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REPORTS

DATE:

2005

Phase II ESA

Site Investigation Report and Supplemental Site Investigation Work Plan

Mattie Price Tank Battery

Lea County, New Mexico

Prepared for:

Osborn Heirs Company
1250 NE Loop 410 Suite 1100
San Antonio, TX 78209

March 2005

Prepared by:

KANE

Kane Environmental Engineering, Inc.
5307 Oakdale Creek Court
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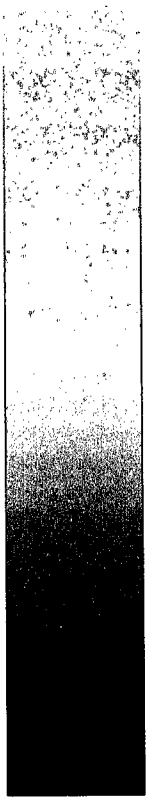

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APPENDICES

1.0 SITE HISTORY

At the request of Osborn Heirs Company, Kane Environmental Engineering, Inc. (Kane Environmental) conducted a Phase I Environmental Site Assessment (ESA) of the Mattie Price Tank Battery on August 26, 2004. This site assessment was conducted to evaluate the potential impact from historical oil and gas operations at this site. The property is identified as being located in Section 6, T17S R38E, Lea County, New Mexico, at a global position of North 32° 52' 3.4'', West 103° 10' 45.8''. A location map is included as **Appendix A** and a topographic map of the location is shown as **Appendix B** in the Appendices.

Previous Phase I and Phase II Environmental Site Assessments, performed by Larson & Associates, Inc., identified visual and olfactory evidence of hydrocarbon impacted soils, with this impact identified from the surface to depths of up to three feet (the point of auger refusal). Impacts were reported in these assessments at the following locations:

- near the free water knockout
- at an area reported as a pit
- near the west end of the tank battery
- near the flare
- around the produced water injection points

No soil samples were submitted for laboratory analyses during the aforementioned Phase II ESA. The depth to groundwater in the vicinity of the tank battery was reported to range between 80 and 100 feet below ground surface.

A second investigation was conducted by R.E. Environmental Services, Inc. This investigation consisted of four soil borings placed around the tank battery. Hydrocarbon impacted soils were reported at depths up to 14 feet, with a maximum reported concentration of 25,900 ppm TPH at a depth of 7.5' at Test Point A. All chloride concentrations from the four borings were reported below 250 ppm. See **Appendix C** in the Appendices for a depiction of these soil boring placements and sampling results.

Five surface soil samples were also collected during this ESA in the vicinity of the tank battery and associated well locations. Chloride concentrations were generally reported at a concentration of 100 ppm, with a maximum of 300 ppm measured at Test Point D. This Test Point is located adjacent to the onsite injection well.

During the Kane Environmental ESA a windmill was identified approximately 954 ft. south-southeast from the tank battery. This windmill is reported in the R.E. Environmental Services, Inc. ESA to have a total well depth of 80 feet. The R.E. Environmental Services, Inc. ESA also reports that groundwater is found at a depth of 62 feet.

The windmill supplies water for a steel cattle watering stock tank. Overflow from the stock tank collects in an earthen overflow pond, located immediately to the south. This overflow pond is located 1,030 feet south-southwest of the tank battery.

General drainage in this area is to the south-southeast. A ridge, or increase in elevation, occurs between the tank battery and the windmill/stock tank/overflow pond area, isolating the battery from these surface water impoundments along their northern exposure. The elevated county road completes the isolation of the surface water along the east side. See **Appendix B** for a depiction of the topographic features in this area.

The New Mexico Oil Conservation Guidelines for Remediation of Leaks, Spills and Releases utilize a site ranking protocol for determining the remediation requirements for hydrocarbon-impacted soil. Based on this guidance and available hydrogeologic information, this site is ranked as follows:

Criterion	Measured Value	Ranking Score
Depth to groundwater	50-99 ft	10
Distance to surface water	See Note 1	0
Distance to wellhead protection area	See Note 2	0
	Total Ranking Score	10

Note 1: The overflow pond is located 1,030' from the tank battery. In addition, a ridge provides a natural barrier between the tank battery and the overflow pond, precluding surface drainage from migrating from the tank battery area to the pond.

Note 2: The windmill is not located in a wellhead protection area.

The site sensitivity ranking for Mattie Price Tank Battery is rated at 10. This ranking score yields the following remediation thresholds:

Constituent	Remediation Threshold
Total Petroleum Hydrocarbons	1,000 ppm
Benzene	10 ppm
BTEX	50 ppm

Based on the findings of the Phase I site assessment, a Phase II Site Investigation was conducted. This Phase II Site Investigation Report has been prepared as documentation of site investigation activities at the Mattie Price tank battery.

2.0 FIELD INVESTIGATION AND LABORATORY ANALYSES

Site investigation activities were conducted on December 14 and 15, 2004. Investigation activities were conducted using a mobile rotary drilling rig equipped with hollow-core augers and continuous coring equipment. Under Kane Environmental supervision, Groundwater Monitoring, Inc. of Grand Prairie, Texas performed 16 borings designed to horizontally and vertically delineate potential impact around the tanks and equipment at the Mattie Price tank battery.

Field Investigation Protocols

Initial boring locations were placed to confirm or refute hydrocarbon impact reported around Test Points A (MPB-1) & B (MPB-2) during previous site investigations. Additional borings were performed northwest of AST #1 (MPB-3) and south of AST #2 (MPB-4) to provide delineation of potential hydrocarbon impact. Borings, labeled MPB-5 through MPB-16 were performed to provide full additional delineation of hydrocarbon impacted areas as well as delineation around potential hydrocarbon source equipment. Boring locations are depicted in **Appendix D.**

Soil logs were prepared during boring operations (**Appendix E**) and field headspace readings (**Appendix F**) were collected on each 2.5' sample interval using a photo-ionization detector (PID). Sample collection and headspace readings were conducted according to the procedures outlined in NMOCD's Guidelines for Remediation of Leaks, Spills and Releases. A threshold value of 100 ppm was used to estimate compliance with these BTEX standards and to guide placement of additional borings.

For boring samples with field headspace readings in excess of 100 ppm (MPB-1, MPB-5, MPB-7, MPB-10 and MPB-12), additional borings were placed outward from the initial location in the four cardinal directions wherever possible, based on access limitations caused by surface equipment, piping, electrical lines and lease boundaries. Additional borings to the west and the south of boring MPB-12 were not performed due to physical access constrains, surface and underground piping, and the presence of electrical lines and equipment. For boring MPB-5, additional borings to the east and south were not performed due to the proximity to the east lease boundary and similar access constrains to the south.

The sample interval for each boring demonstrating a maximum field headspace reading and the terminal depth sample interval were submitted to OilLab, Inc. in Midland Texas under a Chain of Custody transport for the analysis of the following constituents:

- TPH-GRO
- TPH-DRO
- BTEX

Significant differences in hydrocarbon impact character (light end vs. heavy end) were encountered at some locations. Subjective cues (color, odor and apparent degree of hydrocarbon saturation) as well as field headspace readings were used to select the sample interval with the expected maximum heavy end impact levels for laboratory analyses from these soil samples.

Soils encountered during boring ranged from sandy loam surface soils (0-2.5',) to silty clay subsurface (2.5-5.0+' generally), overlying hard to very hard but friable caliche to depths of up to 20 feet. In most locations, boring speed (an indicator of material hardness) was slowest in the 10-15' depth range. Materials encountered were generally moist to wet, but not saturated, in the 12.5-20.0' depth range.

Laboratory Analysis

The site maximum benzene and total BTEX concentrations measured in sample borings was encountered in MPB-1 5.0-7.5' (0.175 mg/kg benzene) and MPB-9 7.5-10.0' (15.0106 mg/kg BTEX) are below the OCD regulatory thresholds of 10 mg/kg for benzene and 50 mg/kg for BTEX.

Soil borings from the areas of AST #3 and #4 have measured TPH concentrations in excess of the 1,000 mg/kg OCD threshold. These soil borings are identified as:

MPB-1	MPB-9
MPB-5	MPB-10
MPB-7	MPB-12

A site maximum concentration of 2,740 mg/kg TPH was identified in boring MPB-5 7.5-10.0'.

Soils sample analysis demonstrated that the following borings measured TPH concentrations below the 1,000 mg/kg OCD TPH threshold:

MPB-2	MPB-13
MPB-4	MPB-15
MPB-8	MPB-16
MPB-11	

These borings demonstrate and serve to delineate the boundary of the area of hydrocarbon impact to the north, south and the east. Complete horizontal delineation of the hydrocarbon contaminated area was not achievable to the West due physical access constraints and safety restrictions on working the drilling rig in the area of electrical and process equipment.

In locations where total hydrocarbon levels measured by laboratory analysis exceeded the OCD regulatory threshold, field headspace readings in the surface and near surface materials were

such lower than the maximum levels for each boring, indicating surface leaks were not the source for these elevated hydrocarbons. Field personnel reported that a former pit may have been located in the vicinity of the borings showing elevated hydrocarbons. This pit was reportedly used by a previous operator for disposal of tank bottoms generated during the removal and replacement of ASTs that were located where ASTs #3 and #4 are currently located. The pattern of hydrocarbon distribution with depth supports this report.

Laboratory analyses are summarized in **Appendix G**, with Chain of Custody documentation and complete analytical reports found in **Appendix H and I**, respectively.

3.0 QUALITY CONTROL

All sample collection equipment was decontaminated between intervals by washing with soap and water followed by a clean-water rinse.

All soil samples to be submitted for laboratory analysis were immediately packed on ice for shipment to the laboratory under a Chain of Custody transport. EPA approved pre-cleaned and certified containers were used for sample collection.

The PID used for headspace an analysis was calibrated to assume a benzene response factor prior to arrival on location.

Laboratory quality control measures used to insure the precision and accuracy of the data included:

- matrix spike analyses to demonstrate the effectiveness of the extraction procedures.
- known standard sample analyses and quality control spike analyses to demonstrate the accuracy of the equipment used for laboratory analyses.
- method blank analyses to demonstrate the purity of reagents used.

All analytical quality control measures were measured within acceptable limits.

All laboratory analyses were completed within required sample holding times, using EPA or OCD approved analytical methods.

4.0 SUMMARY AND SUPPLEMENTAL SITE INVESTIGATION WORK PLAN

Based on analyses performed to-date, total hydrocarbon impact in excess of established OCD thresholds is present in certain subsurface soils at the Mattie Price Tank Battery. The most significant impact is found to be focused around and to the west of ASTs #3 and #4.

