Basin Environmental Service Technologies, LLC

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



PRELIMINARY SITE INVESTIGATION REPORT and REMEDIATION/CLOSURE PLAN

PLAINS MARKETING, L.P. (231735) North Hobbs 8-Inch Site Lea County, New Mexico Plains SRS # 2006-059 UNIT M (SW/SW), Section 29, Township 18S, Range 38E Latitude 32°, 42', 40.2" North, Longitude 103°, 10', 41.7" West

Prepared For:

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



PAJB

Prepared By: Basin Environmental Service Technologies, LLC P. O. Box 301 Lovington, New Mexico 88260

25 April 2006

Ken Dutton

Basin Environmental Service Technologies, LLC

incident - n PAC 0605428056 application - pPA C0605428301

TABLE OF CONTENTS

Introduction	1
Summary of Field Activities	1
New Mexico Oil Conservation Division (NMOCD) Soil Classification	3
Distribution of Hydrocarbons in the Unsaturated Zone	3
Distribution of Hydrocarbons in the Saturated Zone	5
Recommendations for Remediation/Closure	5
QA/QC Procedures Soil Sampling Groundwater Sampling Decontamination of Equipment Laboratory Protocol	6 6 7 7
Limitations	7
Distribution	8

Tables

Table 1:	Soil Chemistry Table (Soil Borings & Excavation Results)
Table 2:	Groundwater Chemistry Table

Figures

- Figure 1: Site Location Map
- Figure 2: Excavation Site Map
- Figure 3: Excavation Site Map Final Soil Sampling Locations
- Figure 4: Excavation Site Map Soil Boring & Monitoring Well Locations
- Figure 5: Installation Diagram of 40-mil Poly Liner
- Figure 6: Digital Photos

Appendices

- Appendix A: New Mexico Office of the State Engineer Water Well Database Report
- Appendix B: Environmental Laboratory of Texas Analytical Results
- Appendix C: Soil Boring Logs
- Appendix D: NMOCD C-141

INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), responded to a pipeline release for Plains Marketing, L.P. (Plains), located on the North Hobbs 8-Inch Pipeline on 10 February 2006. Plains operations personnel contained and clamped the North Hobbs 8-Inch Pipeline on 09 February 2006 and the impacted soil was excavated and stockpiled on a 6-ml poly-liner adjacent to the excavation. The North Hobbs 8-Inch Pipeline right-of-way is located on land owned by R, M and S Enterprises.

This site is located in Unit M (SW/SW), Section 29, Township 18 South, Range 38 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32°, 42', 40.2' North and the site longitude is 103°, 10', 41.7' West. The site is characterized by a right-of-way for the pipeline in a pasture adjacent to commercial businesses to the east and oil production facilities to the north and west. The initial visible surface stained area includes the release point covering an area approximately 20 feet long by 20 feet wide. An estimated 10 barrels of crude oil were released from the North Hobbs 8-Inch Pipeline and 0 barrels were recovered.

An emergency one-call was initiated 09 February 2006 and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Ms Pat Caperton, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District I was verbally notified of the release on 09 February 2006. A NMOCD C-141 was prepared and delivered to Ms Pat Caperton on 14 February 2006 (see Appendix D, NMOCD C-141).

SUMMARY OF FIELD ACTIVITIES

Basin mobilized to the pipeline release site to initiate soil remediation activities on 10 February 2006, located on the North Hobbs 8-Inch Pipeline after Plains operations personnel clamped and secured the pipeline release on 09 February 2006. After the crude oil release had been contained utilizing a pipeline repair clamp, excavation of the impacted soil was accomplished (see Figure 2, Excavation Site Map). The North Hobbs 8-Inch Pipeline was de-oiled and removed from the excavated area under the direction of Plains operations personnel following the crude oil release. The release point and visually stained area was excavated to approximately 110 feet long by 75 feet wide and 18 feet below ground surface (bgs). An estimated 3500 cubic yards of excavated soils were placed on a 6-ml poly liner adjacent to the excavation for future remedial action. Approximately 2500 cubic yards of segregated clean overburden have been excavated and stockpiled on-site.

