Basin Environmental Service Technologies, LLC

P. O. Box 301 Lovington, New Mexico 88260 rjohnson@basinenv.com Office: (505) 396-2378 Fax: (505) 396-1429



SOIL REMEDIATION and CLOSURE REQUEST

PLAINS MARKETING, L. P. Lea to Dublin 8" Line Lea County, New Mexico Plains EMS #2004-00223 Unit G (SW ¼, NE ¼), Section 28, Township 20 South, Range 37 East Latitude 32°, 32[°], 46.8[°] North, Longitude 103°, 15[°], 19.5[°] West

Prepared For:

Plains Marketing, L.P. 333 Clay Street Suite 1600 Houston, Texas 77002



Prepared By: Basin Environmental Service Technologies, LLC

August 15, 2005

Basin Environmental Service Technologies, LLC

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INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a pipeline release for Plains Marketing, L.P. (Plains), located on the Lea to Dublin 8" Pipeline on December 4, 2004. A 2-inch scraper valve at this pig trap location ruptured causing the release. The impacted soils were excavated and temporarily stockpiled on a poly liner.

This site is located in Unit G (SW ¼, NE ¼), Section 28, Township 20 South, Range 37 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site is located at latitude 32°, 32, 46.8 North and longitude 103°, 15, 19.5 West. The site is characterized by a right-of-way for the pipeline in an undulating sand dune pasture utilized for cattle grazing. The visible surface stained area includes the release point covering an area approximately 125 feet long by 130 feet wide. Approximately 910 barrels of crude oil were released from the Plains Pipeline and 860 barrels were recovered.

An Emergency One-Call was initiated December 4, 2004 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

The Millard Deck Estate owns the affected land. Mr. Tim Walters, Executor, Bank of America in Midland, Texas was notified of the release and subsequent remedial actions. The ranch foreman, Mr. Larry Strain, was notified and has made numerous visits to the release site. Mr. Strain was briefed on the continuing actions and is satisfied with the information he has been provided. Mr. Leo "Flap" Sims, Environmental Coordinator for the Millard Deck Estate, was also notified on the release and concurred with the remedial actions that have been proposed and completed.

Mr. Larry Johnson, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, was verbally notified of the release on December 4, 2004. A C-141 form, dated December 7, 2004 was completed by Plains and submitted to the NMOCD, Hobbs, New Mexico Office (see Appendix D, NMOCD C-141).

SUMMARY OF FIELD ACTIVITIES

On December 4, 2004, Basin responded to a pipeline release located on the Lea to Dublin 8" Pipeline to help contain the crude oil pipeline release under the direction of Plains operations personnel.

The release point and flow path were excavated removing impacted soils to dimensions approximately 125 feet long by 130 feet wide and 4 to 14 feet below ground surface (bgs) (see Figure 2, Site Map). All excavated soils were placed

on a poly liner for future remedial action. The visually stained flow path was excavated and confirmation samples were collected and delivered to the laboratory for analysis on January 3, 2005 and January 14, 2005. The confirmation soil samples collected were screened in the field with a Photoionization Detector (PID), (see Figure 2, Site Map) and soil screening results indicated no detectable Volatile Organic Compounds (VOC) present. All selected soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results of the confirmation soil samples indicate that the walls and floor of the excavated area are below NMOCD regulatory standards (see Table 1, Soil Chemistry Table).

A request for backfilling the excavation was proposed to Mr. Larry Johnson, NMOCD Hobbs Office on May 16, 2005 and verbally approved (Appendix C Request Approval for Backfill of Excavation). Mr. Leo "Flap" Sims, Environmental Coordinator for the Millard Deck Estate concurred with the request for backfilling the excavation. Backfill material was obtained from the Millard Deck Estate.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed the average depth to groundwater is 40 feet bgs. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of >20, which sets the remediation levels at:

Benzene: 10 ppm

BTEX: 50 ppm

TPH: 100 ppm

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The release point and flow path areas were excavated to depths of approximately 4 feet bgs to 14 feet bgs (see figure 2 site map) and no visual evidence of crude oil impact was evident on the floor or sidewalls following the completion of the excavation. PID readings indicated no detectable concentrations of Volatile Organic Compounds (VOC) remained on the floor or sidewalls of the excavation. Confirmation soil samples were collected from the excavation on January 3, 2005 and January 14, 2005; and were analyzed for concentrations of BTEX and TPH. Laboratory data sheets and chain-of-custody forms are attached (Appendix B).

Analytical results indicated detectable BTEX concentrations were below NMOCD regulatory standards for the South Excavation Floor, Middle Floor East, North Pipeline Floor, and North Floor soil samples at a depth of 6, 4, 8, and 4 feet bgs, respectively. Analytical results indicated BTEX concentrations were not detected above the laboratory detection limits for the remaining confirmation soil samples. Analytical results indicated detectable TPH concentrations were below NMOCD regulatory standards for South Excavation Side Wall, South Excavation Floor, Middle Floor East, and Middle Floor South soil samples at a depth of 3, 6, 4, and 4 feet bgs, respectively. Analytical results from the North Pipeline Floor reported a TPH concentration of 112 mg/kg, which is slightly above the NMOCD criteria of 100 mg/kg for TPH, but is within the margin for error of the laboratory equipment and was considered acceptable by the NMOCD. The remaining analytical results indicated TPH concentrations were not detected above the laboratory detection limits on the remaining confirmation soil samples.

RECOMMENDATIONS FOR REMEDIATION/CLOSURE

Approximately 3492 cubic yards of impacted soil was excavated and stockpiled on-site resulting from the emergency response and subsequent remedial activities. The impacted soil was transported to the Plains Lea Station Landfarm (LSLF). A permit (NMOCD Form C-138) was obtained from the NMOCD for the trucking of the contaminated soils to LSLF. A request for backfilling the exaction was proposed to Mr. Larry Johnson, NMOCD Hobbs Office on May 16, 2005, and verbally approved by Mr. Johnson (Appendix C Request Approval for Backfill of Excavation). The backfill material was obtained from the landowner (Millard Deck Estate). The excavation was backfilled and contoured to match the original rangeland grade surrounding the site and will be reseeded this fall with the landowners approved grass seed.

Based on the results of the remediation activities conducted, Basin, on behalf of Plains, requests that the NMOCD consider this site as eligible for closure under the New Mexico Oil Conservation Division Guidelines for Remediation of Leaks, Spills and Releases (1993). If the NMOCD concurs with this recommendation, please provide Plains with a letter stating no further action is required.

QA/QC PROCEDURES

Soil Sampling

Soil samples were delivered to Environmental Lab of Texas, Inc. in Odessa, Texas for BTEX, TPH analyses using the methods described below. Soil

samples were analyzed for BTEX, TPH-GRO/DRO within fourteen days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

Decontamination Of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox[®] detergent and rinsed with distilled water.

Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Soil Remediation and Closure Request Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC, has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Service Technologies, LLC, has prepared this report in a professional manner, using the degree of skill and care exercised bv similar environmental consultants. Basin Environmental Service Technologies, LLC, also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Marketing, L.P. The information contained in this report including all exhibits and attachments, may

not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and Plains Marketing, L.P.

