiicide	$\left  \right $													Negd	
QN		ANALYSIS REQUEST				S	100/95			5 SW/29									-+					ck II S Is Are	2
ΥA		S RE	: — î —							sw/DD	$\Box$			$\square$							;Y			Limit	13
20		YSIS	<u> </u>							BCI											REMARKS:				E
CHAIN-OF-CUSTODY AND	LAB Cruck ID B	HAL'	រ							TCLP 56 TCLP 56	$\left  \right $								+		يسيحوا ا				X
Ч.	Jinder	A S							zelijal	TCLP Vo								·				्रः २७ 'म	Z	$ ^{\circ} _{\mathcal{L}}$	3
N	Э́Яў									TCLP Me		$\dashv$	<b></b>									ן אר ל			R
CHA				000/80	109 04	195.44	10 10	8 <b>9</b> 24		TSB HA9 IEM IEIOT		-										) Z		V	Þð
-			_		U	121	08		) XI/I	BIA HAT												0	Int <u>acter</u> HeadSpace	E.	8 ∕ ₹
											->												Intacte Heade	Log-10	Carrier #
	Et and					1 7	<b></b>	T	999100	TIME 00 381W	0								+		- [1]	<u> </u>		<u>a</u>	
H eti 202	5 <b>-</b> -					4		SAMPLING	<b></b>		$ \Sigma $	$ \rightarrow $									_				Ŕ
NO. SU	96-34 85-49 85-49					21		SAM		<b>JTA</b> d	4.410	.												1	2
55 McCuldheon,Suite H El Paso, Texas 79932	Tel (915) 586-3443 Fax (915) 585-4944 1 (888) 588-3443	$\mathbf{x}$				0	0		+								·					40			Ξ
El Pas	Tel (9 Fax (1997) - 1 (1994)	476-5488				3	$\backslash \mathcal{N}$	۶.		ANONE											- Lime:	5	line.		43
<u> </u>		3				af 1	2	PRESERVATIV METHOD			7										_F	[	F		<u> </u>
		12			ł	1 / N		REF	<u>i</u>	N <sup>9</sup> OH N <sup>5</sup> 2O'												00	4		
1	ట		Q			چ ټو		H.		HNO <sup>2</sup>	1. 1										Date	, vi	Date:		
	n	50	24			Man O	Pis Z			HCI											`	2/3			<u> </u>
		Phone #: برفتو	Fax #: 524			Project Name:	Sampler Sign			-												•			
	ົ	ቒ	<u>и</u> Fa			21	<b>SI</b> /	MATRIX	3	SLUDGI	-										•	F.	i		A Pa
٠	S		NN					MA	$\vdash$	AIR SOIL	$\left  \mathbf{X} \right $		$\left  - \right $									1			€
_									$\vdash$	<b>H</b> ETAW							-			-+		Ś		hr Laborato	
-	3		1990			i		10		/amuloV	·									-+-	۲ م	(Ju C	λq.		lions
			140				7	1			402										Received by:	Ś	Received by:	Received	N.S
				Ν.			5		I SNIA	# CONT											Rec	×			
	raceAnalysis,		Ŕ	2	N	5	Hobbs															Q		lime:	
	Ř				-	00002	106	ų													Time:	1215	Time		2
_	<b>L</b>		~ r K		4	00			DE														· (	25	Į
			792	$ $ $\prec$		7-1	7		FIELD CODE		$ \zeta $											6-25-02	)	S	
ð		A		9	4				JELC		Ņ										Date:	N.	Date:	Date:	es a
	10 30	2	ciny, Zip)	dent	k	2-51	3		4		02											0		ð	stitut
anue, 1 794:	-128( -128) 1286	NMOC	Street	トレー	(avc		a l				5											1	-	YJ A	
n Ave Texae	Tel (806) 794-1296 Fax (806) 794-1296 I (800) 378-1296	*2	(Stre 625		voice to: different from above)			ł			E B										S	J'	* =	ŧ.	
erdee ock.	(806 (800)	Amparry Name: A	7	intact Person	Line in		oject Location.	<u> </u>	· . · ·				┟╌╌┥				 				linguished by	V	a Pa		utimital of samples constitutes agreement to Terms and Conditions listed on reverse agree of
1 Abr	- Far	Âua	22	d U	voice to: different	oject #:	110	ļ		AIB USE	69100	·					ŀ			· [	uishe	Z.	inquished by	Impuished	ittal e
570		Ē	fdress:	an a	ŝ	NA N	<u>eie</u>		3	₩₹	8			:	l	· ·				,	, D	Ma	<u></u>	HE .	Ē