On 28 February 2006, soil samples were collected from the walls and delineation trench on the floor of the excavation. The four (4) soil samples were analyzed for

total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO). Laboratory results of the soil samples collected indicated that TPH-GRO/DRO constituent concentrations exceeded NMOCD regulatory standards for three (3) soil samples and were not detected above laboratory method detection limits for the remaining soil sample. Based on the laboratory results, excavation of the crude oil release site continued.

On 08 March 2006, a soil boring was installed at the release point on the excavation floor (18 feet bgs) to a depth of 58 feet bgs to evaluate the vertical impact of the crude oil release. Soil samples were collected at 5 feet intervals, field screened with a Photoionization Detector (PID) and the selected soils samples were analyzed for constituent concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) and TPH-GRO/DRO. Laboratory results indicated that the eight (8) soil samples were below NMOCD regulatory standards for concentrations of BTEX and exceeded NMOCD regulatory standards for TPH-GRO/DRO on seven (7) of the eight (8) soil samples. Groundwater was encountered at approximately 56 feet bgs and a groundwater sample was collected and analyzed for BTEX. Laboratory results indicated the groundwater sample was below NMOCD regulatory standards for CDTEX.

On 13 and 14 March 2006, at the request of Hobbs NMOCD District 1, three (3) groundwater monitor wells were installed, one (1) up gradient and two (2) down gradient of the release point to evaluate the groundwater (see Figure 4, Excavation Site Map – Soil Boring & Monitoring Well Locations). Soil samples were collected at 5 feet intervals; field screened with a PID and selected soils samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Six (6) soil samples were selected for analysis from each of the three (3) groundwater monitoring well installations ranging in depth from 5 to 55 feet bgs, resulting in a total of eighteen (18) soil samples. Laboratory results of the eighteen (18) soil samples indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits.

On 16 and 17 March 2006, the three (3) groundwater monitoring wells were developed, purged and sampled. Additionally, the TFH domestic water well adjacent to the release site was sampled. The groundwater samples were analyzed for constituent concentrations of BTEX and Chlorides. Laboratory results of the three (3) groundwater monitoring wells and TFH domestic well groundwater samples indicated constituent concentrations of BTEX were not detected above laboratory method detection limits and below NMOCD regulatory standards for Chlorides.

On 27 March 2006, confirmation soil samples were collected from the floor and walls of the excavated area (see Figure 3, Excavation Site Map- Soil Sampling Locations). The soil samples were field screened with a PID and analyzed for BTEX and TPH-GRO/DRO. Laboratory results of the eight (8) soil samples collected from the floor and walls of the excavation indicated that TPH-GRO/DRO and BTEX constituent

concentrations were either below NMOCD regulatory standards or were not detected above laboratory method detection limits.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed the average depth to groundwater to be 59 feet bgs for that section, township and range. Based on the installation of the soil boring and three (3) groundwater monitoring wells, the depth to groundwater (59 feet bgs) is accurate. There are no surface water bodies within 1000 feet, however; there is a domestic water well (TFH commercial business) within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of >19, which sets the remediation levels at:

Benzene: 10 ppm

BTEX: 50 ppm

TPH: 100 ppm

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The original release point and visually stained area was excavated to approximately 110 feet long by 75 feet wide and to a depth of approximately 18 feet bgs. Evidence of crude oil impact still existed on the excavation floor beneath the release point area. Photoionization Detector (PID) readings and laboratory results indicated elevated concentrations of Volatile Organic Compounds (VOC) remain. Approximately 3500 cubic yards of impacted soil was excavated and stockpiled adjacent to the excavation on a 6-ml poly-liner and approximately 2500 cubic yards of segregated clean overburden was excavated and stockpiled on-site.

On 28 February 2006, delineation soil samples were collected from the walls and delineation trench on the floor of the excavation. The four (4) soil samples were field screened with a PID and analyzed for constituent concentrations of TPH-GRO/DRO. The four (4) soil samples were collected at depths ranging from 13 to 30 feet bgs. Laboratory results of the soil samples collected indicated that TPH-GRO/DRO constituent concentrations exceeded NMOCD regulatory standards on the floor delineation trench at 30 feet bgs, south wall and west wall soil samples at 970 mg/kg, 909 mg/kg and 1530 mg/kg, respectively. The east wall soil sample was not detected above laboratory method detection limits for constituent concentrations of TPH-GRO/DRO.