DISTRIBUTION

- Copy 1: Jeff Dann Plains All American 333 Clay Street Suite 1600 Houston, Texas 77002 jpdann@paalp.com
- Copy 2: Camille Reynolds Plains All American 3112 West US 82 Lovington, New Mexico 88260 cjreynolds@paalp.com
- Copy 3: Larry Johnson New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240 Larry.Johnson@state.nm.us
- Copy 4: Basin Environmental Service Technologies LLC P. O. Box 301 Lovington, New Mexico 88260 rjohnson@basinenv.com
- Copy 5 and 6: Millard Deck Estate Delivered to: Leo "Flap" Sims, Environmental Coordinator

Сору

Tables





Table 1

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Soil Chemistry

				TAE	BLE 1				<u> </u>			
	SOIL CHEMISTRY											
PLAINS MARKETING, L.P.												
LEA TO DUBLIN 8" LINE												
LEA COUNTY, NEW MEXICO												
EMS: 2004-00223												
SAMPLE SAMPLE METHOD: EPA SW 846-8021B, 5030 METHOD: 8015M TOTAL												
LOCATION	DEPTH	DATE	BENZENE	TOLUENE	ETHYL-	M,P-	O-XYLENE	GRO	DRO	TPH		
					BENZENE	XYLENES						
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
South Exc SW	3'	01/03/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	30.8	30.8		
South Exc Floor	6'	01/03/05	<0.025	<0.025	<0.025	0.101	0.061	<10.0	14.5	14.5		
Middle Floor East	4'	01/03/05	0.109	1.49	2.66	3.76	1.68	37.2	34.6	71.8		
Middle Floor South	4'	01/03/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	29.6	29.6		
Middle Floor North	4'	01/03/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
North Exc Floor	14'	01/03/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
North Exc S/SW	6'	01/03/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
North Exc N/SW	6'	01/03/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
North P/L Floor	8'	01/03/05	<0.025	0.37	0.552	1.09	0.618	44.9	131	176		
North P/L N/SW	4'	01/03/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
North P/L S/SW	4'	01/03/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0		
North Floor	3'	01/03/05	<0.025	0.315	0.169	0.096	0.06	<10.0	<10.0	<10.0		
Stockpile North	6'	01/03/05	0.160	7.24	7.71	11.7	4.51	188	184	372		
Stockpile South	6'	01/03/05	0.041	1.3	2.1	2.89	1.21	81.2	98.5	180		
Stockpile East	6'	01/03/05	21.3	340	257	230	92.9	10400	9420	19800		
Stockpile West	6'	01/03/05	<0.025	0.133	0.132	0.711	0.426	110	232	342		
North P/L Floor 15'	15'	01/14/05	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	112	112		
NMOCD Criteria			10		TOTAL	BTEX 50				100		



Figure 1

Site Location Map

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Figure 2

Site Map





Figure 3

Digital Photos



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Lea to Dublin 8" Line Release Site Backfilled and Contoured to the Original Grade



Appendix A

New Mexico Office of the State Engineer Water Well Database Report



		AVERAGE	DEPTH OF	WATER	REPORT	08	3/29/200	5		
								(Depth	Water in	n Feet)
Bsn	Tws	Rng Sec	c Zone	Х	1	Y	Wells	Min	Max	Avg
L	20S	37E 28					2	40	40	40

Record Count: 2

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Appendix B

Environmental Laboratory of Texas Analytical Results

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Analytical Report

Prepared for:

Ken Dutton Basin Environmental Services P.O. Box 301 Lovington, NM 88260

Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Location: Lea County, NM

Lab Order Number: 5A05014

Report Date: 01/11/05

Basin Environmental ServicesProject:Lea to Dublin 8 inchFax: (505) 396-1429P.O. Box 301Project Number:EMS #2004-00223Reported:Lovington NM, 88260Project Manager:Kcn Dutton01/11/05 10:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South Exc SW	5A05014-01	Soil	01/03/05 08:15	01/05/05 13:25
South Exc Floor	5A05014-02	Soil	01/03/05 09:00	01/05/05 13:25
Middle Floor East	5A05014-03	Soil	01/03/05 09:15	01/05/05 13:25
Middle Floor South	5A05014-04	Soil	01/03/05 09:25	01/05/05 13:25
Middle Floor North	5A05014-05	Soil	01/03/05 09:18	01/05/05 13:25
North Exc Floor	5A05014-06	Soil	01/03/05 09:10	01/05/05 13:25
North Exc S/SW	5A05014-07	Soil	01/03/05 09:45	01/05/05 13:25
North Exc N/SW	5A05014-08	Soil	01/03/05 09:55	01/05/05 13:25
North P/L Floor	5A05014-09	Soil	01/03/05 10:08	01/05/05 13:25
North P/L N/SW	5A05014-10	Soil	01/03/05 10:20	01/05/05 13:25
North P/L S/SW	5A05014-11	Soil	01/03/05 10:35	01/05/05 13:25
North Floor	5A05014-12	Soil	01/03/05 10:05	01/05/05 13:25
Stockpile North	5A05014-13	Soil	01/03/05 08:30	01/05/05 13:25
Stockpile South	5A05014-14	Soil	01/03/05 08:40	01/05/05 13:25
Stockpilc East	5A05014-15	Soil	01/03/05 08:20	01/05/05 13:25
Stockpile West	5A05014-16	Soil	01/03/05 08:50	01/05/05 13:25

P.O. Box 301 Lovington NM, 88260	Project Number: EMS #2004-00223 Project Manager: Kcn Dutton							R 01/1	Reported: 01/11/05 10:08			
		O	rganics b	v GC								
		Environ	mental L	ab of Te	exas							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes		
South Exc SW (5A05014-01) Soil												
Benzene	ND	0.0250	mg/kg dry	25	EA51002	01/06/05	01/06/05	EPA 8021B	cdk			
Toluene	ND	0.0250	14		n	"		*	cdk			
Ethylbenzene	ND	0.0250		"		н	0		cdk			
Xylene (p/m)	ND	0.0250	"			W	"	D	cdk			
Xylene (o)	ND	0.0250	"	"	H	11	97	6	cdk			
Surrogate: a,a,a-Trifluorotoluene		97.3 %	80-1	20	"	n	H	"				
Surrogate: 4-Bromofluorobenzene		117%	80-1	20	"	"	"	"				
Gasoline Range Organics C6-C12	J [7.83]	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	JLH	J		
Diesel Range Organics >C12-C35	30.8	10.0	"	**	11			۳	ЛН			
Total Hydrocarbon C6-C35	30.8	10.0	•	*		10		"	ЛН			
Surrogate: 1-Chlorooctane		99.4 %	70-1	30	"	n	"	"				
Surrogate: 1-Chlorooctadecane		77.0 %	70-1	30	"	"	"	п				
South Exc Floor (5A05014-02) Soil												
Benzene	ND	0.0250	mg/kg dry	25	EA51002	01/06/05	01/10/05	EPA 8021B	edk			
Toluene	ND	0.0250	"	"		"			cđk			
Ethylbenzene	J [0.0124]	0.0250	**			•	*	"	cdk	J		
Xylene (p/m)	0.101	0.0250	*	"	•	H	**	"	cdk			
Xylene (0)	0.0610	0.0250	**	"	19	"	"	59	cdk			
Surrogate: a,a,a-Trifluorotoluene		109 %	80-1	20	"	"	"	n				
Surrogate: 4-Bromofluorobenzene		109 %	80-1	20	"	"	n	"				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	Л.H			
Diesel Range Organics >C12-C35	14.5	10.0				**	*	P	ЛLН			
Total Hydrocarbon C6-C35	14.5	10.0			"	"	**	"	ЛН			
Surrogate: 1-Chlorooctane		94.4 %	70-1	30	"	"	"	17				
Surrogate: 1-Chlorooctadecane		72.6 %	70-1	30	"	"	H	"				
Middle Floor East (5A05014-03) Soil												
Benzene	0.109	0.0250	mg/kg dry	25	EA51002	01/06/05	01/06/05	EPA 8021B	cdk			
Toluene	1.49	0.0250	"				"	"	cdk			
Ethylbenzene	2.66	0.0250	**		•	н	"	"	cdk			
Xylene (p/m)	3.76	0.0250		"	"	"	•	*	cdk			
Xylene (o)	1.68	0.0250	"	H	и		"	n	cdk			
Surrogate: a,a,a-Trifluorotoluene		121 %	80-1	20	"	H	"	"		S-04		
Surrogate: 4-Bromofluorobenzene		162 %	80-1	20	"	"	n	"		S-04		
Gasoline Range Organics C6-C12	37.2	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛLН			
Diesel Range Organics >C12-C35	34.6	10.0	••	"	"	**	"		Л.Н			

Project: Lea to Dublin 8 inch

Environmental Lab of Texas

Basin Environmental Services

The results in this report apply to the samples analyzed in accordance with the samples

received in the laboratory. This analytical report must be reproduced in its entirety,

with written approval of Environmental Lab of Texas.