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

July 16, 2002

Report Date: July 16, 2002Order Number: A020703272-517-000051OCD Goodwin Treating Plant

Page Number: 1 of 1 8 Miles West of Hobbs,T×

#### Summary Report

Martyne Kieling OCD Hobbs Office 1625 N. French Drive Hobbs, NM 88240

Report Date:

Order ID Number: A02070327

Project Number:	2-517-000051
Project Name:	OCD Goodwin Treating Plant
Project Location:	8 Miles West of Hobbs, Tx.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
200775	070202-26	Soil	7/2/02	10:05	7/3/02
200776	070202-27	Soil	7/2/02	10:07	7/3/02
200777	070202-28	Soil	7/2/02	10:10	7/3/02
200778	070202-29	Soil	7/2/02	10:18	7/3/02
200779	070202-30	Soil	7/2/02	11:00	7/3/02
200780	070202-31	Soil	7/2/02	11:08	7/3/02
200781	070202-32	Soil	7/2/02	11:06	7/3/02
200782	070202-33	Soil	7/2/02	10:36	7/3/02
200783	070202-34	Soil	7/2/02	11:10	7/3/02

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

	······		BTEX			TPH DRO	TPH GRO
	Benzono	Toluene	Ethylbenzene	M P,O-Xylene	Total BTEX	DRO	GRO
Sample - Field Code	(ppm)	(ppm)	(ppm)	(ppm)	(mom)	(ppm)	(mga)
200775 - 070202-26	<0.010	< 0.010	< 0.010	<0.010	<0.010	<50.0	<1.00
200776 - 070202-27	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	91.9	<1.00
200777 - 070202-28	< 0.010	<0.010	<0.010	<0.010	<0.010	66.3	<1.00
200778 - 070202-29	< 0.010	<0.010	< 0.010	< 0.010	<0.010	144	<1.00
200779 - 070202-30	<0.010	< 0.010	<0.010	< 0.010	< 0.010	224	<1.00
200780 - 070202-31	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	120	<1.00
200781 - 070202-32	< 0.010	<0.010	<0.010	<0.010	<0.010	102	<1.00
200782 • 070202-33	<0.010	< 0.010	< 0.010	< 0.010	<0.010	<50.0	<1.00
200783 • 070202-34	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	<50.0	<1.00



IRAGEANALYSIS

PAGE UI

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: July 29, 2002Order Number: A02071508 2-517-000051 Goodwin Treating Plant Page Number: 1 of 1 8 Miles West of Hobbs, NM

# Summary Report

Report Date:

Order ID Number: A02071508

July 29, 2002

Martyne Kieling OCD Hobbs Office 1625 N. French Drive Hobbs, NM 88240

Project Number:2-517-000051Project Name:Goodwin Treating PlantProject Location:8 Miles West of Hobbs, NM

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
201543	071202-21	Soil	7/12/02	9:06	7/13/02
201544	071202-16	Soil	7/12/02	9:18	7/13/02
201545	071202-35	Soil	7/12/02	9:45	7/13/02
201546	071202-36	Soil	7/12/02	10:00	7/13/02
201547	071.202-37	Soil	7/12/02	10:15	7/13/02
201548	071202-38	Soil	7/12/02	10:56	7/13/02

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

			BTEX			TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	DRO	GRO
Sample - Field Code	(ppm)	(ppm)	(ppm)	(ppm)	(mqq)	(ppm)	(ppm)
201543 - 071202-21	< 0.010	< 0.010	<0.010	< 0.010	<0.010	<50.0	<1.00
201544 - 071202-16	<0.010	<0.010	<0.010	0.0107	0.0107	<50.0	<1
201545 - 071202-35	<0.010	<0.010	<0.010	<0.010	<0.010	<50	<1.00
201546 - 071202-36	< 0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1
201547 - 071202-37	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1
201548 - 071202-38	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1