Soil Boring 1, as depicted on the Excavation Site Map - Soil Boring & Monitoring Well Locations (Figure 4), was installed on the floor of the excavation at approximately 18 feet bgs at the release point utilizing an air rotary drill rig operated by Straub Corporation, Stanton, Texas. Soil samples collected at 5, 10, 15, 20, 25, 30, 35 and 40 feet bgs subsurface sample depths were submitted for analysis. Soil boring logs are included in Appendix C. No visual observations of free phase hydrocarbons were encountered during the installation of the soil boring. Laboratory data sheets and chain-of-custody forms are attached in Appendix B. Laboratory results indicated that the 5, 10, 15, 20, 25 30 and 35 feet bgs soil samples were below NMOCD regulatory standards for constituent concentrations of BTEX and were not detected above laboratory method detection limits for the 40 feet bgs soil sample. Laboratory results indicated that the 5, 10, 15, 20, 25, 30 and 35 feet bgs soils samples exceeded NMOCD regulatory standards for constituent concentrations of TPH-GRO/DRO at 4210 mg/kg, 5220 mg/kg, 1820 mg/kg, 258 mg/kg, 465 mg/kg, 218 mg/kg and 144 mg/kg, respectively. The 40 feet subsurface soil sample was not detected above laboratory method detection limits for constituent concentrations of TPH-GRO/DRO.

Groundwater Monitoring Well 1 (MW-1) was installed at an up gradient position to the release point. Subsurface soil samples were collected at 5, 15, 25, 35, 45 and 55 feet bgs sample depths and field screened with a PID and submitted for analysis. Laboratory results of the six (6) selected soil samples indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits.

Groundwater Monitoring Well 2 (MW-2) was installed at a down gradient position to the release point. Subsurface soil samples were collected at 5, 15, 25, 35, 45 and 55 feet bgs sample depths and field screened with a PID and submitted for analysis. Laboratory results of the six (6) selected soil samples indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits.

Groundwater Monitoring Well 3 (MW-3) was installed at a down gradient position to the release point. Subsurface soil samples were collected at 5, 15, 25, 35, 45 and 55 feet bgs sample depths and field screened with a PID and submitted for analysis. Laboratory results of the six (6) selected soil samples indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits.

On 27 March 2006, eight (8) confirmation soil samples were collected from the walls and floor of the excavation following additional excavation at depths ranging from 12 to 18 feet, respectively, and submitted for analysis. Soil sample locations are included in Figure 3. Analytical results of the eight (8) confirmation soil samples indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits, with the exception of the south wall soil sample, which indicated detectable TPH-GRO/DRO concentrations, but were below NMOCD regulatory standards.

DISTRIBUTION OF HYDROCARBONS IN THE SATURATED ZONE

Groundwater was encountered at depths varying from 55 to 56 feet bgs in the soil boring and groundwater monitoring wells during drilling activities. No evidence of phase-separated hydrocarbons (PSH) was detected during drilling or groundwater sampling activities. Top-of-casing elevations for the on-site groundwater monitoring wells were not available at the time of this preliminary report; therefore, site-specific groundwater gradient information is not included.

On 16 and 17 March 2006, the three (3) groundwater monitoring wells were developed, purged and sampled. Additionally, the TFH domestic water well adjacent to the release site was sampled. The groundwater samples were analyzed for constituent concentrations of BTEX and Chlorides. Laboratory results of the three (3) groundwater monitoring wells and TFH domestic well groundwater samples indicated constituent concentrations of BTEX were not detected above laboratory method detection limits and below NMOCD regulatory standards for Chlorides (see Groundwater Chemistry, Table 2).