Vertical delineation was not achieved in boring locations MPB 1, 9, and 10 during the initial investigation. Soil boring was terminated when field headspace readings were measured <100 ppm as per the Site Investigation Plan previously approved by the OCD. Although the field headspace readings in the soil borings met this threshold, the measured values reported in the laboratory analysis demonstrates that the TPH in these areas are in excess of OCD regulatory thresholds.

Kane proposes resampling in these locations, with sample collection initiating at the terminal depth of the original coring, and continuing until field headspace readings are below 50 ppm. Samples will be collected in maximum intervals of 2.5'. All samples will be analyzed for TPH to complete vertical delineation at this site. BTEX analyses is not planned for investigation, as all soil samples from the initial investigation had measured values of these constituents below BTEX regulatory thresholds.

This additional sampling plan will be executed upon approval of the OCD. A minimum of 48 hours notice will be given to OCD personnel prior to initiation of on-site activities.

Following completion of analysis, an amended Remediation Work Plan will be submitted to the OCD for review and approval.

D. Pennington

Kane Environmental Engineering, Inc.
debpennington@earthlink.net

3/21/05
Date

Osborn Heirs
Joy Swayze
Environmental
Safety Mgr.

3/23/05
Date

Approved

5.0 EMERGENCY CONTACT INFORMATION

Emergency Contacts	Phone number	email
One Call	1-800-321-2537	jtobin28@qwest.net
Osborn Heirs	210- 826-0700	joys@osbornheirs.com
Shawn Hokanson, Kane Environmental	1-979-229-8253	hokanson@cox.net
Deb Pennington, Kane Environmental	1-432-689-8675	debpennington@earthlink.net
Emergency Contacts	**Phone number**	
New Mexico State Police	(505) 392-5588	
Lea County Sheriffs Office	(505) 393-2515	
Weather and Road Conditions	(800) 432-4269	
Hobbs Police Department	(505) 397-9265	
Hobbs Fire Department	(505) 397-9308	
Hobbs Ambulance	(505) 397-9308	
Columbia Lea Regional Medical Center	5419 N Lovington Highway Hobbs, NM 505-392-6581	

See Appendix J for a Site Health and Safety Plan

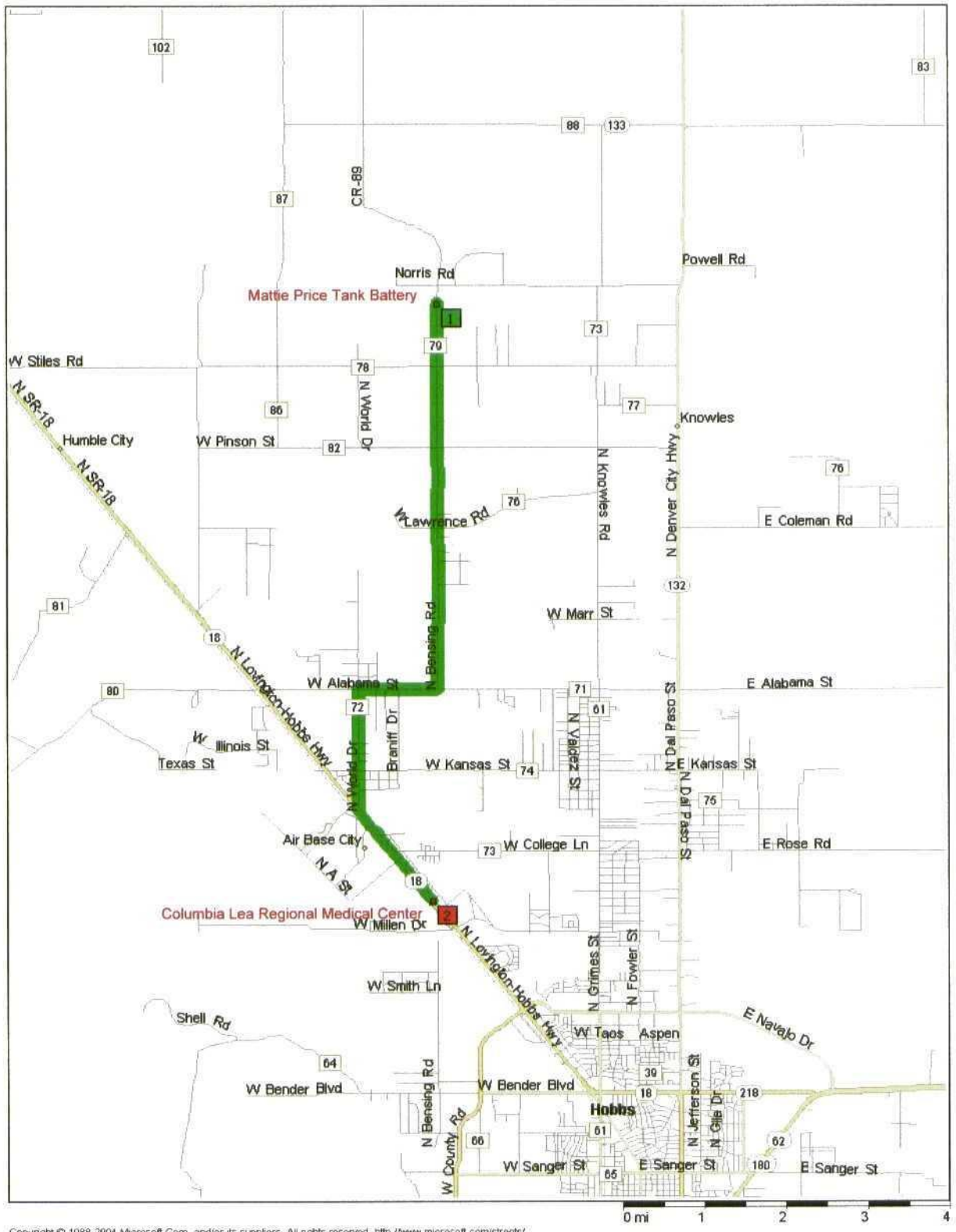


Figure 1	Osborn Heirs **Mattie Price Tank Battery** Lea County, New Mexico	**Location Map**

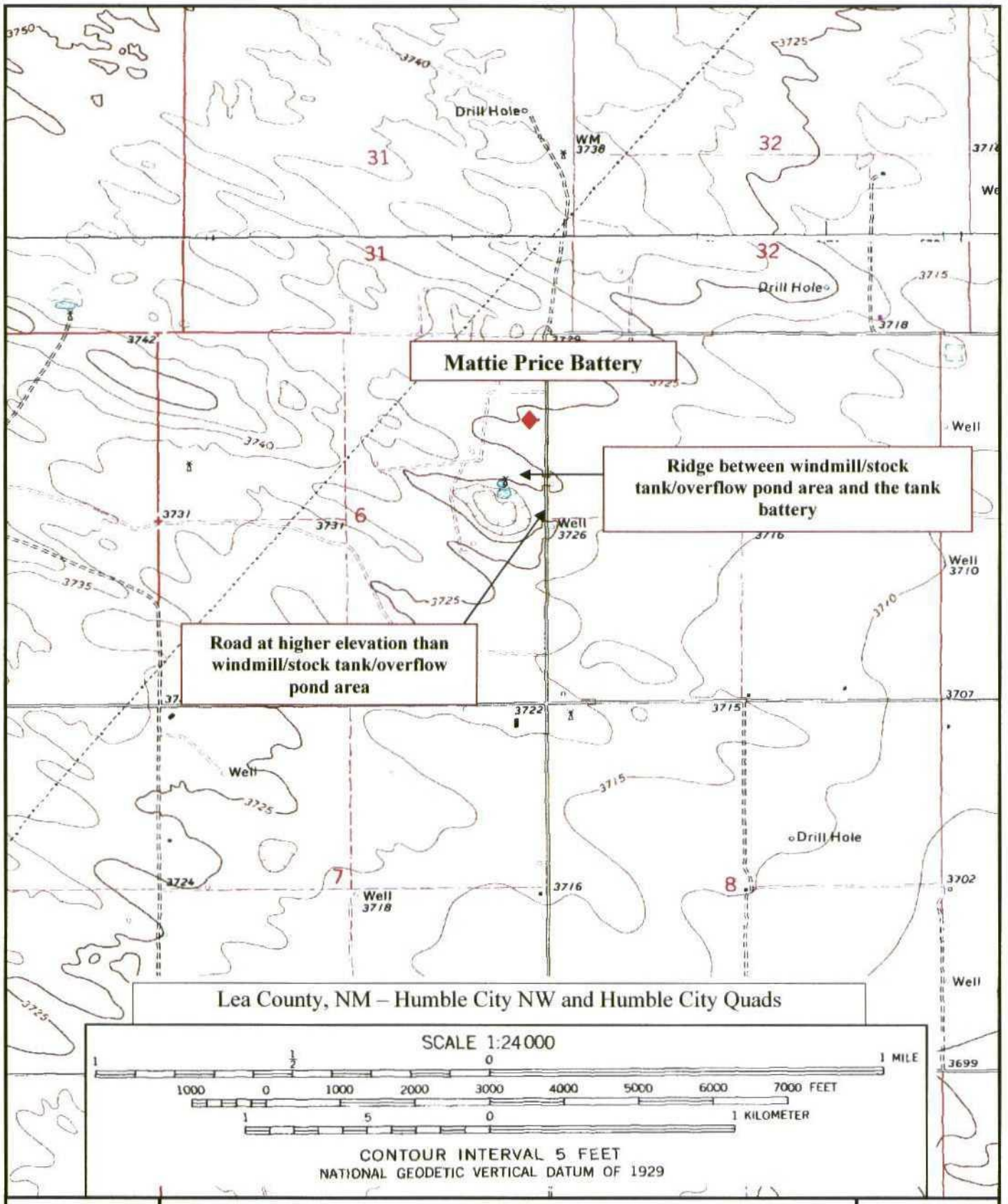
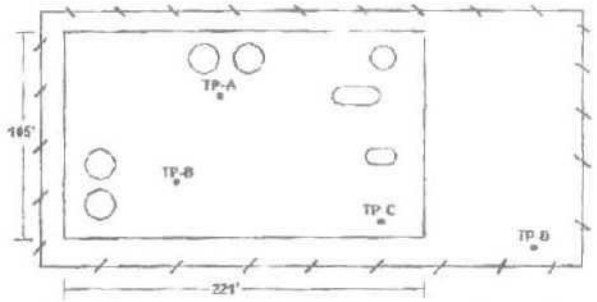