#### Sample: 201548 - 071202-38

Param	Flag	Result	Units
Chloride	1	1350	mg/Kg

<sup>1</sup>The matrix spike %EA = 95 and RPD = 0

U//	שע עשנ ווי	202	09 <b>:</b> :	25	98 	6794	41298	; 	ріон		1	IKA			4215			, 				ł 	'AGE.	62	T
	24. L				prebra	dž mo)	1 រកទាមពី	ib li em	Т bnuoiA Пи																
ST						-																			
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST									<u>.</u>																
HE(	$\infty$			· · · · · · · · · · · · ·																				<b>S</b> ?	
/SIS	asic		·						29742						×									epadir	
<b>VAL</b>	Ĩ,								Pesticides 808 Pg. TSS, pH					·		5								cial R seded	
DA	ADab	UE:	Dou:						PCB's 6082/60								7						0-	H Spe Are N	
Y AN	BO .	REC	We						CCIMS 2001 82										+		ŝ		Ū	Creck II Special Reporting Limits Are Needed	
00		ANALYSIS REQUEST	Curcie or Specify Merrido Ivo.)						ACI										<u> </u>		REMARKS		8	Γi	
ISU	LAB Order HD #		e or						TCLP Sami Vol TCLP Pasticide	<u> </u>									$\overline{}$	-	Ъ			لبا م <u>يرن جرم</u>	_
010	E S	A							TCLP Volatiles		•													٠Ş٢	
NIN-	P			.002/80					TCLP Metals Ag									 ·			Ш Ш У	ر) اد. <b>ع</b> رجي	X		
CHJ									PAH 8270C												<b>B</b> US	به رو خار د			+-1
					09	2†	- 930		BTEX BO21 BV6	X	<u>×</u> ×	א' אי	·× ·×	X	×Χ						L L	, 		lonin 3	ļ
								· · · ·	WIGE 80318													litta et	Headsp	Tomp.	
е Н 12								DNIT	3MIT	9:00	<i>0</i> 1:18	54.9	0;00	(0:IS	lo'.Sb										121 1 1
eon,Suit xas 799:	Tel (915) 586-3443 Fax (915) 585-4944 1 (888) 588-3443	99						SAMPLING	∃TAO	20.21-5					A						. 2	8		in in the	
oCutch aso, Ye	(815) (915) (888) 5	15	· ·			-			-201	$\left  X \right $					<u>۷</u>						5				1
155 M El P.		m				±	<u>_}</u>	ERVATIVE													Time:	Time:		line.	
						R R	بحا		HOBN							k						<u>چ</u>		۔ د	
		954-				<u>e</u>	ĄĘ.		<sup>7</sup> OS <sup>2</sup> H	ļ						$\mathbf{N}$	<u> </u>		4		ate:	ale		ate: 3/6	~~~~
1	Ě	1 S	0				Sign		HNO <sup>3</sup> HCI	<b> </b>			ļ				$\overline{}$		-		ă \ r	X°.		2	Y.
		Phone 5.05	88240 88240			Project Name	Sampler Sign	·		<u>†</u>						-			-			}		ß	5
i	Ś	Чd	00 1 200	Notuhol	·		5)@Z	MATRIX	SLUDGE									$\square$						alon by	ÿ
•	S		· ·		1		5	MA	AIA SOIL	1					<u> </u>				$\overline{}$					Tallon A	Š
			Y N	9		I	10365		A∃TAW						2		<b></b>		· \	$\left\{ \right\}$				ode V	
(	<u>n</u>		\$	1	10		4	Jun	omA\emuloV	402			ļ		->					V		4) ģ		ed af E	2
ļ			69	E I	130		10			2				<u> </u>				+			Received by	Received by:		Heceived at Laboratory by	VILLA
			40855	LARRY	11		-3		# CONTAINE	-					>			I.			Re	<u> </u>			4
ĺ	IraceAnalysis, in			<b>[</b> ]	ĹĨ		1 1														:e	Time:	620	igi	
1		ŀ	24	4	۲ ۲		10		۵J												Tume:	` Ē	9	Time:	
E				17	SAUTA	V	-8 MILE		FIELD CODE	N	رو	35	30	4	8		$\mathbf{n}$				2		1		
		6	82 9	มี	· V	9	00		IELD	1 I		1   6.		1 W	5						07.17-02	Date:	20-21-2	Date:	
24 B		စိ	LCIUN ZID) FRENCH	X	1.	12000-	1		Ĩ.	え	2	Ι,		الم ا	لم ا					•	69.		べ	<b>.</b>	
enue. s 7942	1-1296 1-1296 1296	Σ	Street_City, Zp)	12	(avo	<del> </del>	Acation: POODULU			07/202	202120	202150	202150	20212Q	202120						_ (				
en Avi Texa:	6) 794 6) 794 ) 378-	<u>ک</u>		1 E	E E	513-	lä G			6	04	5	4	140	6			•		×.	) pur	닉	<b>-</b>		
1 Aberdean Avenue, Si Lubbock, Texas 79424	Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1298	Company Name: NM OC	Address: 1625	Contact Person: MARTYNE IXIELING	Invoice to: ()† different from above)		Project Location:			<u> </u>										=		Relinduísbad by:	R	Telinquished by:	
5701 Aberdean Avenue, Sie. Lubbock, Texas 79424	Ĕ.₩	hundr	S O	TX T	Invoice to: (If different	Project #:	Sed L	1 de 1	LAB USE	Ersia	44	3	4 lø	44	48			•			n sh		A A	Isiup	
ю		S	Add	5 S	N E	E	Po D			8										( 		니틅	- \`		

·····

i

. .. .....