Fax: (505) 396-1429

Basin Environmental Services P.O. Box 301	Basin Environmental Services Project: Lea to Dublin 8 inch P.O. Box 301 Project Number: EMS #2004-00223								Fax: (505) 396-1429 Reported:		
Lovington NM, 88260		Project M	anager: Kc	n Dutton				01/1	1/05 10:0	8	
		O	rganics b	y GC							
		Environ	mental L	ab of Te	exas						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Note	
Middle Floor East (5A05014-03) Soil						<u></u>					
Total Hydrocarbon C6-C35	71.8	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН		
Surrogate: 1-Chlorooctane		96.4 %	70-1	30	н	Ħ	"	it		• ·	
Surrogate: 1-Chlorooctadecane		72.0 %	70-1	30	"	п	"	"			
Middle Floor South (5A05014-04) Soil											
Benzene	ND	0.0250	mg/kg dry	25	EA51002	01/06/05	01/06/05	EPA 8021B	cđk		
Toluene	ND	0.0250	н		*	P	n	u	cdk		
Ethylbenzene	ND	0.0250	н	**	•	"	"	н	cdk		
Xylene (p/m)	ND	0.0250	*7	•	"	"	н		cdk		
Xylene (o)	ND	0.0250	*		"	"	"		cdk		
Surrogate: a,a,a-Trifluorotoluene		102 %	80-1	20	"	"	"	"			
Surrogate: 4-Bromofluorobenzene		118 %	80-1	20	"	"	"	"			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН		
Diesel Range Organics >C12-C35	29.6	10.0			"	"		"	ЛH		
Total Hydrocarbon C6-C35	29.6	10.0			-	"		۳	ЛH		
Surrogate: 1-Chlorooctane		110 %	70-1	30	н	"	"	"			
Surrogate: 1-Chlorooctadecane		86.0 %	70-1	30	"	"	"	"			
Middle Floor North (5A05014-05) Soil											
Benzene	ND	0.0250	mg/kg dry	25	EA51002	01/06/05	01/06/05	EPA 8021B	cdk		
Toluene	ND	0.0250			"		"	"	cdk		
Ethylbenzene	ND	0.0250		*	•			11	cdk		
Xylene (p/m)	ND	0.0250					*	"	cdk		
Xylene (o)	ND	0.0250	"			n	"	"	cdk		
Surrogate: a,a,a-Trifluorotoluene	· . · . ·	99.8 %	80-1	20	"		"	"			
Surrogate: 4-Bromofluorobenzene		117 %	80-1	20	"	"	"	"			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	I	EA50504	01/05/05	01/06/05	EPA 8015M	ЛH		
Diesel Range Organics >C12-C35	ND	10.0	"	**	•	"	۳	"	JLH		
Fotal Hydrocarbon C6-C35	ND	10.0	"	"	•	"	м	"	ЛLН		
Surrogate: 1-Chlorooctane		101 %	70-1	30	"	"	n	"			
Surrogate: 1-Chlorooctadecane		80.8 %	70-1	30	"	"	"	"			

P.O. Box 301 Lovington NM, 88260	x 301 Project Number: EMS #2004-00223 on NM, 88260 Project Manager: Kcn Dutton							Reported: 01/11/05 10:08			
L		O	rganics b	y GC							
		Environ	mental La	ab of Te	exas						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Note	
North Exc Floor (5A05014-06) Soil								· · · · <u>·</u> · · · · ·			
Benzene	ND	0.0250	mg/kg dry	25	EA51002	01/06/05	01/06/05	EPA 8021B	cdk		
Toluene	ND	0.0250		"		"	"	•	cdk		
Ethylbenzene	ND	0.0250	"	"		"		"	cdk		
Xylene (p/m)	ND	0.0250	"	,		м	H	•	cdk		
Xylene (o)	ND	0.0250	"	"				"	cdk		
Surrogate: a,a,a-Trifluorotoluene		95.7%	80-1	20	"	n	"	"			
Surrogate: 4-Bromofluorobenzene		115 %	80-1	20	"	"	"	"			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛH		
Diesel Range Organics >C12-C35	ND	10.0				"			ЛH		
Total Hydrocarbon C6-C35	ND	10.0	FT			"		"	ЛH		
Surrogate: 1-Chlorooctane		96.8 %	70-1	30	"	R	"	"			
Surrogate: 1-Chlorooctadecane		73.0 %	70-1	30	n	"	"	"			
North Exc S/SW (5A05014-07) Soil											
Benzene	ND	0.0250	mg/kg dry	25	EA51003	01/06/05	01/07/05	EPA 8021B	cdk		
Toluene	ND	0.0250	"			n		"	cdk		
Ethylbenzene	ND	0.0250		ю	Ħ	"	"	H	cdk		
Xviene (p/m)	ND	0.0250	*	"	н	"	"		cdk		
Xylene (o)	ND	0.0250					"	"	cdk		
Surrovate: a a a-Trifluorotoluene		94.8%	80-1	20	"			"			
Surrogate · 4-Bromolluorobenzene		110%	80-1	20	"	"	"	"			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg đrv	1	EA50504	01/05/05	01/06/05	EPA 8015M	πн		
Diesel Range Organics >C12-C35	ND	10.0	"	"		"	H	"	пн		
Total Hydrocarbon C6-C35	ND	10.0		"			"		лн		
Surrogate: L Chlorostana		05.0%	70-1	30		"		л	JL11		
Surrogate: 1-Chlorooctade cane		73 4 %	70-1	30	"	"	"	"			
		/3.470	70-1	50							
North Exc N/SW (5A05014-08) Soil		0.0050			E 4 61002	01/06/05	01/07/07				
Teluere	ND	0.0250	mg/kg ary	25	EA51003	01/06/05	01/07/05	EPA 8021B	cdk		
Ethulherzene	ND	0.0250							cdk		
	ND	0.0250			"	"		. "	cdk		
Ay iene (p/iii)	ND	0.0250					"		cdk		
	ND	0.0250					•	"	cdk	·.,	
Surrogate: a,a,a-Trifluorotoluene		85.6%	80-1.	20	"	"	"	"			
Surrogate: 4-Bromofluorobenzene		108 %	80-1.	20	"	H	"	и			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН		
Diesel Range Organics >C12-C35	ND	10.0			"	79	"	"	ЛН		
Total Hydrocarbon C6-C35	ND	10.0	"	н	1	"	н	"	ЛН		

Project: Lea to Dublin 8 inch

Environmental Lab of Texas

Basin Environmental Services

with written approval of Environmental Lab of Texas.

Fax: (505) 396-1429

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety,

Basin Environmental Services P.O. Box 301 Lovington NM 88260	Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Ken Dutton								05) 396-1 ceported: 1/05 10:0	429
					1105 10.0					
		O 1	rganics b	y GC						
		Environ	mental L	ab of Te	exas					
		Reporting	· , ···							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
North Exc N/SW (5A05014-08) Soil			· · · ·							
Surrogate: 1-Chlorooctane		99.4 %	70-1	30	EA50504	01/05/05	01/06/05	EPA 8015M		
Surrogate: 1-Chlorooctadecane		73.8 %	70- 1	30	n	"	"	"		
North P/L Floor (5A05014-09) Soil										
Benzene	ND	0.0250	mg/kg dry	25	EA51003	01/06/05	01/07/05	EPA 8021B	cdk	
Toluene	0.370	0.0250			u	91		"	cdk	
Ethylbenzene	0.552	0.0250		"	11		"	"	cdk	
Xylene (p/m)	1.09	0.0250			"	10		"	cdk	
Xylene (0)	0.618	0.0250			•	н	"	"	cdk	
Surrogate: a,a,a-Trifluorotoluene		99.8 %	80-1	20	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		121 %	80-1	20	*	"	"	"		S-04
Gasoline Range Organics C6-C12	44.9	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛH	
Diesel Range Organics >C12-C35	131	10.0			19		*	"	ЛH	
Total Hydrocarbon C6-C35	176	10.0		"	н			*	ЛН	
Surrogate: 1-Chlorooctane		108 %	70-1	30	W	"	"	n		
Surrogate: 1-Chlorooctadecane		82.0 %	70-1	30	"	"	"	"		
North P/L N/SW (5A05014-10) Soil										
Benzene	ND	0.0250	mg/kg dry	25	EA51003	01/06/05	01/10/05	EPA 8021B	cdk	
Toluene	ND	0.0250		11	"	"	*	"	cdk	
Ethylbenzene	ND	0.0250	"	"	"	"		"	cdk	
Xylene (p/m)	ND	0.0250	"		"	"	н	"	cdk	
Xylene (o)	ND	0.0250	м	"		"		"	cdk	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-1	20	н	"	"	"		
Surrogate: 4-Bromofluorobenzene		116 %	80-1	20	п	"	"	"		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	ł	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН	
Diesel Range Organics >C12-C35	ND	10.0			•	н	"	11	JLH	
Total Hydrocarbon C6-C35	ND	10.0		"		н	**	"	ЛH	
Surrogate: 1-Chlorooctane		95.0 %	70-1	30	"	"	"	"		
Surrogate: 1-Chlorooctadecane		73.2 %	70-1	30	"	n	11	H		