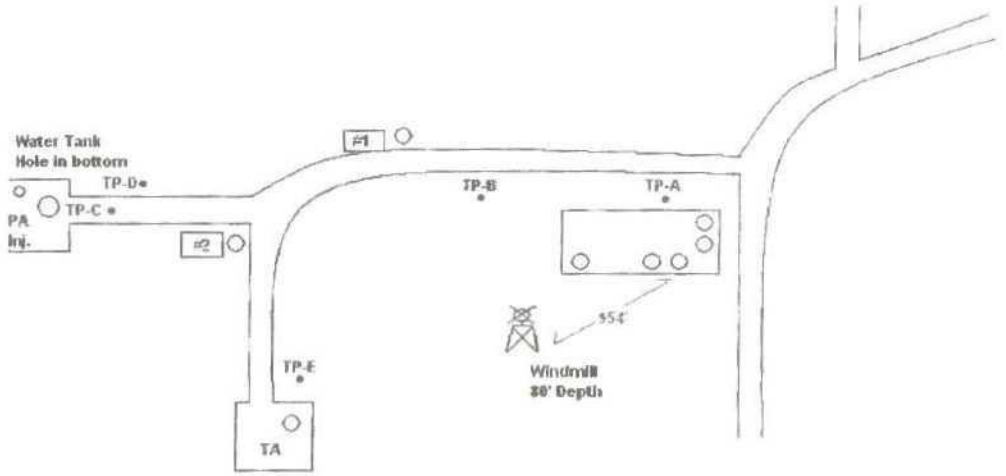
Figure 2	Osborne Heirs **MATTIE PRICE TANK BATTERY** Lea County, New Mexico	USGS Topographic Map

Mattie Price Tank Battery
West Garrett Devonian Pool
NE ¼ NE ¼
Sec-6 TS-17-S R-38E
Lea Co. New Mexico



Hydrocarbon & Chloride Test Results

Test Point	Results			
A	16,860ppm @ 6'	25,900ppm @ 7 ½'	2,160ppm @ 10'	516ppm @ 14'
B	3,130ppm @ 6'			
C	460ppm @ 6'			
D	18ppm @ 4'			
Chlorides	<250ppm			



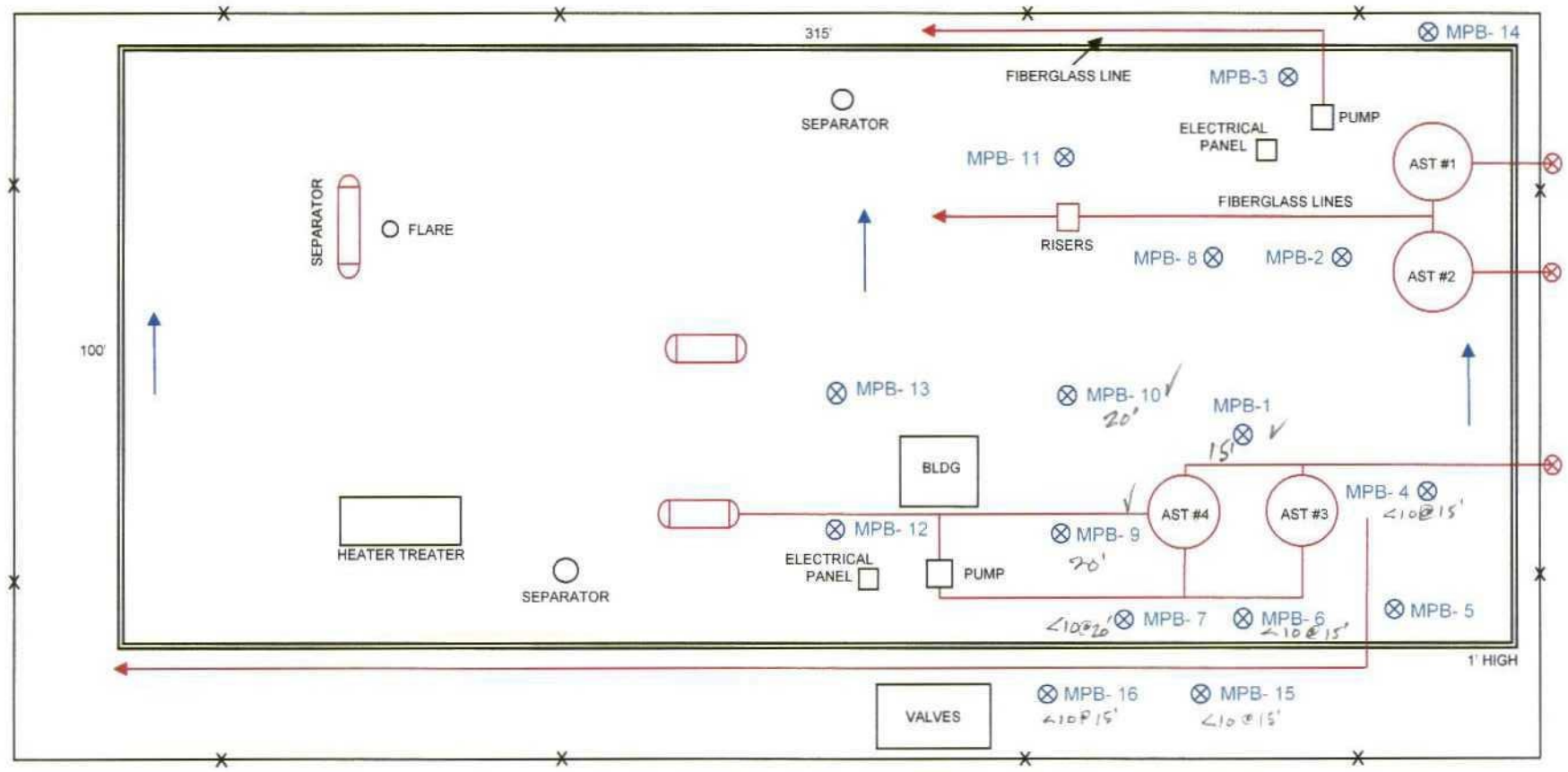
Chloride Test Results

Test Point	Results
A.	100ppm @ Surface
B.	100ppm @ Surface
C.	100ppm @ Surface
D.	300ppm @ Surface
E.	150ppm @ Surface

KANE

Environmental Engineering Inc.
Spring Texas

Figure 3
Excerpted from:
R.E. Environmental Services, Inc.
Sample Locations and Analyses Results



BERM DIMENSIONS REFLECT TOP OF BERM

TANK LEGEND	
SURFACE DRAINAGE	
FENCE	
SPCC-REGULATED STORAGE TANKS OR OIL CONTAINING EQUIPMENT	
EARTHEN BERM	
SOIL BORING	

TANK LEGEND	
AST #1 PRODUCED WATER TANK	504 BBL
AST #2 PRODUCED WATER TANK	504 BBL
AST #3 PRODUCED OIL TANK	500 BBL
AST #4 PRODUCED OIL TANK	500 BBL

N, NW, NE, W, E, SW, SE, S

KANE

Environmental Engineering Inc.
Spring, Texas

Figure 4

Mattie Price Battery Soil Boring Plot

Lea County, New Mexico

N 32° 52' 33" W 103° 10' 46.86"

DRAWN BY: TYH	PROJECT: 04-631
DATE: 8/29/2004	APPROVED BY: DCL
REVISED:12/30/2004	NOT TO SCALE

Site Investigation Soil Boring Logs – December 2004

Boring Location	Depth Interval, ft	Soil Description
MPB-1	0-2.5'	Brown sandy loam with caliche, hydrocarbon odor
	2.5-7.5'	Grayish brown stiff, sticky silty clay with caliche, hydrocarbon odor
	7.5-15.0'	Tan hard to very hard friable caliche with decreasing hydrocarbon odor
MPB-2	0-2.5'	Brown sandy loam with caliche, hydrocarbon odor
	2.5-7.5'	Grayish brown stiff, sticky silty clay with caliche, hydrocarbon odor
	7.5-10.0'	Tan soft friable caliche, hydrocarbon odor, moist
	10.0-12.5'	Tan soft friable caliche, hydrocarbon odor, wet at 12.0'
	12.5-15.0'	Tan hard to very hard friable caliche, dry, decreasing hydrocarbon odor
MPB-3	0-2.5'	Black sandy loam with caliche, hydrocarbon odor
	2.5-5.0'	Black stiff, sticky silty clay with caliche, hydrocarbon odor
	5.0-10.0'	Gray to light gray hard to very hard friable caliche with decreasing hydrocarbon odor
	10.0-15.0'	Tan hard to very hard friable caliche
MPB-4	0-2.5'	Tan sandy loam with caliche, gray hydrocarbon staining 1.5-2.5'
	2.5-10.0'	Dark brown stiff, sticky silty clay with caliche, hydrocarbon staining 2.5-2.75', faint hydrocarbon odor
	10.0-15.0'	Tan hard to very hard friable caliche with white crystals
MPB-5	0-2.5'	Tan sandy loam with caliche, gray hydrocarbon staining 1.5-2.5'
	2.5-10.0'	Dark brown stiff, sticky silty clay with caliche, hydrocarbon staining 2.5-2.75', faint hydrocarbon odor
	10.0-15.0'	Tan hard to very hard friable caliche with white crystals
MPB-6	0-2.5'	Tan sandy loam with caliche, gray hydrocarbon staining 1.5-2.5'
	2.5-10.0'	Dark brown stiff, sticky silty clay with caliche, hydrocarbon staining 2.5-2.75', faint hydrocarbon odor
	10.0-15.0'	Tan hard to very hard friable caliche with white crystals
MPB-7	0-2.5'	Tan sandy loam with caliche, hydrocarbon odor
	2.5-5.0'	Black to dark gray stiff, sticky silty clay with caliche, hydrocarbon odor
	5.0-10.0'	Dark brown hard to very hard friable caliche, hydrocarbon odor
	10.0-15.0'	Tan hard to very hard friable caliche, decreasing hydrocarbon odor
	15.0-20.0'	Tan sandy loam with caliche, faint light end hydrocarbon odor