-----

TraceAnalysis, Inc.

6701 Aberdeen Avc., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: July 23, 2002Order Number: A020718232-517-000051Goodwin Treating Plant

Page Number: 1 of 1 8 Miles West of Hobbs, NM

## Summary Report

Report Date:

Order ID Number: A02071823

July 23, 2002

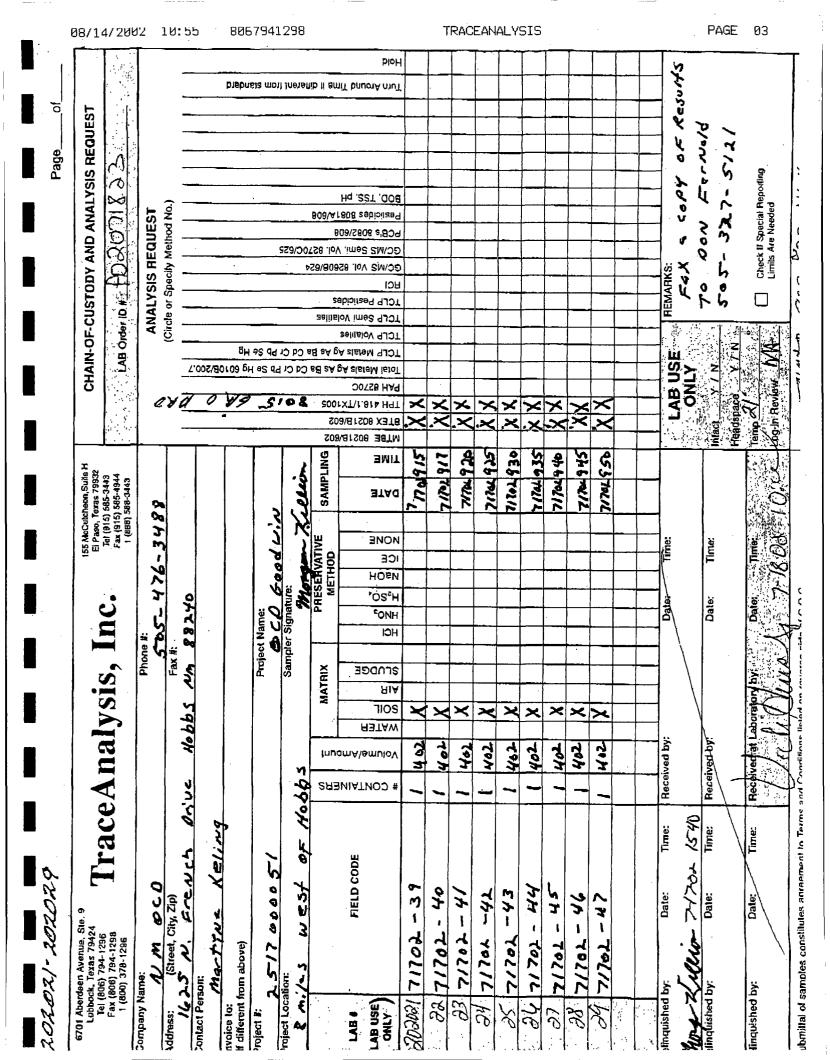
Martyne Kieling OCD Hobbs Office 1625 N. French Drive Hobbs, NM 88240

Project Number:	2-517-000051
Project Name:	Goodwin Treating Plant
Project Location:	8 Miles West of Hobbs, NM

			Date	Lime	Date
Sample	Description	Matrix	Taken	Taken	Received
202021	71702-39	Soil	7/17/02	9:15	7/18/02
202022	71702-40	Soil	7/17/02	9:17	7/18/02
202023	71702-41	Soil	7/17/02	9:20	7/18/02
202024	71702-42	Soil	7/17/02	9:25	7/18/02
202025	71702-43	Soil	7/17/02	9:30	7/18/02
202026	71702-44	Soil	7/17/02	9:35	7/18/02
202027	71702-45	Soil	7/17/02	9:40	7/18/02
202028	71702-46	Soil	7/17/02	9:45	7/18/02
202029	71702-47	Soil	7/17/02	9:50	7/18/02