Basin Environmental Services P.O. Box 301 Lovington NM, 88260		Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton								
		O	rganics b	y GC						
		Environ	mental L	ab of Te	exas					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Note
North P/L S/SW (5A05014-11) Soil										
Benzene	ND	0.0250	mg/kg dry	25	EA51003	01/06/05	01/10/05	EPA 8021B	cdk	
Toluene	ND	0.0250	*		*	4	n	*	cdk	
Ethylbenzene	ND	0.0250	"	"	**		п	"	cdk	
Xylene (p/m)	ND	0.0250		*		"	M	"	cdk	
Xylene (o)	ND	0.0250	н	**		"	"	Π	cdk	
Surrogate: a,a,a-Trifluorotoluene	······································	109 %	80-1	20	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		113 %	80-1	20	"	"	"	"		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН	
Diesel Range Organics >C12-C35	ND	10.0		"	•		"	м	ЛН	
Total Hydrocarbon C6-C35	ND	10.0			н	15	"	н	ЛН	
Surrogate: 1-Chlorooctane	·····	95.0 %	70-1	30	"	"	#	n		
Surrogate: 1-Chlorooctadecane		75.8 %	70-1	30	Ħ	"	"	"		
North Floor (5A05014-12) Soil										
Benzene	J [0.0174]	0.0250	mg/kg dry	25	EA51003	01/06/05	01/07/05	EPA 8021B	cdk	
Toluene	0.315	0.0250	••	"				"	cdk	
Ethylbenzene	0.169	0.0250		-	•	N	"	"	cdk	
Xylene (p/m)	0.0960	0.0250		•	•	н	"	"	cdk	
Xylene (0)	0.0608	0.0250			"		"	n	cdk	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-1	20	"	"	н	"	·	
Surrogate: 4-Bromofluorobenzene		117 %	80-1	20	"	"	"	"		

Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН
Diesel Range Organics >C12-C35	ND	10.0		"		"		"	ЛН
Total Hydrocarbon C6-C35	ND	10.0	H	n	•	*	· ••	н	ЛН
Surrogate: 1-Chlorooctane		94.8 %	70-130		"	"	и	"	
Surrogate: 1-Chlorooctadecane		74.2 %	70-130		"	"	"	"	

Stockpile North (5A05014-13) Soil

Benzene	0.160	0.0250	mg/kg dry	25	EA51003	01/06/05	01/07/05	EPA 8021B	cdk	
Toluene	7.24	0.0250	и		**	"	**	"	cdk	
Ethylbenzene	7.71	0.0250	н	۲		'n	"	"	cdk	
Xylene (p/m)	11.7	0.0250	"			۳	n	н	cdk	
Xylene (0)	4.51	0.0250	11	"	"	"	"		cdk	
Surrogate: a,a,a-Trifluorotoluene		177 %	80-12	0	"	н	"	"	· · · · · ·	S-04
Surrogate: 4-Bromofluorobenzene		182 %	80-12	0	"	"	"	H		S-04
Gasoline Range Organics C6-C12	188	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН	
Diesel Range Organics >C12-C35	184	10.0	n	"	*		n	n	ЛН	

Environmental Lab of Texas

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Basin Environmental Services]	Project: Lea	to Dublin	8 inch			Fax: (505) 396-1429			
P.O. Box 301		Project N	umber: EM	(S #2004-00	0223			R	eported:		
Lovington NM, 88260		Project M	anager: Kcr	n Dutton				01/1	1/05 10:0	8	
		O	rganics b	y GC							
		Environ	mental L	ab of Te	exas						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes	
Stockpile North (5A05014-13) Soil											
Total Hydrocarbon C6-C35	372	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН		
Surrogate: 1-Chlorooctane		112 %	70-1	30	"	"	n	"			
Surrogate: 1-Chlorooctadecane		80.4 %	70-1	30	"	"	"	н			
Stockpile South (5A05014-14) Soil											
Benzene	0.0418	0.0250	mg/kg dry	25	EA51003	01/06/05	01/07/05	EPA 8021B	cdk		
Toluene	1.30	0.0250	11	"		59		"	cdk		
Ethylbenzene	2.10	0.0250	"	•		"	۳		cdk		
Xylene (p/m)	2.89	0.0250			-	"	*	*	cdk		
Xylene (0)	1.21	0.0250	"	"		"	14		cdk		
Surrogate: a,a,a-Trifluorotoluene		117 %	80-1	20	"	n	"	n			
Surrogate: 4-Bromofluorobenzene		132 %	80-1	20	"	"	"	"		S-04	
Gasoline Range Organics C6-C12	81.2	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН		
Diesel Range Organics >C12-C35	98.5	10.0	**	u	n	n	"	W	ЛН		
Total Hydrocarbon C6-C35	180	10.0	H		4	n	"	"	ЛН		
Surrogate: 1-Chlorooctane		109 %	70-1	30	n	H	"	"			
Surrogate: 1-Chlorooctadecane		80.4 %	70-1	30	"	"	H	"			
Stockpile East (5A05014-15) Soil											
Benzene	21.3	0.200	mg/kg dry	200	EA51003	01/06/05	01/07/05	EPA 8021B	cdk		
Toluene	340	0.200	**	"	H	*	47	۳	cdk		
Ethylbenzene	257	0.200	*	"	"	10	•	**	cdk		
Xylene (p/m)	230	0.200	11	*	۳	•	"		cdk		
Xylene (0)	92.9	0.200	n	r	"	"	*	41	cdk		
Surrogate: a,a,a-Trifluorotoluene		1060 %	80-1	20	"	"	"	"		S-04	
Surrogate: 4-Bromofluorobenzene		151 %	80-1	20	"	"		"		S-04	
Gasoline Range Organics C6-C12	10400	50.0	mg/kg dry	5	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН		
Diesel Range Organics >C12-C35	9420	50.0	"		"		-	**	ЛН		
Fotal Hydrocarbon C6-C35	19800	50.0	"	н	11	"	"	м	ЛН		
Surrogate: 1-Chlorooctane		49.6 %	70-1	30	"	"	Ħ	"		S-06	
Surrogate: 1-Chlorooctadecane		27.8 %	70-1	30	n	"	"	"		5-06	

Environmental Lab of Texas

Basin Environmental Services	Project: Lea to Du	ıblin 8 inch	Fax: (505) 396-1429
P.O. Box 301	Project Number: EMS #20	04-00223	Reported:
Lovington NM, 88260	Project Manager: Kcn Dutto	on	01/11/05 10:08