Site Investigation Soil Boring Logs – December 2004, continued

Boring Location	Depth Interval, ft	Soil Description
MPB-8	0-2.5'	Tan sandy loam with caliche
	2.5-5.0'	Brown stiff silty clay with caliche
	5.0-10.0'	Tan hard to very hard friable caliche with decreasing hydrocarbon odor
	10.0-15.0'	Reddish tan hard to very hard friable caliche, saturated at 11', dry at 12.5'
MPB-9	0-2.5'	Black sandy loam with caliche, hydrocarbon staining 2.0-2.5'
	2.5-5.0'	Black stiff, sticky silty clay with caliche, hydrocarbon staining 2.5-3.5'
	5.0-15.0'	Tan hard to very hard friable caliche, hydrocarbon odor
	15.0-20.0'	Tan hard to very hard friable caliche with decreasing hydrocarbon odor
MPB-10	0-2.5'	Black sandy loam with caliche, hydrocarbon staining 2.0-2.5'
	2.5-5.0'	Black stiff, sticky silty clay with caliche, hydrocarbon saturated 3.0-4.0'
	5.0-10.0'	Tan hard to very hard friable caliche, hydrocarbon odor
	10.0-20.0'	Tan hard to very hard friable caliche with decreasing hydrocarbon odor
MPB-11	0-2.5'	Tan sandy loam with caliche, hydrocarbon odor
	2.5-5.0'	Brown stiff silty clay with caliche, faint hydrocarbon odor
	5.0-12.5'	Tan hard to very hard friable caliche
MPB-12	0-2.5'	Tan sandy loam with caliche, dark brown hydrocarbon staining from 1.5-2.5'
	2.5-5.0'	Brown stiff, stick silty clay with caliche, hydrocarbon odor
	5.0-10.0'	Tan hard to very hard friable caliche with light end hydrocarbon odor
	10.0-15.0'	Tan hard to very hard friable caliche with light end hydrocarbon odor
MPB-13	0-2.5'	Reddish brown sandy loam with caliche, dark gray hydrocarbon staining from 1.5-2.5'
	2.5-5.0'	Gray stiff, stick silty clay with caliche, hydrocarbon odor
	5.0-15.0'	Tan hard to very hard friable caliche with faint, decreasing light end hydrocarbon odor
MPB-14	0-2.5'	Tan sandy loam with caliche
	2.5-5.0'	Brown stiff silty clay with caliche
	5.0-12.5'	Light gray hard to very hard friable caliche

Site Investigation Soil Boring Logs – December 2004, continued

Boring Location	Depth Interval, ft	Soil Description
MPB-15	0-2.5'	Dark brown sandy loam with caliche
	2.5-10.0'	Brown stiff silty clay with caliche
	10.0-15.0'	Tan to reddish brown hard to very hard friable caliche
MPB-16	0-2.5'	Dark brown sandy loam with caliche
	2.5-5.0'	Brown stiff silty clay with caliche
	5.0-15.0'	Tan to reddish brown hard to very hard friable caliche

Field Headspace Analysis by PID.

Boring Location	Sample Depth Interval, ft	Field Headspace Reading, ppm	Boring Location	Sample Depth Interval, ft	Field Headspace Reading, ppm
MPB-1	0-2.5'	60	MPB-8	0-2.5'	0.0
MPB-1	2.5-5.0'	160	MPB-8	2.5-5.0'	1.0
MPB-1	5.0-7.5'	172	MPB-8	5.0-7.5'	1.1
MPB-1	7.5-10.0'	142	MPB-8	7.5-10.0'	37.5
MPB-1	10.0-12.5'	88	MPB-8	10.0-12.5'	2.3
MPB-1	12.5-15.0'	28	MPB-8	12.5-15.0'	1.0
MPB-2	0-2.5'	2.1	MPB-9	0-2.5'	98
MPB-2	2.5-5.0'	1.1	MPB-9	2.5-5.0'	102
MPB-2	5.0-7.5'	0.0	MPB-9	5.0-7.5'	179
MPB-2	7.5-10.0'	0.0	MPB-9	7.5-10.0'	289
MPB-2	10.0-12.5'	0.0	MPB-9	10.0-12.5'	255
MPB-2	12.5-15.0'	0.0	MPB-9	12.5-15.0'	232
MPB-3	0-2.5'	57	MPB-9	15.0-17.5'	1.8
MPB-3	2.5-5.0'	38	MPB-9	17.5-20.0'	1.1
MPB-3	5.0-7.5'	8.0	MPB-10	0-2.5'	289
MPB-3	7.5-10.0'	2.2	MPB-10	2.5-5.0'	435
MPB-3	10.0-12.5'	4.5	MPB-10	5.0-7.5'	547
MPB-3	12.5-15.0'	1.1	MPB-10	7.5-10.0'	408
MPB-4	0-2.5'	1.8	MPB-10	10.0-12.5'	400
MPB-4	2.5-5.0'	1.1	MPB-10	12.5-15.0'	289
MPB-4	5.0-7.5'	0.0	MPB-10	15.0-17.5'	214
MPB-4	7.5-10.0'	1.1	MPB-10	17.5-20.0'	87.0
MPB-4	10.0-12.5'	1.3	MPB-11	0-2.5'	8.0
MPB-4	12.5-15.0'	2.0	MPB-11	2.5-5.0'	3.4
MPB-5	0-2.5'	55.2	MPB-11	5.0-7.5'	12.4
MPB-5	2.5-5.0'	92.5	MPB-11	7.5-10.0'	2.2
MPB-5	5.0-7.5'	96.7	MPB-11	10.0-12.5'	1.0
MPB-5	7.5-10.0'	227	MPB-12	0-2.5'	22
MPB-5	10.0-12.5'	23.0	MPB-12	2.5-5.0'	35
MPB-5	12.5-15.0'	15.2	MPB-12	5.0-7.5'	85
MPB-6	0-2.5'	1.1	MPB-12	7.5-10.0'	78
MPB-6	2.5-5.0'	1.0	MPB-12	10.0-12.5'	81
MPB-6	5.0-7.5'	28.6	MPB-12	12.5-15.0'	76
MPB-6	7.5-10.0'	2.4	MPB-13	0-2.5'	50

Field Headspace Analysis by PID.

Boring Location	Sample Depth Interval, ft	Field Headspace Reading, ppm	Boring Location	Sample Depth Interval, ft	Field Headspace Reading, ppm
MPB-6	10.0-12.5'	1.0	MPB-13	2.5-5.0'	5.7
MPB-6	12.5-15.0'	0.0	MPB-13	5.0-7.5'	2.5
MPB-7	0-2.5'	89	MPB-13	7.5-10.0'	1.5
MPB-7	2.5-5.0'	70	MPB-13	10.0-12.5'	0.0
MPB-7	5.0-7.5'	225	MPB-13	12.5-15.0'	0.0
MPB-7	7.5-10.0'	327	MPB-14	0-2.5'	1.2
MPB-7	10.0-12.5'	105	MPB-14	2.5-5.0'	0.0
MPB-7	12.5-15.0'	57	MPB-14	5.0-7.5'	0.0
MPB-7	15.0-17.5'	1.1	MPB-14	7.5-10.0'	0.0
MPB-7	17.5-20.0'	1.1	MPB-14	10.0-12.5'	0.0
MPB-15	0-2.5'	0.0	MPB-16	0-2.5'	0.0
MPB-15	2.5-5.0'	0.0	MPB-16	2.5-5.0'	0.0
MPB-15	5.0-7.5'	0.0	MPB-16	5.0-7.5'	0.0
MPB-15	7.5-10.0'	0.0	MPB-16	7.5-10.0'	0.0
MPB-15	10.0-12.5'	0.0	MPB-16	10.0-12.5'	0.0
MPB-15	12.5-15.0'	0.0	MPB-16	12.5-15.0'	0.0

Total Petroleum Hydrocarbon and Benzene, Toluene, Ethylbenzene, and Xylenes Analyses for Soil Samples.

Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH GRO	TPH-DRO	Total Hydrocarbon
				Mg/kg				
MPB-1 5.0-7.5'	0.1750	1.4200	0.4570	2.1510	4.2030	527	828	1360
MPB-1 12.5-15.0'	<0.025	0.1060	0.1540	1.1770	1.4370	311	812	1120
MPB-2 0.0-2.5'	<0.025	0.0248	0.0169	0.0661	0.1078	13.6	26.5	40.1
MPB-2 12.5-15.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-3 0.0-2.5'	<0.025	0.0111	0.0268	0.1214	0.1593	260	4360	4620
MPB-3 12.5-15.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	12.5	12.5
MPB-4 0.0-2.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-4 12.5-15.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-5 7.5-10.0'	0.1540	1.4100	0.3880	2.2850	4.2370	1090	1650	2740
MPB-5 12.5-15.0'	<0.025	0.0160	0.0203	0.0325	0.0688	15.5	22	37.5
MPB-6 5.0-7.5'	<0.025	0.0287	0.0542	0.3487	0.4316	29.4	65.6	95
MPB-6 12.5-15.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-7 7.5-10.0	0.0169	0.9660	0.3750	2.7280	4.0859	863	1530	2390
MPB-7 17.5-20.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-8 7.5-10.0'	<0.025	<0.025	0.0455	0.4280	0.4735	52.7	218	271
MPB-8 12.5-15.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
OCD Regulatory Thresholds	**10**	--	--	--	**50**	**1,000**	**1,000**	**1,000**

Total Petroleum Hydrocarbon and Benzene, Toluene, Ethylbenzene, and Xylenes Analyses for Soil Samples.

Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH GRO	TPH-DRO	Total Hydrocarbon
				Mg/kg				
MPB-9 2.5-5.0'	0.0215	0.2160	0.2460	2.0920	2.5755	114	293	407
MPB-9 7.5-10.0'	0.0946	1.2200	0.9360	12.7600	15.0106	701	1180	1880
MPB-9 17.5-20.0	0.0361	0.5520	0.2210	1.6180	2.4271	727	1700	2430
MPB-10 2.5-5.0	0.2500	1.0300	0.6640	6.7590	8.7030	211	448	659
MPB-10 17.5-20.0	0.1320	1.0800	0.4270	2.5540	4.1930	771	1480	2250
MPB-11 0.0-2.5	<0.025	0.0386	0.0581	0.3838	0.4805	<10	<10	<10
MPB-11 10.0-12.5	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-12 0.0-2.5	<0.025	0.0247	0.0429	0.0929	0.1605	14.9	<10	14.9
MPB-12 5.0-7.5'	0.0201	0.5460	0.2300	2.2060	3.0021	711	1430	2140
MPB-12 12.5-15.0'	<0.025	0.0973	0.0626	1.0270	1.1869	141	408	549
MPB-13 0.0-2.5	<0.025	0.0615	0.1000	0.5690	0.7305	34	347	381
MPB-13 12.5-15.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	30	30
MPB-14 0.0-2.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-14 10.0-12.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-15 0.0-2.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-15 12.5-15.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-16 0.0-2.5'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
MPB-16 12.5-15.0'	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
OCD Regulatory Thresholds	**10**	--	--	--	**50**	**1,000**	**1,000**	**1,000**

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

658839

Page: 1 of 3

Section A — Required Client Information:
- Company: Kane Environmental
- Address: 4713 Rosewood, Midland TX 79707
- Phone: 432 6898675
- Fax:

Section B — Required Client Information:
- Report To: Deb Lambertson
- Copy To: Shawn Hokanson hokanson@cox.net
- Invoice To: Deb Lambertson
- P.O.:
- Project Name: Mattie Rice Battery
- Project Number: 04-631

Client Information (Check quote/contract):
Requested Due Date: | *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client
- Quote Reference:
- Project Manager:
- Project #:
- Profile #:
- Requested Analysis: TPH DRO/GRO; BTEX

Section D — Required Client Information:

SAMPLE ID — One character per box. (A–Z, 0–9 / .-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — WATER WT; SOIL SL (circled); OIL OL; WIPE WP; AIR AR; TISSUE TS; OTHER OT

Preservatives: Unpreserved, H_2SO_4, HNO_3, HCl, NaOH, $Na_2S_2O_3$, Methanol, Other: Ice

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm/dd/yy	TIME COLLECTED hh:mm a/p	# Containers	Other (Ice)	TPH DRO/GRO	BTEX	Remarks / Lab ID
1	MPB4 0-2.5.0'	SL	12/15	1430	1	✓	X	X	4L17002-01
2	MPB4 12.5-15.0'	↓	↓	1450	↓	↓	↓	↓	02
3	MPB5 7.5-10.0'			1500					03
4	MPB5 12.5-15.0'			1520					04
5	MPB6 5.0-7.5'			1550					05
6	MPB6 12.5-15.0'			1600					06
7	MPB7 7.5-10.0			1641					07
8	MPB7 17.5-20.0'		↓	1701					08
9	MPB1 5.0-7.5'		12/16	804					09
10	MPB1 12.5-15.0'			818					10
11	MPB2 0-2.5'	↓		835					11
12	MPB2 12.5-15.0'		↓	845	↓	↓	↓	↓	12

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
hand delivered					[signature]	12/17	0600	[signature]	12/17/04	0800

SAMPLE CONDITION

Temp in °C	2.5°C
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE
- PRINT Name of SAMPLER: [signature]
- SIGNATURE of SAMPLER: Shawn Hokanson
- DATE Signed (MM / DD / YY): 12/16/04

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Form COC01 Rev 0601

Pace Analytical™
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

658840

Page: 2 **of** 3

Section A — Required Client Information:
- Company: Kane Environmental
- Address: 4713 Rosewood, Midland TX 79707
- Phone: 432 689 8675 Fax:

Section B — Required Client Information:
- Report To: Deb Lambertson
- Copy To: Shawn Hokanson hokanson@cox.net
- Invoice To: Deb Lambertson
- P.O.:
- Project Name: Millie Price Battery
- Project Number: 04-631

Client Information (Check quote/contract):
Requested Due Date: *TAT:
* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client
- Quote Reference:
- Project Manager:
- Project #:
- Profile #:
- Requested Analysis: TPH GRO/DRO, BTEX

Section D — Required Client Information:

SAMPLE ID — One character per box. (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — WATER WT; SOIL SL (circled); OIL OL; WIPE WP; AIR AR; TISSUE TS; OTHER OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm/dd/yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis (TPH GRO/DRO, BTEX)	Remarks / Lab ID
1	MPB8 7.5-10.0'	SL	12/16	908	1								Ice	X X	4L17002-13
2	MPB3 12.5-15.0'			921											14
3	MPB9 2.5-5.0'			940											15
4	MPB9 7.5-10.0'			1000											16
5	MPB9 17.5-20.0'			1015											17
6	MPB10 2.5-5.0'			1028											18
7	MPB10 17.5-20.0'			1055											19
8	MPB11 0-2.5'			1130											20
9	MPB11 10.0-12.5'			1134											21
10	MPB3 0-2.5'			1235											22
11	MPB3 ~~5.0-7.5~~ 12.5-15.0			1250											23
12	MPB12 0-2.5'			1310											24

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Hand Deliver					[signature]	12/17	0600	Kal-d/K7Q	12/17/04	0800

SAMPLE CONDITION

Temp in °C	2.5
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Shawn Hokanson
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 12/16/04

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Form COC01 Rev 0601

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

658841

Page: 3 of 3

Section A — Required Client Information:

Company	Kane Environmental
Address	4713 Rosewood
	Midland TX 79707
Phone	4326898675
Fax	

Section B — Required Client Information:

Report To:	Deb Lambertsen
Copy To:	Shawn Hokason hokanson@cox.net
Invoice To:	Deb Lambertsen
P.O.	
Project Name:	Mattie Price Battery
Project Number:	04-631

Client Information (Check quote/contract):

Requested Due Date: TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:	
Project Manager:	
Project #:	
Profile #:	
Requested Analysis:	TPH (GRO/DRO), BTEX

Section D — Required Client Information:

Valid Matrix Codes: MATRIX / CODE — WATER WT, SOIL SL (circled), OIL OL, WIPE WP, AIR AR, TISSUE TS, OTHER OT

ITEM #	SAMPLE ID (One character per box. (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED mm/dd/yy	TIME COLLECTED hh:mm a/p	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: TPH (GRO/DRO), BTEX	Remarks / Lab ID
1	MPB-2 5.0-7.5'		12/16	1320	1								↓	X X	4lL17002-25
2	MPB-2 12.5-15.0'		↓	1330	↓								↓	↓	26
3	MPB-3 0-2.5'		↓	1400	↓								↓	↓	27
4	MPB-3 12.5-15.0'		↓	1410	↓								↓	↓	28
5	MPB-4 0-2.5'		↓	1425	↓								↓	↓	29
6	MPB-4 10-12.5'		↓	1447	↓								↓	↓	30
7	MPB-5 0-2.5'		↓	1513	↓								↓	↓	31
8	MPB-5 12.5-15.0'		↓	1525	↓								↓	↓	32
9	MPB-6 0-2.5'		↓	1540	↓								↓	↓	33
10	MPB-6 12.5-15.0'		↓	1555	↓								↓	↓	34
11															
12															

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
hand deliver					[signature]	12/17	600	[signature]	12-17-04	0800

SAMPLE CONDITION

Temp in °C	2.5
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Shawn Hokason

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12/16/04

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Form COC01 Rev 0501

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Deb Lambertson

Kane Environmental (Midland)

4713 Rosewood Drive

Midland, TX 79707

Project: Mattie Price Battery

Project Number: 04-631

Location: None Given

Lab Order Number: 4L17002

Report Date: 12/27/04

Kane Environmental (Midland)	Project: Mattie Price Battery	Fax: (432) 689-7785
4713 Rosewood Drive	Project Number: 04-631	**Reported:**
Midland TX, 79707	Project Manager: Deb Lambertson	12/27/04 10:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MPB-4 0-2, 5.0'	4L17002-01	Soil	12/15/04 14:30	12/17/04 08:00
MPB-4 12,5-15.0'	4L17002-02	Soil	12/15/04 14:50	12/17/04 08:00
MPB-5 7.5-10.0'	4L17002-03	Soil	12/15/04 15:00	12/17/04 08:00
MPB-5 12.5-15.0'	4L17002-04	Soil	12/15/04 15:20	12/17/04 08:00
MPB-6 5.0-7.5'	4L17002-05	Soil	12/15/04 15:55	12/17/04 08:00
MPB-6 12.5-15.0'	4L17002-06	Soil	12/15/04 16:00	12/17/04 08:00
MPB-7 7.5-10.0'	4L17002-07	Soil	12/15/04 16:41	12/17/04 08:00
MPB-7 17.5-20.0'	4L17002-08	Soil	12/15/04 17:01	12/17/04 08:00
MPB-1 5.0-7.5'	4L17002-09	Soil	12/16/04 08:04	12/17/04 08:00
MPB-1 12.5-15.0	4L17002-10	Soil	12/16/04 08:18	12/17/04 08:00
MPB-2 0-2.5'	4L17002-11	Soil	12/16/04 08:35	12/17/04 08:00
MPB-2 12.5-15.0'	4L17002-12	Soil	12/16/04 08:45	12/17/04 08:00
MPB-8 7.5-10.0'	4L17002-13	Soil	12/16/04 09:08	12/17/04 08:00
MPB-8 12.5-15.0'	4L17002-14	Soil	12/16/04 09:21	12/17/04 08:00
MPB-9 2.5-5.0'	4L17002-15	Soil	12/16/04 09:40	12/17/04 08:00
MPB-9 7.5-10.0'	4L17002-16	Soil	12/16/04 10:00	12/17/04 08:00
MPB-9 17.5-20.0'	4L17002-17	Soil	12/16/04 10:15	12/17/04 08:00
MPB-10 2.5-5.0'	4L17002-18	Soil	12/16/04 10:28	12/17/04 08:00
MPB-10 17.5-20.0'	4L17002-19	Soil	12/16/04 10:55	12/17/04 08:00
MPB-11 0-2.5'	4L17002-20	Soil	12/16/04 11:30	12/17/04 08:00
MPB-11 10.0-12.5'	4L17002-21	Soil	12/16/04 11:34	12/17/04 08:00
MPB-3 0-2.5	4L17002-22	Soil	12/16/04 12:35	12/17/04 08:00
MPB-3 12.5-15.0'	4L17002-23	Soil	12/16/04 12:50	12/17/04 08:00
MPB-12 0-2.5'	4L17002-24	Soil	12/16/04 13:10	12/17/04 08:00
MPB-12 5.0-7.5'	4L17002-25	Soil	12/16/04 13:20	12/17/04 08:00
MPB-12 12.5-15.0'	4L17002-26	Soil	12/16/04 13:30	12/17/04 08:00
MPB-13 0-2.5'	4L17002-27	Soil	12/16/04 14:00	12/17/04 08:00
MPB-13 12.5-15.0'	4L17002-28	Soil	12/16/04 14:10	12/17/04 08:00
MPB-14 0-2.5'	4L17002-29	Soil	12/16/04 14:21	12/17/04 08:00
MPB-14 10-12.5'	4L17002-30	Soil	12/16/04 14:47	12/17/04 08:00
MPB-15 0-2.5'	4L17002-31	Soil	12/16/04 15:05	12/17/04 08:00
MPB-15 12.5-15.0'	4L17002-32	Soil	12/16/04 15:25	12/17/04 08:00
MPB-16 0-2.5'	4L17002-33	Soil	12/16/04 15:40	12/17/04 08:00
MPB-16 12.5-15.0'	4L17002-34	Soil	12/16/04 15:55	12/17/04 08:00