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

	-		BTEX			TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	DRO	GRO
Sample - Field Code	(ppm)	(mqq)	(ppm)	(mqq)	(ppm)	(mqq)	(mqq)
202021 - 71702-39	<0.010	<0.010	<0.010	0.013	0.013	<50.0	<1.00
202022 - 71702-40	<0.010	<b>&lt;0.01</b> D	<0.010	' <0.010	<0.010	50.9	<1.00
202023 - 71702-41	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1.00
202024 - 71702-42	<b>&lt;0.0</b> 10	<0.010	<0.010	<0.010	<0.010	<50.0	<1.00
202025 - 71702-43	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1.00
202026 - 71702-44	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1.00
202027 - 71702-45	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1.00
202028 - 71702-46	<0.010	<0.010	<0.010	< 0.010	<0.010	<50.0	<1.00
202029 - 71702-47	<0.010	<0.010	<0.010	<0.010	<0.010	<50.0	<1.00



TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: July 23, 2002 Order Number: A02071822 2-517-000051 OCD Goodwin Treating Plant Page Number: 1 of 1 8 Miles West of Hobbs, Tx.

### Summary Report

Report Date: Ju

July 23, 2002

Martyne Kieling OCD Hobbs Office 1625 N. French Drive Hobbs, NM 88240

Order ID Number: A02071822

Project Number:2-517-000051Project Name:OCD Goodwin Treating PlantProject Location:8 Miles West of Hobbs,Tx.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
202011	B-71702-1	Soil	7/17/02	12:40	7/18/02
202012	B-71702-2	Soil	7/17/02	12:44	7/18/02
202013	B-71702-3	Soil	7/17/02	12:46	7/18/02
202014	B-71702-4	Soil	7/17/02	12:50	7/18/02
202015	B-71702-5	Soil	7/17/02	13:00	7/18/02
202016	B-71702-6	Soil	7/17/02	13:10	7/18/02
202017	B-71706-7	Soil	7/17/02	13:15	7/18/02
202018	B-71702-8	Soil	7/17/02	13:20	7/18/02
202019	B-71702-9	Soil	7/17/02	13:25	7/18/02
202020	B-71702-10	Soil	7/17/02	13:30	7/18/02

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

			BTEX			TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	M.P,O-Xylene	Total BTEX	DRO	GRO
Sample - Field Code	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(mqq)	(ppm)
202011 - B-71702-1	< 0.010	0.0461	0.173	0.446	0.665	4430	40.1
202012 - B-71702-2	<0.010	0.0123	0.0658	0.293	0.371	5000	32
202013 - B-71702-3	<0.010	0.0585	0.058	0.215	0.332	4490	18.6
202014 - B-71702-4	0.356	0.953	1.83	6.21	9.35	3390	183
202015 - B-71702-5	0.0556	0.0465	0.264	0.429	0.795	5140	39.9
202016 - B-71702-6	<0.010	0.0213	0.0694	0.157	0.248	2730	24.1
202017 - B-71706-7	<0.010	0.0202	0.042	0.0978	0.160	2410	16.3
202018 - B-71702-8	<0.010	0.0733	0.460	1.25	1.78	2870	56.3
202019 - B-71702-9	0.666	0.637	2.06	4.74	8.10	3170	124
202020 - B-71702-10	<0.010	0.0146	0.130	0.584	0.729	3040	55.3