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Stockpile West (5A05014-16) Soil						· ·				
Benzene	ND	0.0250	mg/kg dry	25	EA51003	01/06/05	01/10/05	EPA 8021B	cdk	
Toluene	0.133	0.0250	P		17		"	**	cdk	
Ethylbenzene	0.132	0.0250	u	P	п	19	"	"	cdk	
Xylene (p/m)	0.711	0.0250	и	H	14		"		cdk	
Xylene (0)	0.426	0.0250	"	14	11	"	"	u	cdk	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-1	20	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		112 %	80-1	20	"	"	#	"		
Gasoline Range Organics C6-C12	110	10.0	mg/kg dry	1	EA50504	01/05/05	01/06/05	EPA 8015M	ЛН	
Diesel Range Organics >C12-C35	232	10.0	P	*	"		"	"	Л.Н	
Total Hydrocarbon C6-C35	342	10.0	H	"	п	*			ЛH	
Surrogate: 1-Chlorooctane		105 %	70-1.	30	"	n	"	п		
Surrogate: 1-Chlorooctadecane		80.6 %	70-1.	30	"	"	"	"		

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
South Exc SW (5A05014-01) Soil										
% Moisture	13.4		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
South Exc Floor (5A05014-02) Soil										
% Moisture	7.7		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
Middle Floor East (5A05014-03) Soil										
% Moisture	17.0		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
Middle Floor South (5A05014-04) Soil			- <u></u>							
% Moisture	14.4		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
Middle Floor North (5A05014-05) Soil										
% Moisture	12.9		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
North Exc Floor (5A05014-06) Soil										
% Moisture	7.6		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
North Exc S/SW (5A05014-07) Soil			- <u></u>							
% Moisture	21.0		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
North Exc N/SW (5A05014-08) Soil							<u>.</u>			
% Moisture	10.5		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
North P/L Floor (5A05014-09) Soil										
% Moisture	13.6		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
North P/L N/SW (5A05014-10) Soil										
% Moisture	5.3		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	

Environmental Lab of Texas

General Chemistry Parameters by EPA / Standard Methods

		Environn	nental I	ab of Te	exas					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
North P/L S/SW (5A05014-11) Soil										···-
% Moisture	4.0		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
North Floor (5A05014-12) Soil										
% Moisture	30.7		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
Stockpile North (5A05014-13) Soil										
% Moisture	11.1		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
Stockpile South (5A05014-14) Soil										
% Moisture	10.3		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
Stockpile East (5A05014-15) Soil			χ							
% Moisture	8.6		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	
Stockpile West (5A05014-16) Soil										
% Moisture	0.9		%	1	EA50511	01/05/05	01/06/05	% calculation	LC	<u> </u>

Basin Environmental Services P.O. Box 301 Lovington NM, 88260

Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton

01/11/05 10:08

Organics by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA50504 - Solvent Extraction (GC)				Analyst:	Л.Н					
Blank (EA50504-BLK1)				Prepared &	Analyzed:	01/05/05				
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	38.5		mg/kg	50.0		77.0	70-130			
Surrogate: 1-Chlorooctadecane	36.6		"	50.0		73.2	70-130			
Blank (EA50504-BLK2)				Prepared: (01/05/05 Ar	nalyzed: 01	/06/05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	h							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	39.3		mg/kg	50.0		78.6	70-130			• • • • • •
Surrogate: 1-Chlorooctadecane	37.6		"	50.0		75.2	70-130			
LCS (EA50504-BS1)				Prepared &	Analyzed:	01/05/05				
Gasoline Range Organics C6-C12	483	10.0	mg/kg wet	500		96.6	75-125			
Diesel Range Organics >C12-C35	481	10.0	"	500		96.2	75-125			
Total Hydrocarbon C6-C35	964	10.0	"	1000		96.4	75-125			
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.0	70-130			
Surrogate: 1-Chlorooctadecane	37.5		"	50.0		75.0	70-130			
LCS (EA50504-BS2)				Prepared: (01/05/05 Ar	nalyzed: 01	/06/05			
Gasoline Range Organics C6-C12	492	10.0	mg/kg wet	500		98.4	75-125			
Diesel Range Organics >C12-C35	488	10.0		500		97.6	75-125			
Total Hydrocarbon C6-C35	980	10.0	"	1000		98.0	75-125			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	70-130			
Surrogate: 1-Chlorooctadecane	39.7		"	50.0		79.4	70-130			
Calibration Check (EA50504-CCV1)				Prepared &	Analyzed:	01/05/05				
Gasoline Range Organics C6-C12	540		mg/kg	500		108	80-120			
Diesel Range Organics >C12-C35	560		**	500		112	80-120			
Total Hydrocarbon C6-C35	1100		**	1000		110	80-120			
Surrogate: 1-Chlorooctane	55.5		"	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	37.6		"	50.0		75.2	70-130			

Basin Environmental Services			Fax: (505) 396-1429									
P.O. Box 301		Project N	umber: EM	IS #2004-00	223				Reported:			
Lovington NM, 88260		Project M	anager: Kci	n Dutton					01/11/0	5 10:08		
	O	rganics by	y GC - Q	uality Co	ontrol							
		Environ	mental L	ab of Te	xas							
A 1. 4.	Dacult	Reporting	Unite	Spike	Source	%DEC	%REC	חמפ	RPD Limit	Notes		
Anaiyie	Kesuit			Level		70KEC	Landis			Notes		
Batch EA50504 - Solvent Extraction (GC)				Analyst:	ЛН							
Calibration Check (EA50504-CCV2)	Pn		Prepared: (01/05/05 A	nalyzed: 01	/06/05						
Gasoline Range Organics C6-C12	568		mg/kg	500		114	80-120					
Diesel Range Organics >C12-C35	575		"	500		115	80-120					
Total Hydrocarbon C6-C35	1140		"	1000		114	80-120					
Surrogate: 1-Chlorooctane	59.5		"	50.0		119	70-130					
Surrogate: 1-Chlorooctadecane	38.9		"	50.0		77.8	70-130					
Matrix Spike (EA50504-MS1)	Source: 5A04009-01 Prepared & Analyzed: 01/05/05											
Gasoline Range Organics C6-C12	496	10.0	mg/kg dry	546	11.5	88.7	75-125					
Diesel Range Organics >C12-C35	606	10.0		546	66.5	98.8	75-125					
Total Hydrocarbon C6-C35	1100	10.0	"	1090	78.0	93.8	75-125					
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	70-130					
Surrogate: 1-Chlorooctadecane	39.5		"	50.0		79.0	70-130					
Matrix Spike (EA50504-MS2)	Sou	rce: 5A0501	4-08	Prepared: (01/05/05 A	nalyzed: 01	/06/05					
Gasoline Range Organics C6-C12	618	10.0	mg/kg dry	559	ND	111	75-125					
Diesel Range Organics >C12-C35	644	10.0	"	559	ND	115	75-125					
Total Hydrocarbon C6-C35	1260	10.0	•	1120	ND	112	75-125					
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	70-130					
Surrogate: 1-Chlorooctadecane	40.7		*	50.0		81.4	70-130					
Matrix Spike Dup (EA50504-MSD1)	Sou	rce: 5A0400	9-01	Prepared: (01/05/05 A	nalyzed: 01	/06/05					
Gasoline Range Organics C6-C12	497	10.0	mg/kg dry	546	11.5	88.9	75-125	0.201	20			
Diesel Range Organics >C12-C35	650	10.0	"	546	66.5	107	75-125	7.01	20			
Total Hydrocarbon C6-C35	1150	10.0	"	1090	78.0	98.3	75-125	4.44	20			
Surrogate: 1-Chlorooctane	56.8		mg/kg	50.0		114	70-130		· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	46.5		"	50.0		<i>93</i> .0	70-130					
Matrix Spike Dup (EA50504-MSD2)	Sou	rce: 5A05014	1-08	Prepared: (01/05/05 A	nalyzed: 01	/06/05					
Gasoline Range Organics C6-C12	643	10.0	mg/kg dry	559	ND	115	75-125	3.97	20			
Diesel Range Organics >C12-C35	644	10.0	*	559	ND	115	75-125	0.00	20			
Total Hydrocarbon C6-C35	1290	10.0	"	1120	ND	115	75-125	2.35	20			
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	70-130		·····			
Surrogate: 1-Chlorooctadecane	41.1		"	50.0		82.2	70-130					