RECOMMENDATIONS FOR REMEDIATION/CLOSURE

Approximately 3500 cubic yards of impacted soil and caliche rock and approximately 2500 cubic yards of segregated clean overburden and caliche rock have been excavated and stockpiled on-site resulting from the emergency response and excavation of the release point and flow path. Approximately 75% of the excavated material consists of caliche rock. Due to the extremely high content of caliche rock and limited vertical subsurface crude oil impact, Plains proposes to mechanically screen the impacted stockpile to separate the caliche rock and soil. Upon completion of the screening activities, the caliche rock will be utilized as partial backfill in accordance with standard NMOCD approved practices. The impacted mechanically screened soil will be transported to the Plains Lea Station Landfill for remediation.

Due to the limited vertical crude oil impact derived from analytical results commensurate with excavation and drilling activities, Plains recommends that an impermeable barrier consisting of a 40-mil poly liner be permanently installed at the base of the excavation to inhibit vertical migration of contaminants in soil left in place below the cap (see Figure 5, Installation Diagram of 40-mil Poly Liner). The barrier will extend to a minimum of three (3) feet beyond the edges of soil impacted above NMOCD remedial thresholds. A 6-inch layer of fine sand will be installed beneath and above the 40-mil poly liner to prevent degrading the integrity of the poly liner. Installation of the 40-mil poly liner at a depth of 18 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural biodegrading of contaminates in the soil.

Once the installation of the 40-mil poly liner is completed, backfilling of the excavation will be initiated with the segregated clean overburden and mechanically screened caliche rock. Soil samples will be collected from the overburden materials at a rate of

one sample per 500 cubic yards to verify constituent concentrations of BTEX and TPH-GRO/DRO are below NMOCD regulatory standards of 100 mg/kg. If necessary, Plains will purchase clean backfill to complete the excavation. The backfilled excavation will be contoured to the original grade surrounding the site and reseeded with approved grass seed.

A request for closure will be submitted to the Hobbs District I office, upon completion of backfilling activities. Based on the results of the remediation activities conducted, Plains requests approval from NMOCD to implement these proposed final remediation and site closure activities.

Based on the results of the groundwater sampling event, Plains request permission from the NMOCD to plug and abandon the three (3) groundwater monitoring wells located at the site. The wells will be plugged in accordance with NMOCD prescribed procedures of cutting the casing off below ground surface level and filling the casing annulus from bottom to top with a cement grout containing 3-5% bentonite.

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

Groundwater Sampling

The groundwater monitoring wells were developed utilizing the Environmental Protection Agency (EPA) protocol of approximately nine well volumes of groundwater or until the monitoring wells are dry using an electrical Grundfos Pump. Within fortyeight hours of development, the monitoring wells were measured and purged of approximately three well volumes utilizing an electrical Grundfos Pump. Groundwater samples were collected using a disposable Teflon sampler and the groundwater samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purged water was collected in a polystyrene tank and disposed of at a licensed New Mexico disposal facility. Groundwater samples were delivered to Environmental Lab of Texas, Odessa, Texas for analysis of BTEX and Chloride concentrations using the methods described below. All samples were analyzed within approved holding times following the collection date.

- BTEX concentrations in accordance with EPA Method 8821B/5030
- Chloride concentrations in accordance with EPA Method 300.0

Decontamination Of Equipment

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

Laboratory Protocol

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

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Preliminary Investigation Report and Work 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 by 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 Highway 82 Lovington, New Mexico 88260 cjreynolds@paalp.com
- Copy 3: Mr. Larry Johnson New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, New Mexico 88240 Larry.Johnson@state.nm.us
- Copy 4: R, M & S Enterprises Hobbs, New Mexico 88240
- Copy 5: Basin Environmental Service Technologies LLC P. O. Box 301 Lovington, New Mexico 88260 <u>kdutton@basinenv.com</u>