Biopile sampling data

						bıel	PUBIS	ະ ເກດ	li jnej:	əhit	) ji bu	ı <u>il</u> þun	Tum Aro Hold												40		ג	 
	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	b																					 				- צוצן	
	ALYSIS	LI Xol		· -									BOD, T9												4 rosa	19	32.7	Check If Special Reporting
	DAN		ANALYSIS REQUEST	Circle or Specify Method No.)							\$	09/280	PCB's 8 Pusicide												Lax Fax	Ferveld	チャン	Check If Special R
	V AN		S REC	cify Me 				<u>.</u>	57810	_			SW/DD SW/DD												1			Check
	ISTOI		ALYSK	or Spe							_	_	TCLP Pe												REMARKS A150	200		
	OF-CL	Order ID 8	AN	(Circle								28li)slu	TCLP Se		*												Z	ö
	HAIN	R		2	002/8			_		_	_	<u>e</u> A alst	TCLP Me TCLP Me												USE VSE	1 1	$(\lambda)$	
	<b>U</b>		4	80	0	Y	2_	<u>ح</u>	105	?		IXT\L.	814 HAT 728 HAT	(X	( Χ	۲X	(X	XX	١X	¥۲.	X	X	X		LAB US	50		à
													0 <b>30</b> TM 06 X370 06 X370	~	X	×	X	X	λ		<u>×</u>	× 	X				Head	Temp
ĥa H		12									SAMPLING		TIME	97777	217- 124	かてん	571	7.1/m 1300	ŝ	23.61	مد(ر) ا	27.34 (3.35	133		·.			
cheon Si	Teulas 79 () 585-34	Fax (915) 585-4944 1 (868) 568-3443						•			SAM			West-2	1/1	21/2	7.17.4	7.12	Sec.	Zyne.	212	77.2	1 200					
KK MrChitcheon Suite H	55 AACCUICHEADI, SUITE El Paso, Téxas 79932 Tel (915) 585-3443	Fax (91) 1 (868)	4					<u>د</u>			JVE		ANONE												Time:	Time:		Time:
	2		548					المحصا	1	5000	ESERVAT	<u> </u>	ICE И≊OH												F	Ē		E .
	- 5		1						jä Į	Ź	PAESI		'OS⁴H						_						Date:	Date:		Date:
	Įm		ر ۴					Project Name:	Sampler Signature:				HNO <sup>2</sup> HCI							:								Ċ
			Phone #:	Fax #: R 2240				Projec	Sample	Mark.	ž		SUUD												1.		~	14
	Sig		4	1					1	8	матвіх		AIR SOIL															jo So
	<b>V</b>	2		R R									WATER	X	Х	X	X	X	~	~	X	X	$\times$			Ň		node
	na			1						ſ	របា	iomA\t	∍шию́∨												Received by:	Received by-		led all
	raceAnalysis.			Hobbs						Z	รษ		# CON	1	~	~	~~	-	~	~	~	/	~		Receiv	Receiv	1	Received at
	ICe			PR.						to D D															Time:	Time:	Ì	Time:
						2 2		~	J.			DE			~	3	Z	)					0			1		
				Y, ZID) FRench	101,000				d d	Ò		FIELD CODE		7-7	א י	י ת		r S	3	~	8	5-	い		Date:	Date:		ë
, Ste. 9			G	5				1000 0000		1022		Ë		20212	10112	170	70,	102.12-	202	.70	101	101	21702		å j			Date:
6701 Aberdeen Avenue	Lubbock, Texas 79424 Tel (806) 794-1298 Fax (806) 794-1298	76-1296	Ø C.A	Street.			EDOVE)	~		3				12~	. 1	12-	12-	1	10212-	10212-9	12-	2-			-	3		
indean /	ock, Te (806) 7 (806) 7	E (009	vonparty Name:	- - 	Person:		r difterent from above)	とらく	roject Location:	3				8	8	8	8	8	Ś	8	8	Ø	8		žąp	<b>X</b> <sup>™</sup>		j by:
01 Abe	Lubb Tel	-		ld c 2.		voice to:	terent	roject e:	ct Loc	5 -1-10	•••••		AB USE	110Car	2	E	<u>H</u>	5	16	C1	2	Å	Я	یں۔ 1413ء 14	tinquíshað by:	Inquished by:		Inquished by:

IraceAnalysis, Inc. Report Date: Septe 2517000051		Order Nun	Ave., Suite 9 nber: A02091319 podwinn		к, ТХ 79424-1		Page N	06) 794-1296 umber: 1 of of Hobbs NI
					······	. <u></u>		
		· .	Summary	Report				
Bob Wilcox AMEC 301 N. Colorado St	Suite 250	RECEN	ED SEP 3 0	2002	Report Date	: S	eptemb	oer 18, 2002
Midland, Tx. 79701				·	Order ID Nu	mber: A	020913	319
Project Name:	2517000051 Goodwinn West of Hobbs	s NM						
				Date		Гime		Date
Sample	Description		Matrix	Taken		laken	•	Received
207897	091102-01		Soil	9/11/02		16:05		9/13/02
207898	091102-02		Soil	9/11/02		16:10		9/13/02
207899	091102-03		Soil	9/11/02		L6:15		9/13/02
207900	091102-04		Soil	9/11/02		L6:20		9/13/02
207901	091102-05		Soil	9/11/02	]	L6:25		9/13/02
) This report consis	ts of a total of	1 page(s) a	and is intended or	nly as a summar	y of results for	the samp	.,	
	<u> </u>							
			BTEX			TPH I		TPH GRC
01	Benzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	DR	0	GRO
Sample - Field Code	e (ppm)	(ppm)	Ethylbenzene (ppm)	(ppm)	(ppm)	DRO (ppn	O : n)	GRO (ppm)
207897 - 091102-01	e (ppm) <0.010	(ppm) 0.0104	Ethylbenzene (ppm) 0.0425	(ppm) 0.0687	(ppm) 0.122	DR( (ppm 393	O n) 3	GRO (ppm) 18.2
207897 - 091102-01 207898 - 091102-02	e (ppm) <0.010 <0.010	(ppm) 0.0104 <0.010	Ethylbenzene (ppm) 0.0425 0.0262	(ppm) 0.0687 0.061	(ppm) 0.122 0.0872	DR( (ppm 393 210	O <sup>-</sup> n) 3 )	GRO (ppm) 18.2 13.6
207897 - 091102-01	e (ppm) <0.010	(ppm) 0.0104	Ethylbenzene (ppm) 0.0425	(ppm) 0.0687	(ppm) 0.122	DR( (ppm 393	O n) 3 ) 3	GRO (ppm) 18.2