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 12 of 17

Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton

01/11/05 10:08

Organics by GC - Quality Control

Environmental	Lab	of	Texas
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA51002 - EPA 5030C (CC)				Analyst:	edk					
Block (FA51002 BI K1)	· · · · · · · · · · · · · · · · · · ·			Prenared &	Analyzad	01/06/05				
Benzene	ND	0.0250	mg/kg wet	Tiepatea d	- Allaryzeu.	01/00/05				
Toluene	ND	0.0250	"							
Ethvihenzene	ND	0.0250	n							
Xylene (p/m)	ND	0.0250	n							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	90.1		ug/kg	100		90.1	80-120			
Surrogate: 4-Bromofluorobenzene	119		H	100		119	80-120			
LCS (EA51002-BS1)				Prepared &	Analyzed:	01/06/05				
Benzene	87.5		ug/kg	100		87.5	80-120		· · · · · · · · · · · · · · · · · · ·	
Toluene	87.4		"	100		87.4	80-120			
Ethylbenzene	107		м	100		107	80-120			
Xylene (p/m)	239		н	200		120	80-120			
Xylene (o)	119		**	100		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	101		"	100		101	80-120			
Surrogate: 4-Bromofluorobenzene	117		n	100		117	80-120			
Calibration Check (EA51002-CCV1)				Prepared: 0	01/06/05 A	nalyzed: 01	/09/05			
Benzene	99.9		ug/kg	100		99.9	80-120			
Toluene	104		"	100		104	80-120			
Ethylbenzene	99.4		"	100		99.4	80-120			
Xylene (p/m)	215		"	200		108	80-120			
Xylene (o)	101		"	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120		· · · · · · · · · · · · · · · · · · ·	
Surrogate: 4-Bromofluorobenzene	115		"	100		115	80-120			
Matrix Spike (EA51002-MS1)	Sou	rce: 5A05014	1-06	Prepared &	Analyzed:	01/06/05				
Benzene	90.4		ug/kg	100	ND	90.4	80-120			
Toluene	96.2		"	100	ND	96.2	80-120			
Ethylbenzene	109		*	100	ND	109	80-120			
Xylene (p/m)	239			200	ND	120	80-120			
Xylene (o)	118		14	100	ND	118	80-120			
Surrogate: a,a,a-Trifluorotoluene	114		"	100		114	80-120			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	80-120			

Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton

Fax: (505) 396-1429 Reported:

01/11/05 10:08

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA51002 - EPA 5030C (GC)				Analyst:	cdk					
Matrix Spike Dup (EA51002-MSD1)	Sour	ce: 5A05014	1-06	Prepared &	Analyzed:	01/06/05				
Benzene	93.2		ug/kg	100	ND	93.2	80-120	3.05	20	
Toluene	101		n	100	ND	101	80-120	4.87	20	
Ethylbenzene	113		n	100	ND	113	80-120	3.60	20	
Xylene (p/m)	239		15	200	ND	120	80-120	0.00	20	
Xylene (o)	113		"	100	ND	113	80-120	4.33	20	
Surrogate: a,a,a-Trifluorotoluene	118		N	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			
Batch EA51003 - EPA 5030C (GC)				Analyst:	cdk					
Blank (EA51003-BLK1)				Prepared &	Analyzed:	01/06/05				
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	84.8		ug/kg	100		84.8	80-120			
Surrogate: 4-Bromofluorobenzene	97.7		"	100		97.7	80-120			
LCS (EA51003-BS1)				Prepared &	Analyzed:	01/06/05				
Benzene	91.3	·····	ug/kg	100		91.3	80-120			
Toluene	95.5		**	100		95.5	80-120			
Ethylbenzene	104		*	100		104	80-120			
Xylene (p/m)	231		"	200		116	80-120			
Xylene (o)	112			100		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	115		11	100		115	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton

01/11/05 10:08

Organics by GC - Quality Control

Environmental Lab of Texas

l		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA51003 - EPA 5030C (GC)				Analyst:	cdk				. <u></u>	
Calibration Check (EA51003-CCV1)				Prepared: 0	1/06/05 Ar	nalyzed: 01	/09/05			
Benzene	99.9		ug/kg	100		99.9	80-120			
Toluene	104		"	100		104	80-120			
Ethylbenzene	99.4		"	100		99.4	80-120			
Xylene (p/m)	215		"	200		108	80-120			
Xylene (0)	101		"	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	115		".	100		115	80-120			
Matrix Spike (EA51003-MS1)	Sour	rce: 5A05015-4	08	Prepared: 0	1/06/05 Ar	nalyzed: 01	/09/05			
Benzene	101		ug/kg	100	ND	101	80-120			
Toluene	106		"	100	ND	106	80-120			
Ethylbenzene	106		*	100	ND	106	80-120			
Xylene (p/m)	232		۳	200	ND	116	80-120			
Xylene (o)	105		ų	100	ND	105	80-120			
Surrogate: a,a,a-Trifluorotoluene	115		"	100		115	80-120			
Surrogate: 4-Bromofluorobenzene	110		"	100		110	80-120			
Matrix Spike Dup (EA51003-MSD1)	Sour	-ce: 5A05015-(08	Prepared: 0	1/06/05 An	halyzed: 01	/09/05			
Benzene	99.0		ug/kg	100	ND	99.0	80-120	2.00	20	· · · · · · · · · · · · · · · · · · ·
Toluene	104			100	ND	104	80-120	1.90	20	
Ethylbenzene	107		"	100	ND	107	80-120	0.939	20	
Xylene (p/m)	236			200	ND	118	80-120	1.71	20	
Xylene (o)	110		"	100	ND	110	80-120	4.65	20	
Surrogate: a,a,a-Trifluorotoluene	115		"	100		115	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Environmental Lab of Texas

Basin Environmental Services P.O. Box 301 Lovington NM, 88260

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 EA50511 - General Preparation (Prep)				Analyst:	LC					
Blank (EA50511-BLK1)				Prepared: (01/05/05 A	nalyzed: 01	/06/05			
% Moisture	0.001		%							
Duplicate (EA50511-DUP1)	Sou	rce: 5A04009-	01	Prepared: (01/05/05 A	nalyzed: 01	/06/05			
% Moisture	8.9		%		8.4			5.78	20	

Environmental Lab of Texas

Basin Envir P.O. Box 30 Lovington I	ronmental Services 01 NM, 88260	Project: Project Number: Project Manager:	Project: Lea to Dublin 8 inch Project Number: EMS #2004-00223 Project Manager: Kcn Dutton					
		Notes and De	finitions					
S- 06	The recovery of this surrogate is outs matrix interference's.	ide control limits due to sample dil	ution required from high analyte concentration and/or					
S-04	The surrogate recovery for this samp	le is outside of established control	limits due to a sample matrix effect.					
ł	Detected but below the Reporting Li	nit; therefore, result is an estimated	d concentration (CLP J-Flag).					
DEŤ	Analyte DETECTED							
ND	Analyte NOT DETECTED at or above th	e reporting limit						
NR	Not Reported							
dry	Sample results reported on a dry weight b	asis						
RPD	Relative Percent Difference							
LCS	Laboratory Control Spike							
MS	Matrix Spike							
Dup	Duplicate							

Report Approved By:

Raland K hout

1/11/05

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.