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Kane Environmental (Midland) 4713 Rosewood Drive Midland TX, 79707	Project: Mattie Price Battery Project Number: 04-631 Project Manager: Deb Lambertson	Fax: (432) 689-7785 **Reported:** 12/27/04 10:29

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-4 0-2, 5.0' (4L17002-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	
MPB-4 12,5-15.0' (4L17002-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.0 %*	*70-130*		"	"	"	"	
MPB-5 7.5-10.0' (4L17002-03) Soil									
Benzene	**0.154**	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	**1.41**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.388**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.90**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.385**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*184 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*139 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**1090**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1650**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2740**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-5 7.5-10.0' (4L17002-03) Soil									
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		*EL41710*	*12/17/04*	*12/17/04*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	
MPB-5 12.5-15.0' (4L17002-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	**J [0.0160]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0203]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0325**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**15.5**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**22.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**37.5**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*97.8 %*	*70-130*		"	"	"	"	
MPB-6 5.0-7.5' (4L17002-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.0287**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0542**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.277**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0717**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**29.4**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**65.6**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**95.0**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*91.6 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-6 12.5-15.0' (4L17002-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*97.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.8 %*	*70-130*		"	"	"	"	
MPB-7 7.5-10.0' (4L17002-07) Soil									
Benzene	**J [0.0169]**	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	J
Toluene	**0.966**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.375**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.31**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.418**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*147 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**863**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1530**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2390**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*121 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*124 %*	*70-130*		"	"	"	"	
MPB-7 17.5-20.0' (4L17002-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/20/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-7 17.5-20.0' (4L17002-08) Soil									
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		*EL41710*	*12/17/04*	*12/17/04*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*91.4 %*	*70-130*		"	"	"	"	
MPB-1 5.0-7.5' (4L17002-09) Soil									
Benzene	**0.175**	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	**1.42**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.457**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.71**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.441**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*215 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*164 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**527**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**828**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1360**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.4 %*	*70-130*		"	"	"	"	
MPB-1 12.5-15.0 (4L17002-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	**0.106**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.154**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.924**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.253**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*136 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**311**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**812**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1120**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	

Kane Environmental (Midland)	Project: Mattie Price Battery	Fax: (432) 689-7785
4713 Rosewood Drive	Project Number: 04-631	**Reported:**
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-2 0-2.5' (4L17002-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	**J [0.0248]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**J [0.0169]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0389**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0272**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*130 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**13.6**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**26.5**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**40.1**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.8 %*	*70-130*		"	"	"	"	
MPB-2 12.5-15.0' (4L17002-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.6 %*	*70-130*		"	"	"	"	
MPB-8 7.5-10.0' (4L17002-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	**ND**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0455**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.310**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.118**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**52.7**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**218**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**271**	10.0	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-9 7.5-10.0' (4L17002-16) Soil									
Benzene	**0.0946**	0.0250	mg/kg dry	25	EL42010	12/17/04	12/17/04	EPA 8021B	
Toluene	**1.22**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.936**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**8.23**	0.0250	"	"	"	"	"	"	
Xylene (o)	**4.53**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*182 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*141 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**701**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1180**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1880**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*110 %*	*70-130*		"	"	"	"	
MPB-9 17.5-20.0' (4L17002-17) Soil									
Benzene	**0.0361**	0.0250	mg/kg dry	25	EL42010	12/17/04	12/18/04	EPA 8021B	
Toluene	**0.552**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.221**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.29**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.328**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*132 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**727**	10.0	mg/kg dry	1	EL41710	12/17/04	12/17/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1700**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2430**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*116 %*	*70-130*		"	"	"	"	
MPB-10 2.5-5.0' (4L17002-18) Soil									
Benzene	**0.250**	0.0250	mg/kg dry	25	EL42103	12/20/04	12/20/04	EPA 8021B	
Toluene	**1.03**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.664**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**6.16**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.599**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*548 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*145 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**211**	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	**448**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**659**	10.0	"	"	"	"	"	"	

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4713 Rosewood Drive	Project Number: 04-631	**Reported:**
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-10 2.5-5.0' (4L17002-18) Soil									
Surrogate: 1-Chlorooctane		*96.8 %*	*70-130*		*EL41710*	*12/17/04*	*12/18/04*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*87.2 %*	*70-130*		"	"	"	"	
MPB-10 17.5-20.0' (4L17002-19) Soil									
Benzene	**0.132**	0.0250	mg/kg dry	25	EL42103	12/20/04	12/20/04	EPA 8021B	
Toluene	**1.08**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.427**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.35**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.204**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*195 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*116 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**771**	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1480**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2250**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*122 %*	*70-130*		"	"	"	"	
MPB-11 0-2.5' (4L17002-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42103	12/20/04	12/20/04	EPA 8021B	
Toluene	**0.0386**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0581**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.309**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0748**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*74.4 %*	*70-130*		"	"	"	"	

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4713 Rosewood Drive	Project Number: 04-631	**Reported:**
Midland TX, 79707	Project Manager: Deb Lambertson	12/27/04 10:29

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-11 10.0-12.5' (4L17002-21) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42103	12/20/04	12/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.8 %*	*70-130*		"	"	"	"	
MPB-3 0-2.5 (4L17002-22) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42103	12/20/04	12/20/04	EPA 8021B	
Toluene	**J [0.0111]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.0268**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0900**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0314**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**260**	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	**4360**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**4620**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*84.8 %*	*70-130*		"	"	"	"	
MPB-3 12.5-15.0' (4L17002-23) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42103	12/20/04	12/20/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	**12.5**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**12.5**	10.0	"	"	"	"	"	"	

Kane Environmental (Midland)	Project: Mattie Price Battery	Fax: (432) 689-7785
4713 Rosewood Drive	Project Number: 04-631	**Reported:**
Midland TX, 79707	Project Manager: Deb Lambertson	12/27/04 10:29

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-3 12.5-15.0' (4L17002-23) Soil									
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		*EL41710*	*12/17/04*	*12/18/04*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*99.2 %*	*70-130*		"	"	"	"	
MPB-12 0-2.5' (4L17002-24) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42103	12/20/04	12/20/04	EPA 8021B	
Toluene	**J [0.0247]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.0429**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0607**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0322**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**14.9**	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**14.9**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.2 %*	*70-130*		"	"	"	"	
MPB-12 5.0-7.5' (4L17002-25) Soil									
Benzene	**J [0.0201]**	0.0250	mg/kg dry	25	EL42103	12/20/04	12/20/04	EPA 8021B	J
Toluene	**0.546**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.230**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.01**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.196**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*149 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*132 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**711**	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1430**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2140**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*123 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-12 12.5-15.0' (4L17002-26) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/20/04	EPA 8021B	
Toluene	**0.0973**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0626**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.881**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.146**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**141**	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	**408**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**549**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.4 %*	*70-130*		"	"	"	"	
MPB-13 0-2.5' (4L17002-27) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/21/04	EPA 8021B	
Toluene	**0.0615**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.100**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.444**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.125**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**34.0**	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	**347**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**381**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.8 %*	*70-130*		"	"	"	"	
MPB-13 12.5-15.0' (4L17002-28) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	**30.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**30.0**	10.0	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-13 12.5-15.0' (4L17002-28) Soil									
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		*EL41710*	*12/17/04*	*12/18/04*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*85.4 %*	*70-130*		"	"	"	"	
MPB-14 0-2.5' (4L17002-29) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*97.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.6 %*	*70-130*		"	"	"	"	
MPB-14 10-12.5' (4L17002-30) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*94.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*82.8 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-15 0-2.5' (4L17002-31) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/18/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.8 %*	*70-130*		"	"	"	"	
MPB-15 12.5-15.0' (4L17002-32) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*127 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*115 %*	*70-130*		"	"	"	"	
MPB-16 0-2.5' (4L17002-33) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-16 0-2.5' (4L17002-33) Soil									
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*EL41710*	*12/17/04*	*12/19/04*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*90.0 %*	*70-130*		"	"	"	"	
MPB-16 12.5-15.0' (4L17002-34) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL42206	12/20/04	12/21/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL41710	12/17/04	12/19/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*81.0 %*	*70-130*		"	"	"	"	

Kane Environmental (Midland)	Project: Mattie Price Battery	Fax: (432) 689-7785
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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-4 0-2, 5.0' (4L17002-01) Soil									
% Moisture	**15.0**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-4 12,5-15.0' (4L17002-02) Soil									
% Moisture	**14.2**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-5 7.5-10.0' (4L17002-03) Soil									
% Moisture	**14.1**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-5 12.5-15.0' (4L17002-04) Soil									
% Moisture	**14.3**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-6 5.0-7.5' (4L17002-05) Soil									
% Moisture	**14.8**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-6 12.5-15.0' (4L17002-06) Soil									
% Moisture	**11.4**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-7 7.5-10.0' (4L17002-07) Soil									
% Moisture	**15.4**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-7 17.5-20.0' (4L17002-08) Soil									
% Moisture	**15.9**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-1 5.0-7.5' (4L17002-09) Soil									
% Moisture	**13.2**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-1 12.5-15.0 (4L17002-10) Soil									
% Moisture	**9.6**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-2 0-2.5' (4L17002-11) Soil									
% Moisture	**14.9**		%	1	EL42003	12/17/04	12/20/04	% calculation	

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4713 Rosewood Drive	Project Number: 04-631	**Reported:**
Midland TX, 79707	Project Manager: Deb Lambertson	12/27/04 10:29

General Chemistry Parameters by EPA / Standard Methods

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-2 12.5-15.0' (4L17002-12) Soil									
% Moisture	**15.5**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-8 7.5-10.0' (4L17002-13) Soil									
% Moisture	**13.0**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-8 12.5-15.0' (4L17002-14) Soil									
% Moisture	**18.8**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-9 2.5-5.0' (4L17002-15) Soil									
% Moisture	**15.6**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-9 7.5-10.0' (4L17002-16) Soil									
% Moisture	**12.9**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-9 17.5-20.0' (4L17002-17) Soil									
% Moisture	**12.4**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-10 2.5-5.0' (4L17002-18) Soil									
% Moisture	**17.4**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-10 17.5-20.0' (4L17002-19) Soil									
% Moisture	**12.0**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-11 0-2.5' (4L17002-20) Soil									
% Moisture	**17.4**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-11 10.0-12.5' (4L17002-21) Soil									
% Moisture	**8.2**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-3 0-2.5 (4L17002-22) Soil									
% Moisture	**15.5**		%	1	EL42003	12/17/04	12/20/04	% calculation	