; REQUEST			· · · · · · · · · · · · · · · · · · ·	1	ระบารร	s woj	i ineie	hib ti e	θωίΤ ρυ	Τυrn Ατουι Βοιά			· · ·							Ē.	566.5761.4
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	402091319	ANALYSIS REQUEST						1. 827(	loV .ime 803\SI A1808	BOD 122 besticides BCB,2 808 GC/W2 2e GC/W2 Ao								RKS:	91.000	Check If Special Reporting Limits Are Needed	(=17.163 -
AIN-OF-CUSTO	LAB Order ID # /	ANALYSI (Circle or Spi		08/200		-		s8 e≜	A gA els estiti zseliti itsloV ir	TOLP Metal TCLP Sem TCLP Vola TCLP Wela								USE REMARKS:	N N		and the
Н	e di	بول م م م	<u>7</u> 	921 <u>4</u>	PU	/ 9	<i>5108</i>	- 5	/1X100	MTBE 802 MTEX 802 MEX 802 MEX 418.1		, j , j , c	-	1	5 1.1				Intact	Temp 2 <sup>1</sup> Log-in Review	Carrier # W
155 McCutcheon, Suite H El Paso, Texas 79932	Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443	86-1978	018-0137					PRESERVATIVE SAMPLING		NaOH ICE DATE TIME	50:h 20/11/6	01%	51:/	02:#	V 1 4:25			Time:	Time:	. Time 0.A //01/01/8	X.
- <b>T</b>	s, Inc.	Phone #: (555) 415	Fax #: 915/ (	Farmington U.M.	1 d	Project Name:	Sampler Signature	MATRIX		H <sup>5</sup> 2O <sup>4</sup> нио <sup>3</sup> нсі гг∩рае								And And 9 17		by: Date:	reverse side of C.O.C.
	l raceAnalysis,		Suite 350	Fernal (F	7			11 	unowy	# CONTA Volume/A WATER SOIL AIR	1 402 /				7 7 7			Received by:	Ž	Received at Laboratory by	unwrittal of samples constitutes agreement to Terms and Conditions listed on reverse side
E	Irace		Porado St.	or Don	H	-				FIELD CODE	4	2	4	-04	D5			Date: Time: 09/12/0~ 14:10		12/02 1830 te: Time:	s agreement to Terms a
6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424	Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296	le H	0 / N (D	ob Wilcox	Dove)	1 EITONDOF	cation: L L D L L	5	<u>.</u>		10-201100	201160	1	041107	091102-			h		MTUM	é comoloc concetitutes
6701 Aberdee Lubbock,	Tel Fax 1 (i	Impany Name: AME	idress: 30	intact Person: Bob	voice to different	olect #:	oject Location:	K and		LAB #	107897	6	99	900	(14)			slinquished by:	alinquished by	linquished by	

TraceAnalysis, Inc.	6701 Aberdeen Ave., Suite 9	Lubbock, TX 79424-1515	(806) 794-1296
Report Date: December 4,	2002Order Number: A02112209		Page Number: 1 of 1
Composite Pile	Goodwin		Goodwin Treating Plant

# Summary Report

Martyne Kieling	RECEIVED	Report Date:	December 4, 2002		
OCD 1220 S. Saint Francis Dr. Santa Fe, NM 87505	DEC 1 2 2002 Environmental Bureau	Order ID Number:	A02112209		
Project Number: Composite Pile	Oil Conservation Division		s in the second		
Project Name: Goodwin Project Location: Goodwin Treating Plant					
	Date	Time	Date		

and the second second	•			Date	Time	Date
Sample		Description	Matrix	Taken	Taken	Received
214232		112102913	Soil	11/21/02	9:13	11/22/02
214233	• •	112102920	Soil	11/21/02	9:20	11/22/02
214234	. <sup>191</sup> .	112102928	Soil	11/21/02	9:28	11/22/02
214235	1 S. 1	112102936	Soil	11/21/02	9:36	11/22/02
214236		112102944	Soil	11/21/02	9:44	11/22/02