Date:

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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

Client	Basin Erv	. Svc-	

Date/Time: 01-05-05@ 1325

JMM

Order #: 54 050 14

Initials:

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-15 C
Shipping container/cooler in good condition?	Tes	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?	(Res)	No	
Chain of Custody signed when relinquished and received?	(Tes)	No	
Chain of custody agrees with sample label(s)	(Tes	No	
Container labels legible and intact?	Res	No	
Sample Matrix and properties same as on chain of custody?	Ree	No	
Samples in proper container/bottle?	805)	No	
Samples properly preserved?	Res	No	
Sample bottles intact?	(Tes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	res	No	
Sufficient sample amount for indicated test?	Cres	No	
All samples received within sufficient hold time?	(res	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

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Contact Person: Regarding:	Date/Time:	Contacted by:	

Corrective Action Taken:			
			
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Analytical Report

Prepared for:

Camille Reynolds Plains All American EH & S 1301 S. County Road 1150 Midland, TX 79706-4476

Project: Lea to Dublin 8 inch Project Number: 2004-00223 Location: Lea County, NM

Lab Order Number: 5A18004

Report Date: 01/19/05

Plains All American EH & S	Project:	Lea to Dublin 8 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	2004-00223	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	01/19/05 17:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North P/L Floor, 15'	5A18004-01	Soil	01/14/05 13:05	01/18/05 10:00

Plains All American EH & S	Project: Lea to Dublin 8 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2004-00223	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	01/19/05 17:00

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North P/L Floor, 15' (5A18004-01) Soil		· · · · · · · · · · · · · · · · · · ·				· · · · · · · ·		••••	
Benzene	ND	0.0250	mg/kg dry	25	EA51806	01/18/05	01/19/05	EPA 8021B	
Toluene	ND	0.0250	*	11	"		"		
Ethylbenzene	ND	0.0250	"	"		"	"	•	
Xylene (p/m)	ND	0.0250	*	"		"	"		
Xylene (o)	ND	0.0250	*			"			
Surrogate: a,a,a-Trifluorotoluene		115 %	80-12	20	"	n	н	"	
Surrogate: 4-Bromofluorobenzene		116 %	80-12	20	"	~	*	п	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA51808	01/18/05	01/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	112	10.0	11		н			"	
Total Hydrocarbon C6-C35	112	10.0		н	*		n	"	
Surrogate: 1-Chlorooctane		98.8 %	70-1.	30	"	"	"	11	
Surrogate: 1-Chlorooctadecane		109 %	70-1	30	N	"	"	"	

Environmental Lab of Texas

Plains All American EH & S	Project: Lea to Dublin 8 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2004-00223	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	01/19/05 17:00

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North P/L Floor, 15' (5A18004-01) Soil									
% Moisture	3.7		%	1	EA51807	01/18/05	01/19/05	% calculation	

Environmental Lab of Texas

Plains All American EH & S	Project:	Lea to Dublin 8 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	2004-00223	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	01/19/05 17:00

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA51806 - EPA 5030C (GC)										
Blank (EA51806-BLK1)				Prepared &	Analyzed:	01/17/05				
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	u							
Surrogate: a,a,a-Trifluorotoluene	112		ug/kg	100	·	112	80-120			
Surrogate: 4-Bromofluorobenzene	113		"	100		113	80-120			
LCS (EA51806-BS1)				Prepared &	Analyzed:	01/17/05		<u>.</u>		
Benzene	108		ug/kg	100		108	80-120			
Toluene	106		57	100		106	80-120			
Ethylbenzene	101			100		101	80-120			
Xylene (p/m)	220			200		110	80-120			
Xylene (o)	103			100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	119		"	100		119	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			
Calibration Check (EA51806-CCV1)				Prepared &	Analyzed:	01/17/05				
Benzene	106		ug/kg	100		106	80-120			
Toluene	105			100		105	80-120			
Ethylbenzene	102			100		102	80-120			
Xylene (p/m)	217			200		108	80-120			
Xylene (o)	103		n	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			
Matrix Spike (EA51806-MS1)	Sou	rce: 5A14015	-06	Prepared &	Analyzed:	01/17/05				
Benzene	111		ug/kg	100	ND	111	80-120			
Toluene	112		**	100	ND	112	80-120			
Ethylbenzene	108			100	ND	108	80-120			
Xylene (p/m)	233			200	ND	116	80-120			
Xylene (o)	106		P	100	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	113		"	100		113	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

Plains All American EH & S		1	Project: Lea	to Dublin 8	inch				rax: (432)	087-4914
1301 S. County Road 1150		Project N	umber: 200	4-00223					Repo	rted:
Midland TX, 79706-4476		Project M	anager: Ca	nille Reynol	ds				01/19/0	5 17:00
	Or	ganics by	y GC - Q	uality Co	ontrol					
		Environ	mental L	ab of Te	kas					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA51806 - EPA 5030C (GC)										
Matrix Spike Dup (EA51806-MSD1)	Sour	ce: 5A1401:	5-06	Prepared &	Analyzed:	01/17/05				
Benzene	109		ug/kg	100	ND	109	80-120	1.82	20	
Toluene	110		"	100	ND	110	80-120	1.80	20	
Ethylbenzene	112		"	100	ND	112	80-120	3.64	20	
Xylene (p/m)	233		"	200	ND	116	80-120	0.00	20	
Xylene (o)	112		п	100	ND	112	80-120	5.50	20	
Surrogate: a,a,a-Trifluorotoluene	116		H	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			
Batch EA51808 - Solvent Extraction (GC)									
Blank (EA51808-BLK1)				Prepared &	Analyzed:	01/18/05				
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	37.4		mg/kg	50.0		74.8	70-130			
Surrogate: 1-Chlorooctadecane	37.0		"	50.0		74.0	70-130			
Blank (EA51808-BLK2)				Prepared: ()1/18/05 A	nalyzed: 01	/19/05			
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	n							
Surrogate: 1-Chlorooctane	41.6		mg/kg	50.0		83.2	70-130			
Surrogate: 1-Chlorooctadecane	37.1		"	50.0		74.2	70-130			
LCS (EA51808-BS1)				Prepared &	Analyzed:	01/18/05				
Gasoline Range Organics C6-C12	441	10.0	mg/kg wet	500		88.2	75-125			
Diesel Range Organics >C12-C35	470	10.0		500		94.0	75-125			
Total Hydrocarbon C6-C35	911	10.0		1000		91.1	75-125			
Surrogate: 1-Chlorooctane	41.2		mg/kg	50.0		82.4	70-130			
Surrovate: 1-Chlorooctadecane	35.9		"	50.0		71.8	70-130			

Plains All American EH & S		I	Project: Lea	a to Dublin 8	3 inch				Fax: (432)	687-4914
1301 S. County Road 1150		Project N	umber: 200	04-00223					Repo	rted:
Midland TX, 79706-4476		Project M	anager: Ca	mille Reyno	lds				01/19/0	5 17:00
	0	rganics by	y GC - Q	uality C	ontrol					
		Environ	mental L	ab of Te	xas					
Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Detab EASI009 Solvent Extraction (CC)										
Baich EAS1808 - Solvent Extraction (GC)				Dependent	01/19/05 A	nolumodi 01	/10/05			
Carolino Pango Organice C6.C12	401	10.0	ma/ka wet	son	01/16/05 A	08.2	75,125	· ·		
	471	10.0	" "	500		20.2	75_125			
Total Hydrocarbon C6-C35	995	10.0		1000		99.5	75-125			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	43.7		"	50.0		87.4	70-130			
Calibration Check (EA51808-CCV1)				Prepared &	Analyzed:	01/18/05				
Gasoline Range Organics C6-C12	468		mg/kg	500		93.6	80-120			
Diesel Range Organics >C12-C35	525		n	500		105	80-120			
Total Hydrocarbon C6-C35	993		"	1000		99.3	80-120			
Surrogate: 1-Chlorooctane	52.8		"	50.0		106	70-130		······	
Surrogate: 1-Chlorooctadecane	48.1		"	50.0		96.2	70-130			
Calibration Check (EA51808-CCV2)				Prepared:	01/18/05 A	nalyzed: 01	/19/05			
Gasoline Range Organics C6-C12	457		mg/kg	500		91.4	80-120			
Diesel Range Organics >C12-C35	514		Ħ	500		103	80-120			
Total Hydrocarbon C6-C35	971		"	1000		97.1	80-120			
Surrogate: 1-Chlorooctane	49.4		n	50.0		98.8	70-130			
Surrogate: 1-Chlorooctadecane	49.2		n	50.0		98.4	70-130			
Matrix Spike (EA51808-MS1)	Sou	irce: 5A1701(5-01	Prepared 8	2 Analyzed:	01/18/05				
Gasoline Range Organics C6-C12	467	10.0	mg/kg dry	506	ND	92.3	75-125			
Diesel Range Organics >C12-C35	524	10.0	**	506	ND	104	75-125			
Total Hydrocarbon C6-C35	991	10.0		1010	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	60.0		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	62.3		"	50.0		125	70-130			
Matrix Spike (EA51808-MS2)	Sou	rce: 5A18000	5-02	Prepared:	01/18/05 A	nalyzed: 01	/19/05			
Gasoline Range Organics C6-C12	484	10.0	mg/kg dry	525	ND	92.2	75-125			
Diesel Range Organics >C12-C35	498	10.0	۳	525	ND	94.9	75-125			
Total Hydrocarbon C6-C35	982	10.0	"	1050	ND	93.5	75-125			
Surrogate: 1-Chlorooctane	53.9		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