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TABLE 1 SOIL CHEMISTRY

PLAINS MARKETING L.P. NORTH HOBBS 8-INCH LEA COUNTY, NEW MEXICO PLAINS SRS: 2006-059

SAMPLE	SAMPLE	SAMPLE SAMPLE		METHOD: E	METHOD: EPA SW 846-8021B, 5030	8021B, 5030		METHOD: 8015M	1 8015M	TOTAL	METHOD
LOCATION	DEPTH	DATE	BENZENE	ENE TOLUENE	ETHYL-	M,P-	O-XYLENE	GRO	DRO	TPH	300
	(Below				BENZENE	XYLENES					CHLORIDES
	Normal										
	Surface Grade)					* * 0					
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Floor @ 30'	30' bgs	02/28/06						96.5	873	970	
East Wall	13' bgs	02/28/06						<10	<10	<10	
South Wall	16' bgs	02/28/06						22	887	606	
West Wall	16' bgs	02/28/06						107	1425	1530	
						Σ.					
SB-1 5'	23' bgs	03/08/06	0.061	0.832	1.79	5.09	0.327	815	3398	4210	
SB-1 10'	28' bgs	03/08/06	0.045	0.606	1.03	2.07	0.684	921	4302	5220	
SB-1 15'	33' bgs	03/08/06	0.033	0.178	0.342	0.611	0.144	199	1622	1820	
SB-1 20	38' bgs	03/08/06	<0.025	<0.025	0.081	0.149	<0.025	11.8	246.3	258	
SB-1 25'	43' bgs	03/08/06	<0.025	<0.025	0.083	0.152	<0.025	22.6	442	465	
	48' bgs	03/08/06	<0.025	0.056	0.081	0.150	<0.025	16.6	201	218	
SB-1 35'	53' bgs	90/80/20	<0.025	0.058	0.082	0.151	<0.025	<10.0	144	144	
SB-1 40'	58' bgs	03/08/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
										and the second second	
MW-1 5'	5' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-1 15'	15' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	10.9
MW-1 25'	25' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-1 35'	35' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-1 45'	45' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-1 55'	55' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
				NACE NOW	and the second second			SERVICE ST		State State	
MW-2 5'	5' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	

TABLE 1 (cont) SOIL CHEMISTRY

PLAINS MARKETING L.P. NORTH HOBBS 8-INCH LEA COUNTY, NEW MEXICO SRS: 2006-059

SAMPLE	SAMPLE	SAMPLE SAMPLE		METHOD: E	METHOD: EPA SW 846-8021B, 5030	8021B, 5030		METHOD	METHOD: 8015M	TOTAL	METHOD
LOCATION	DEPTH	DATE	BENZENE	ENE TOLUENE	ЕТНҮС-	M,P-	O-XYLENE	GRO	DRO	HdT	300
	(Below Normal Surface Grade)				BENZENE XYLENES	XYLENES					CHLORIDES
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW-2 15'	15' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-2 25'	25' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-2 35'	35' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-2 45'	45' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-2 55'	55' bgs	03/13/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
											a the second
MW-3 5'	5' bgs	03/14/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-3 15'	15' bgs	03/14/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-3 25'	25' bgs	03/14/06	<0. <0.	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-3 35'	35' bgs	03/14/06		<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-3 45'	45' bgs	03/14/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
MW-3 55'	55' bgs	03/14/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
S/E Wall	12' bgs	03/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
S. Wall	13' bgs	03/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	12.9	12.9	
S/W Wall	13' bgs	03/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
W. Wall	15' bgs	03/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
N. Wall	13' bgs	03/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
N/E Wall	14' bgs	03/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
E. Wall	12' bgs	03/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
N. Exc. Flr	18' bgs	03/27/06	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
NMOCD CRITERIA	lA		10		TOTAL	TOTAL BTEX 50				100	

TABLE 2

GROUND WATER CHEMISTRY

PLAINS MARKETING, L.P. NORTH HOBBS 8-INCH LEA COUNTY, NEW MEXICO PLAINS SRS: 2006-059

SAMPLE LOCATION	SAMPLE		METHODS:	EPA SW 8	METHODS: EPA SW 846-8021B, 5030	30	Method:	Method:
	DATE	BENZENE	TOLUENE	ЕТНУС-	-d,M	O-XYLENES	160.1	300.0
				BENZENE	XYLENES		TDS	CHLORIDES
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SB-1	03/08/06	<0.001	<0.001	0.003	0.006	<0.001		
MW-1	03/17/06	<0.001	<0.001	<0.001	<0.001	<0.001		45.7
MW-2	03/17/06	<0.001	<0.001	<0.001	<0.001	<0.001		64.0
MW-3	03/17/06	<0.001	<0.001	<0.001	<0.001	<0.001		69.0
TFH W/W	03/17/06	<0.001	<0.001	<0.001	<0.001	<0.001		86.0





