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General Chemistry Parameters by EPA / Standard Methods

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-3 12.5-15.0' (4L17002-23) Soil									
% Moisture	**7.3**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-12 0-2.5' (4L17002-24) Soil									
% Moisture	**16.0**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-12 5.0-7.5' (4L17002-25) Soil									
% Moisture	**10.7**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-12 12.5-15.0' (4L17002-26) Soil									
% Moisture	**14.1**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-13 0-2.5' (4L17002-27) Soil									
% Moisture	**13.3**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-13 12.5-15.0' (4L17002-28) Soil									
% Moisture	**11.3**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-14 0-2.5' (4L17002-29) Soil									
% Moisture	**15.8**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-14 10-12.5' (4L17002-30) Soil									
% Moisture	**5.7**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-15 0-2.5' (4L17002-31) Soil									
% Moisture	**14.9**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-15 12.5-15.0' (4L17002-32) Soil									
% Moisture	**14.4**		%	1	EL42003	12/17/04	12/20/04	% calculation	
MPB-16 0-2.5' (4L17002-33) Soil									
% Moisture	**15.1**		%	1	EL42003	12/17/04	12/20/04	% calculation	

Kane Environmental (Midland)	Project: Mattie Price Battery	Fax: (432) 689-7785
4713 Rosewood Drive	Project Number: 04-631	**Reported:**
Midland TX, 79707	Project Manager: Deb Lambertson	12/27/04 10:29

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MPB-16 12.5-15.0' (4L17002-34) Soil									
% Moisture	**15.8**		%	1	EL42003	12/17/04	12/20/04	% calculation	

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL41710 - Solvent Extraction (GC)										
Blank (EL41710-BLK1)				Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*40.5*		*mg/kg*	*50.0*		*81.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.1*		*"*	*50.0*		*78.2*	*70-130*			
Blank (EL41710-BLK2)				Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*49.6*		*mg/kg*	*50.0*		*99.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.9*		*"*	*50.0*		*87.8*	*70-130*			
LCS (EL41710-BS1)				Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	466	10.0	mg/kg wet	500		93.2	75-125			
Diesel Range Organics >C12-C35	477	10.0	"	500		95.4	75-125			
Total Hydrocarbon C6-C35	943	10.0	"	1000		94.3	75-125			
Surrogate: 1-Chlorooctane	*47.8*		*mg/kg*	*50.0*		*95.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.5*		*"*	*50.0*		*81.0*	*70-130*			
LCS (EL41710-BS2)				Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	454	10.0	mg/kg wet	500		90.8	75-125			
Diesel Range Organics >C12-C35	497	10.0	"	500		99.4	75-125			
Total Hydrocarbon C6-C35	951	10.0	"	1000		95.1	75-125			
Surrogate: 1-Chlorooctane	*45.8*		*mg/kg*	*50.0*		*91.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.6*		*"*	*50.0*		*81.2*	*70-130*			
Calibration Check (EL41710-CCV1)				Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	478		mg/kg	500		95.6	80-120			
Diesel Range Organics >C12-C35	487		"	500		97.4	80-120			
Total Hydrocarbon C6-C35	965		"	1000		96.5	80-120			
Surrogate: 1-Chlorooctane	*53.0*		*"*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.2*		*"*	*50.0*		*90.4*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL41710 - Solvent Extraction (GC)										
Calibration Check (EL41710-CCV2)				Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	483		mg/kg	500		96.6	80-120			
Diesel Range Organics >C12-C35	548		"	500		110	80-120			
Total Hydrocarbon C6-C35	1030		"	1000		103	80-120			
Surrogate: 1-Chlorooctane	*51.5*		*"*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.7*		*"*	*50.0*		*85.4*	*70-130*			
Matrix Spike (EL41710-MS1)	**Source: 4L17002-01**			Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	586	10.0	mg/kg dry	588	ND	99.7	75-125			
Diesel Range Organics >C12-C35	609	10.0	"	588	ND	104	75-125			
Total Hydrocarbon C6-C35	1200	10.0	"	1180	ND	102	75-125			
Surrogate: 1-Chlorooctane	*58.1*		*mg/kg*	*50.0*		*116*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.7*		*"*	*50.0*		*107*	*70-130*			
Matrix Spike (EL41710-MS2)	**Source: 4L17002-21**			Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	525	10.0	mg/kg dry	545	ND	96.3	75-125			
Diesel Range Organics >C12-C35	557	10.0	"	545	ND	102	75-125			
Total Hydrocarbon C6-C35	1080	10.0	"	1090	ND	99.1	75-125			
Surrogate: 1-Chlorooctane	*54.4*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.5*		*"*	*50.0*		*91.0*	*70-130*			
Matrix Spike Dup (EL41710-MSD1)	**Source: 4L17002-01**			Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	593	10.0	mg/kg dry	588	ND	101	75-125	1.19	20	
Diesel Range Organics >C12-C35	631	10.0	"	588	ND	107	75-125	3.55	20	
Total Hydrocarbon C6-C35	1220	10.0	"	1180	ND	103	75-125	1.65	20	
Surrogate: 1-Chlorooctane	*57.7*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.9*		*"*	*50.0*		*108*	*70-130*			
Matrix Spike Dup (EL41710-MSD2)	**Source: 4L17002-21**			Prepared: 12/17/04 Analyzed: 12/23/04						
Gasoline Range Organics C6-C12	535	10.0	mg/kg dry	545	ND	98.2	75-125	1.89	20	
Diesel Range Organics >C12-C35	558	10.0	"	545	ND	102	75-125	0.179	20	
Total Hydrocarbon C6-C35	1090	10.0	"	1090	ND	100	75-125	0.922	20	
Surrogate: 1-Chlorooctane	*55.2*		*mg/kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.8*		*"*	*50.0*		*91.6*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL42010 - EPA 5030C (GC)										
Blank (EL42010-BLK1)				Prepared & Analyzed: 12/17/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*85.6*		*ug/kg*	*100*		*85.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*108*		"	*100*		*108*	*80-120*			
LCS (EL42010-BS1)				Prepared & Analyzed: 12/17/04						
Benzene	99.1		ug/kg	100		99.1	80-120			
Toluene	98.8		"	100		98.8	80-120			
Ethylbenzene	105		"	100		105	80-120			
Xylene (p/m)	234		"	200		117	80-120			
Xylene (o)	114		"	100		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	*104*		"	*100*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*116*		"	*100*		*116*	*80-120*			
Calibration Check (EL42010-CCV1)				Prepared: 12/17/04 Analyzed: 12/18/04						
Benzene	104		ug/kg	100		104	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	105		"	100		105	80-120			
Xylene (p/m)	232		"	200		116	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	*107*		"	*100*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*116*		"	*100*		*116*	*80-120*			
Matrix Spike (EL42010-MS1)	**Source: 4L17002-17**			Prepared: 12/17/04 Analyzed: 12/18/04						
Benzene	2680		ug/kg	2500	31.6	106	80-120			
Toluene	3230		"	2500	484	110	80-120			
Ethylbenzene	2600		"	2500	194	96.2	80-120			
Xylene (p/m)	6270		"	5000	1130	103	80-120			
Xylene (o)	2540		"	2500	287	90.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	*124*		"	*100*		*124*	*80-120*			*S-04*
Surrogate: 4-Bromofluorobenzene	*131*		"	*100*		*131*	*80-120*			*S-04*