Plains All American EH & S	Project: Lea to Dublin 8 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2004-00223	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	01/19/05 17:00

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
						· · · · · ·				

Batch EA51808 - Solvent Extraction (GC)

Matrix Spike Dup (EA51808-MSD1)	Sourc	e: 5A17016	-01	Prepared &	Analyzed:	01/18/05			
Gasoline Range Organics C6-C12	494	10.0	mg/kg dry	506	ND	97.6	75-125	5.62	20
Diesel Range Organics >C12-C35	549	10.0	*	506	ND	108	75-125	4.66	20
Total Hydrocarbon C6-C35	1040	10.0	••	1010	ND	103	75-125	4.83	20
Surrogate: 1-Chlorooctane	58.9		mg/kg	50.0	····.	118	70-130		•••
Surrogate: 1-Chlorooctadecane	64.0		"	50.0		128	70-130		
Matrix Spike Dup (EA51808-MSD2)	Sourc	e: 5A18006	-02	Prepared: 0)1/18/05 A	nalyzed: 0	1/19/05		·
Gasoline Range Organics C6-C12	499	10.0	mg/kg dry	525	ND	95.0	75-125	3.05	20
Diesel Range Organics >C12-C35	522	10.0		525	ND	99.4	75-125	4.71	20
Total Hydrocarbon C6-C35	1020	10.0	**	1050	ND	97.1	75-125	3.80	20
Surrogate: 1-Chlorooctane	57.6		mg/kg	50.0	••	115	70-130		
Surrogate: 1-Chlorooctadecane	53.9		"	50.0		108	70-130		

Environmental Lab of Texas

Plains All American EH & S	Project: L	ea to Dublin 8 inch	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 20	004-00223	Reported:
Midland TX, 79706-4476	Project Manager: C	Camille Reynolds	01/19/05 17:00

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 EA51807 - General Preparation	ı (Prep)								<u>.</u>	
Blank (EA51807-BLK1)				Prepared: 0)1/18/05 A	nalyzed: 01	/19/05			
% Moisture	0.001		%							
Duplicate (EA51807-DUP1)	Sour	ce: 5A17017-	01	Prepared: 0)1/18/05 Au	nalyzed: 01	/19/05			
% Moisture	4.0		%		3.9			2.53	20	

Environmental Lab of Texas

Plains Al 1301 S. C Midland	l American EH & S County Road 1150 TX, 79706-4476	Project: Project Number: Project Manager:	Lea to Dublin 8 inch 2004-00223 Camille Reynolds	Fax: (432) 687-4914 Reported: 01/19/05 17:00
<u></u>		Notes and De	finitions	
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 Kituts

Date: 1/19/2005

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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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

Client:	Basin	Environmental
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Date/Time: 01-18-05 @ 1000

Order #: 5A18004

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(res)	No	-0.5 C
Shipping container/cooler in good condition?	Yes	No	N/A
Custody Seals intact on shipping container/cooler?	Yes	No	Not present N/A
Custody Seals intact on sample bottles?	Yes	No	Not present,
Chain of custody present?	(Tes)	No	
Sample Instructions complete on Chain of Custody?	(res)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	Ves	No	
Container labels legible and intact?	(es)	No	
Sample Matrix and properties same as on chain of custody?	(es)	No	
Samples in proper container/bottle?	(es)	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?	Neg	No	
Sufficient sample amount for indicated test?	(es)	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

Variance Documentation: _____Date/Time: ______Contacted by: ______

Contact Person:	
Regarding:	

Corrective Action Taken:



NMOCD Request Approval for Backfill of Excavation

Basin Environmental Service Technologies, LLC



P. O. Box 301 Lovington, New Mexico 88260 Induttory basiness.com Office: (505) 396-2378 Fax: (505) 396-1429



16 May 2005

Mr. Larry Johnson New Mexico Oil Conservation Division Hobbs District 1 1625 N. French Drive Hobbs, New Mexico 88240



Re: Request Approval for Backfill of Excavation Plains Marketing, L. P. (C-141, dated 07 Dec 04) Lea to Dublin 8" Unit G (SW ¼, NE ¼) Section 28, Township 20 South, Range 37 East Lea County, New Mexico

Dear Mr. Johnson:

Basin Environmental Services (Basin), on behalf of Plains Marketing, L. P. (Plains), is submitting this request for approval to backfill the Lea to Dublin 8" remediation site at the above referenced location. As indicated on the attached Soil Chemistry Table and Sampling Location Site Map, confirmation soil samples are below New Mexico Oil Conservation Division (NMOCD) standards (<100 ppm) for the site, with the exception of the North P/L Floor, 15 feet sample which is 112 mg/kg TPH concentration. Based on a previous discussion of this remediation site with yourself, you stated that a TPH concentration of 112 mg/kg would be acceptable for closure based on the reduction from a TPH concentration of 176 mg/kg to 112 mg/kg. Plains and Millard Deck Estates have reached an agreement to purchase backfill from the Estate. The impacted soil will be transported to the Plains Marketing Lea Station Land Farm. A C-138 will be submitted once your approval is received.

Basin responded and clamped the pipeline release on 04 Dec 04, located on the Lea to Dublin 8" Pipeline. The impacted soils were excavated and stockpiled on a poly liner. As reported on the C-141, dated 07 Dec 04, approximately 910 barrels of crude oil were released and 860 barrels recovered. Excavation of the visually stained area was accomplished and confirmation soil samples were collected for laboratory analysis. Initial soil sampling results reported concentrations of total petroleum hydrocarbons (THP) and benzene, toluene, ethyl-benzene, and xylenes (BTEX) below NMOCD

with the exception of the North P/L Floor, 15 feet sample, which is 112 mg/kg. Backfilling of the site will begin once your approval is received.

Upon completion of the backfilling activities a Site Investigation Plan/Closure Request will be submitted to the Hobbs District 1, NMOCD office.

Should you have any questions or comments, please contact me at (505) 441-2124.

Sincerely,

Ken Dutton Basin Environmental Services

Enclosures: Site Map, Sampling Locations Soil Chemistry Table NMOCD C-141 Appendix D

NMOCD C-141

	obbs, NM 88240	9310	St Energy Mi	ate of inerals	New Mexi and Natura	iĉo 1 Resources			Revis	Form C-141 sed October 10, 2003
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					OPERA	TOR		x Initia	al Report	Final Repo
la e of Compar	ny Plains Mar	keting, LP			Contact Can	nille Reynolds				
ddress 5805 Ea	st Hwy. 80, N	lidland, T	x 79706		Telephone N	No. 505-441-09	65			
acility Name Le	ea to Dublin				Facility Typ	e 8"Steel Pipel	ine			
unace Owner N	Aillard Deck	Estate	Mineral	Owner				Lease N	io.	
-			LOC	ATIO	N OF REI	LEASE				
G 2	tion Townsl 8 20	nip Range S 371	Feet from the	North	/South Line	Feet from the	East/V	Vest Line	County Lea	
	La	titude_32°	32'46.8"		_ Longitude	<u>103° 15' 19.5'</u>	··		-	
			NAT	FURE	OF REL	EASE				
ypof Release Ci ou e of Release	rude Oil 8" Steel Pipeli	ne			Volume of Date and H	Release 910 ban lour of Occurrent	rels ce	Volume I Date and 12-4-04(Recovered 860 Hour of Disco	D barrels overy
Vas Immediate No	otice Given?			· ·	If YES, To	Whom?				
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