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

1.1	· · · · ·	· ·	•			· · · · ·	· · · .		
				BTEX	. · · .		TPH DRO	TPH GRO	Ľ.
		Benzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	DRO	GRO	
	Sample - Field Code	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
	214232 - 112102913	< 0.010	< 0.010	<0.010	<0.010	< 0.010	225	4.54	
	214233 - 112102920	<0.010	<0.010	<0.010	<0.010	<0.010	389	<1.00	•
:	214234 - 112102928	<0.010	<0.010	<0.010	<0.010	<0.010	508	<1.00	
	214235 - 112102936	<0.010	<0.010	<0.010	<0.010	<0.010	342	3.92	
	214236 - 112102944	< 0.010	<0.010	<0.010	<0.010	<0.010	411	<1.00	

Page L of /	CUAN OF OUETONV AND ANALVEIS BEOLIEST		ANALYSIS REQUEST	(Circle of Specify Method No.)				10C/625	selites s 60B/62 60B/62 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	TCLP Metals A TCLP Volatiles TCLP Semi Vol TCLP Pesticide RCI GC/MS Semi. / PCB's 8082/60 PCB's 8082/60 GC/MS Semi. / PCB's 8082/60 PCB's 90 PCB's 90 P								E T REMARKS: 124	Stri
	MAIN	CHAIN			2,200.7		H ₽S 92	·	002 <b>(</b> )5	BTEX 8021506 BTEX 80215/67 PPH 418.1/TX1 PPH 8270C Total Metals Ag	X	x . x	х _х	x x	x .x			LAB US ONLY Had	eausparces
	Ste A	922-1028 3443 -4944 3443	8						SAMPLING	JTAD JMIT BMIT BTBE 8021B/G	1/2/2 9.13	1/2 9:20	2/02 9:28	2/02 9:36	44-620-44				
	4725 Ripley Dr.,	El Paso, Texas 79922-1028 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443	476 - 348				Godwin	926.	RESERVATIVE METHOD	NONE ICE MªOH H <sup>5</sup> 80 <sup>4</sup>	*	X	*	×	×			Time: Time:	
		Inc.	Phone #:		<u> </u>		Project Name: 6	Sampley Signature:		N⁰H2O⁵ HNO3 HCF							 	Date: (1 Z1 0Z Date:	A State
		lysis,	Pho	- L	2 2 2 2 2		Proj	San	MATRIX	MATER Soil AIR SLUDGE	~	×	X	~	×			ived by: <u> </u>	aborator/by
		Anal	noid		עדער			_		ANIATNOD #	704 1	102		1 402	70H (			Received by: L LOH Received by:	
	en Avenue, Ste. 9	Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296	Sompany Name: 1 Conservation Division	(Street, City, Zip)	2007h Jaint Marie	thom above)	* Compost Pike	0	) )		112102913	112102920	1 21 02 9 28	12102936	112102944			Date: Time: 11/21/02 10:30 Date: Time:	Date:
	6701 Aberdee	Lubbock, Tel (806 Fax (800 1 (800)	Company Nam	Address:	Contact Person:	Invoice to: If different from above)	Project #: Con	Project Location:		LAB#	GH(33)	1.33	87 34 I	1. 35 I				Relinquished by: Mar hune Kuch. Relinquished by:	Relinquished by:

ł

.

# APPENDIX G

# SOIL TESTING ANALYTICAL DATA (BIOLOGICAL & CHLORIDES)

.

# **BioLogic Resources**, LLC 6950 SW Juniper Terrace

Beaverton, OR 97008 Phone 503.720.3876 Fax 503.646.5322

For: Trace Analysis 6701 Aberdeen Ave., Suite 9 Lubbock, TX 79424

Received: 06.13.02 Tested: 06.13.02 Completed: 06.23.02

Lab #	Sample	Heterotrophic Plate Count CFU/g	Diesel Degrading Bacteria CFU/g	Heavy Oil Degrading Bacteria CFU/g	Chlorides
TA001	Goodwin Plant 061002 Comp 1 6-11-02 0938	9.1 x 10 <sup>e</sup>	7.1 x 10 <sup>6</sup>	6.7 × 10 <sup>6</sup>	mg/kg 3,900
TA002	Goodwin Plant 061002 – Comp 2 6-11-02 0945	5.6 x 10 <sup>7</sup>	4.5 x 10 <sup>6</sup>	2.7 × 10 <sup>6</sup>	2,900

Project #: 2-517-000051

NMOCD via AMEC Earth & Environmental

- Samples were run in strict accordance with the following methodologies:

   Heterotrophic Plate Count: Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition, Method 9215B
   Diesel and Heavy Oil Degrading Bacteria: Manual of Environmental Microbiology, 2<sup>nd</sup>
  - 3. Chlorides: Halogens by Ion Chromatography, Method SW9056

Kim W. Hutchinson Microbiologist/Principal