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL42010 - EPA 5030C (GC)										
Matrix Spike Dup (EL42010-MSD1)	**Source: 4L17002-17**			Prepared: 12/17/04 Analyzed: 12/18/04						
Benzene	2720		ug/kg	2500	31.6	108	80-120	1.87	20	
Toluene	3270		"	2500	484	111	80-120	0.905	20	
Ethylbenzene	2960		"	2500	194	111	80-120	14.3	20	
Xylene (p/m)	7030		"	5000	1130	118	80-120	13.6	20	
Xylene (o)	3020		"	2500	287	109	80-120	19.0	20	
Surrogate: a,a,a-Trifluorotoluene	*132*		"	*100*		*132*	*80-120*			*S-04*
Surrogate: 4-Bromofluorobenzene	*165*		"	*100*		*165*	*80-120*			*S-04*
Batch EL42103 - EPA 5030C (GC)										
Blank (EL42103-BLK1)				Prepared & Analyzed: 12/20/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*86.0*		*ug/kg*	*100*		*86.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*104*		"	*100*		*104*	*80-120*			
LCS (EL42103-BS1)				Prepared & Analyzed: 12/20/04						
Benzene	90.0		ug/kg	100		90.0	80-120			
Toluene	90.8		"	100		90.8	80-120			
Ethylbenzene	99.8		"	100		99.8	80-120			
Xylene (p/m)	224		"	200		112	80-120			
Xylene (o)	108		"	100		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*98.5*		"	*100*		*98.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*117*		"	*100*		*117*	*80-120*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL42103 - EPA 5030C (GC)										
Calibration Check (EL42103-CCV1)				Prepared & Analyzed: 12/20/04						
Benzene	93.0		ug/kg	100		93.0	80-120			
Toluene	93.9		"	100		93.9	80-120			
Ethylbenzene	97.6		"	100		97.6	80-120			
Xylene (p/m)	215		"	200		108	80-120			
Xylene (o)	101		"	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	*114*		"	*100*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*107*		"	*100*		*107*	*80-120*			
Matrix Spike (EL42103-MS1)	**Source: 4L17002-25**			Prepared & Analyzed: 12/20/04						
Benzene	2190		ug/kg	2500	17.9	86.9	80-120			
Toluene	2900		"	2500	488	96.5	80-120			
Ethylbenzene	2720		"	2500	205	101	80-120			
Xylene (p/m)	6670		"	5000	1790	97.6	80-120			
Xylene (o)	2530		"	2500	175	94.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*168*		"	*100*		*168*	*80-120*			*S-04*
Surrogate: 4-Bromofluorobenzene	*128*		"	*100*		*128*	*80-120*			*S-04*
Matrix Spike Dup (EL42103-MSD1)	**Source: 4L17002-25**			Prepared & Analyzed: 12/20/04						
Benzene	2400		ug/kg	2500	17.9	95.3	80-120	9.22	20	
Toluene	3090		"	2500	488	104	80-120	7.48	20	
Ethylbenzene	2710		"	2500	205	100	80-120	0.995	20	
Xylene (p/m)	6790		"	5000	1790	100	80-120	2.43	20	
Xylene (o)	2500		"	2500	175	93.0	80-120	1.28	20	
Surrogate: a,a,a-Trifluorotoluene	*175*		"	*100*		*175*	*80-120*			*S-04*
Surrogate: 4-Bromofluorobenzene	*131*		"	*100*		*131*	*80-120*			*S-04*
Batch EL42206 - EPA 5030C (GC)										
Blank (EL42206-BLK1)				Prepared & Analyzed: 12/20/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*94.2*		*ug/kg*	*100*		*94.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*95.1*		"	*100*		*95.1*	*80-120*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL42206 - EPA 5030C (GC)										
LCS (EL42206-BS1)				Prepared & Analyzed: 12/20/04						
Benzene	88.7		ug/kg	100		88.7	80-120			
Toluene	90.6		"	100		90.6	80-120			
Ethylbenzene	98.5		"	100		98.5	80-120			
Xylene (p/m)	217		"	200		108	80-120			
Xylene (o)	102		"	100		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*114*		"	*100*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*115*		"	*100*		*115*	*80-120*			
Calibration Check (EL42206-CCV1)				Prepared: 12/20/04 Analyzed: 12/21/04						
Benzene	87.2		ug/kg	100		87.2	80-120			
Toluene	82.0		"	100		82.0	80-120			
Ethylbenzene	81.4		"	100		81.4	80-120			
Xylene (p/m)	180		"	200		90.0	80-120			
Xylene (o)	87.7		"	100		87.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	*105*		"	*100*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*96.0*		"	*100*		*96.0*	*80-120*			
Matrix Spike (EL42206-MS1)	**Source: 4L17002-33**			Prepared: 12/20/04 Analyzed: 12/21/04						
Benzene	90.6		ug/kg	100	ND	90.6	80-120			
Toluene	90.5		"	100	ND	90.5	80-120			
Ethylbenzene	99.7		"	100	ND	99.7	80-120			
Xylene (p/m)	225		"	200	ND	112	80-120			
Xylene (o)	109		"	100	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*113*		"	*100*		*113*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*113*		"	*100*		*113*	*80-120*			
Matrix Spike Dup (EL42206-MSD1)	**Source: 4L17002-33**			Prepared: 12/20/04 Analyzed: 12/21/04						
Benzene	93.2		ug/kg	100	ND	93.2	80-120	2.83	20	
Toluene	93.2		"	100	ND	93.2	80-120	2.94	20	
Ethylbenzene	100		"	100	ND	100	80-120	0.300	20	
Xylene (p/m)	225		"	200	ND	112	80-120	0.00	20	
Xylene (o)	108		"	100	ND	108	80-120	0.922	20	
Surrogate: a,a,a-Trifluorotoluene	*118*		"	*100*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*119*		"	*100*		*119*	*80-120*			

Kane Environmental (Midland)	Project: Mattie Price Battery	Fax: (432) 689-7785
4713 Rosewood Drive	Project Number: 04-631	**Reported:**
Midland TX, 79707	Project Manager: Deb Lambertson	12/27/04 10:29

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL42003 - General Preparation (Prep)										
Blank (EL42003-BLK1)				Prepared: 12/17/04 Analyzed: 12/20/04						
% Moisture	0.004		%							
Duplicate (EL42003-DUP1)		**Source: 4L17002-01**		Prepared: 12/17/04 Analyzed: 12/20/04						
% Moisture	15.6		%		15.0			3.92	20	

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 12/27/2004

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Kane Environmental

Date/Time: 12-17-04 0830

Order #: 4L17002

Initials: AT

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	2.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

Trip Blank arrived w/ Sample. 2 VOA's - not on COC.
No method Listed for TPH.

Variance Documentation:

Contact Person: - Deb Date/Time: 12-17-04 Contacted by: AT.

Regarding:

Left message will Return Call.

Corrective Action Taken:

SITE HEALTH AND SAFETY PLAN

A. INTRODUCTION

Site Owner/Operator Name: _____

Name of Site: _____

Date of Investigation: _____

Location of Property: _____

B. SITE DESCRIPTION

Description of Project:_____
_____
_____

Description of Site:_____
_____

Description of Surrounding Area: Topography: _____ rocky _____ sandy beach _____ docks _____ cliffs _____ marshes _____ other: _____

Description of Surrounding Population: _____ industrial _____ residential _____ rural _____ unpopulated _____ other: _____

Additional Information: _____
_____
_____
_____

Weather Conditions:_____
_____
_____
_____

Wind	Current	6-Hr Forecast	12-Hr Forecast
Direction:			
Velocity:			
Character:			

C. **CHAIN OF COMMAND**

Onsite Supervisor:_____
Other Onsite Personnel:_____
_____
_____

D. **Pre-Entry Briefing/Work plan** (brief description of activities, tasks, approximate work force, special equipment required, and potential safety and health hazards).

_____
_____
_____

E. **Other Safety and Health Hazards** (description of safety and health hazards which may be associated with the project activities described above.) Potential hazards may include: (Check those that apply.)

Y	N	
( )	( )	Skin contact with hazardous substance. (List material)
( )	( )	Water hazards including high winds and boating hazards;
( )	( )	Heat stress/Heat exhaustion;
( )	( )	Hazards to the eye;
( )	( )	Cuts and abrasions;
( )	( )	Vehicular/pedestrian traffic;
( )	( )	Slippery ground;
( )	( )	Uneven terrain;
( )	( )	Sunburn/Hypothermia
( )	( )	Poor visibility;
( )	( )	Water hazards;
( )	( )	Dust hazards;
( )	( )	Hearing hazards;
( )	( )	Ultraviolet radiation/sunlight;
( )	( )	Elevated work;
( )	( )	Overhead loads;
( )	( )	Heavy equipment operation hazards;
( )	( )	Aircraft operation hazards;
( )	( )	Burn hazards (heat tracing, boilers, warming fires, etc.);
( )	( )	Uncontrolled fire;
( )	( )	Unignited flammable vapors;
( )	( )	Biological hazards (medical waste);
( )	( )	Electrical hazards;
( )	( )	Other (Specify) in high airborne concentrations, the use of an approved respirator is recommended. Do not attempt rescue without approved supplied air of self-contained breathing equipment.

F. HAZARD EVALUATION

Complete as applicable:

Hazard	Concentrations	Primary Hazards
LEL/Oxygen		
Total Hydrocarbons (Benzene, Toluene, Xylene)		
Hydrogen Sulfide		

Material Safety Data Sheets for these substances are available?

G. EMERGENCY MEDICAL INFORMATION FOR SUBSTANCES PRESENT

Substance: (list material)

Exposure Symptoms (i.e. skin, ingestion)

_____
_____
_____
_____

_____
_____
_____
_____

_____
_____
_____
_____

First Aid Instructions

_____
_____
_____
_____

_____
_____
_____
_____

_____
_____
_____
_____

H. FIRST AID EQUIPMENT AVAILABLE ON SITE OR AT THE FOLLOWING LOCATIONS:

First Aid Kit_____
Emergency Eye Wash_____
Emergency Shower_____
Other_____

I. EMERGENCY MEDICAL ASSISTANCE (EMS, Hospitals)

See emergency contact information in Section 4.

J. HAZARD REDUCTION PROCEDURES

Hazard	Method
Eye Contact	Wear Chemical Safety Goggles
Skin Contact	Wear Impervious Protective Clothing
High Airborne Concentrations	Use Approved Respiratory Protection
Fire Protection	When Fighting Fires, Do Not Enter a Confined Space Without Proper Protective Equipment, Including Self-Contained Breathing Apparatus.

K. PERSONAL PROTECTIVE EQUIPMENT

Rain Suits _____

Goggles _____

Gloves (Impervious) _____

Boots _____

Barrier Cream _____

SCBA/Respirator_____

_

Air Purifying Respirator _____

Sunscreen

_____

Flotation Devices _____

Hard Hats _____

Duct Tape _____

Other (Specify) _____

L. SITE CONTROL

1. Anyone entering or departing a WORK AREA shall report to the site supervisor or designated representative.

2. No personnel shall enter a site without subscribing to the Site Safety and Health Plan.

3. The buddy system is preferred at every site, and mandatory if H_2S gas is present.

4. Training.

   a. In general, all personnel on site shall be trained adequately to perform their assigned tasks safely. The general training level requirement is technician level and/or routine site worker (40 hours and 3 days OJT min.) except as noted below.

JOB DESCRIPTION:	TRAINING LEVEL:

   b. All personnel entering the site shall be fully informed about applicable hazards and procedures on site.

M. DECONTAMINATION

Partial Decontamination Station Locations	Procedures

Full Decontamination Station Locations	Procedures

N. AIR MONITORING

Monitoring shall be conducted with monitoring equipment calibrated and maintained in accordance with the manufacturer's instructions (electronic equipment shall be calibrated before each day's use) when hazardous gases are present.

Monitor:	**Frequency:**
___ Combustible gas	___ continuous, ___ hourly, ___ daily, OTHER:
___ Oxygen	___ continuous, ___ hourly, ___ daily, OTHER:
___ H2S dosimeter	___ continuous, ___ hourly, ___ daily, OTHER:
___ H2S level	___ continuous, ___ hourly, ___ daily, OTHER:
___ HNU	___ continuous, ___ hourly, ___ daily, OTHER:
___ OVA	___ continuous, ___ hourly, ___ daily, OTHER:
___ WBGT	___ continuous, ___ hourly, ___ daily, OTHER:
___ Noise	___ continuous, ___ hourly, ___ daily, OTHER:
___ OTHER:	___ continuous, ___ hourly, ___ daily, OTHER:

O. COMMUNICATIONS PLAN

The following standard hand signals have the following meanings:

Hand gripping throat.....Out of air/can't breath
Grip buddy's wrist.....Leave area immediately
Both hands around waist.....Leave area immediately
Hands on top of head.....Need assistance
Thumbs up.....O.K., I'm all right, I understand
Thumbs down.....No, negative

P. MEDICAL SURVEILLANCE REQUIRED:

Q. **ALL SITE PERSONNEL HAVE READ THE ABOVE PLAN, AND ARE FAMILIAR WITH THE PROVISIONS HEREIN.**

	Name	Signature/Date
Site Safety Officer		
Project Personnel		