			<i>ico Office of th</i>) Reports and				
	Township: 18	S Range: 38E	Sections:	29			
	NAD27 X:	Y:	Zone:		Search	Radius:	
County:		Basin:		Num	ber:	Suffix:	
Owner Na	me: (First)	(L	ast)		⊖Non-E	Domestic 🔿 Dom	estic ③All
	POD / S	Gurface Data Re	Water Column		pth to Wa	ater Report	
	WERAGE DEPTH C Rng Sec Zone 38E 29	OF WATER REPOR	T 04/21/200 Y Wells 34	6 (Depth Wa Min 38	ter in H Max 120	Feet) Avg 59	

Record Count: 34



Analytical Report

Prepared for:

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

Project: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea Co., NM

Lab Order Number: 6C28009

Report Date: 04/03/06

Plains All American EH & S	Project: N	Vorth Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: S	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: C	Camille Reynolds	04/03/06 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S/E Wall	6C28009-01	Soil	03/27/06 11:40	03/28/06 11:45
S. Wall	6C28009-02	Soil	03/27/06 11:44	03/28/06 11:45
S/W Wall	6C28009-03	Soil	03/27/06 11:52	03/28/06 11:45
W. Wall	6C28009-04	Soil	03/27/06 11:56	03/28/06 11:45
N. Wall	6C28009-05	Soil	03/27/06 12:01	03/28/06 11:45
N/E Wall	6C28009-06	Soil	03/27/06 12:05	03/28/06 11:45
E. Wall	6C28009-07	Soil	03/27/06 12:09	03/28/06 11:45
N. Exc. Fir.	6C28009-08	Soil	03/27/06 12:15	03/28/06 11:45

Plains All American EH & S Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150 Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476 Project Manager: Camille Reynolds	04/03/06 14:16

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
S/E Wall (6C28009-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC63115	03/31/06	04/03/06	EPA 8021B	
oluene	ND	0.0250	**		**	Π	u	"	
thylbenzene	ND	0.0250	11	"		н			
Cylene (p/m)	ND	0.0250	**	"		n	"		
(ylene (o)	ND	0.0250	"	*	n	n	11	n	
urrogate: a,a,a-Trifluorotoluene		109 %	80-1	20	"	n	"	"	
urrogate: 4-Bromofluorobenzene		95.0 %	80-1	20	"	"	"	"	
arbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
arbon Ranges C12-C28	ND	10.0	"	н	Ħ	H	н	"	
arbon Ranges C28-C35	ND	10.0		**	"	н		n	
otal Hydrocarbon C6-C35	ND	10.0	"	"	u	n	n	u	
urrogate: 1-Chlorooctane		112 %	70-1	30	"	n	"	*	
urrogate: 1-Chlorooctadecane		116 %	70-1	30	"	"	**	**	
5. Wall (6C28009-02) Soil									
enzene	ND	0.0250	mg/kg dry	25	EC63115	03/31/06	04/02/06	EPA 8021B	
oluene	ND	0.0250	н	**	u	"		14	
thylbenzene	ND	0.0250	н	**	"	"	n	n	
(p/m)	ND	0.0250	n	"	"	"	**	"	
(ylene (o)	ND	0.0250	н	"		"	"		
urrogate; a,a,a-Trifluorotoluene		107 %	80-1	20	"	"	"	"	
urrogate: 4-Bromofluorobenzene		82.2 %	80-1	20	"	"	"	"	
arbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	12.9	10.0	n	н		**	**	n	
arbon Ranges C28-C35	ND	10.0	"				*	"	
otal Hydrocarbon C6-C35	12.9	10.0	**	"	u	ч	"	n	
urrogate: 1-Chlorooctane		103 %	70-1	30	"	"	"	"	
urrogate: 1-Chlorooctadecane		108 %	70-1	30	"	"	"	"	
/W Wall (6C28009-03) Soil									
enzene	ND	0.0250	mg/kg dry	25	EC63115	03/31/06	04/02/06	EPA 8021B	
oluene	ND	0.0250	14	н	"	n	u	97	
thylbenzene	ND	0.0250	"	*	"	n	"	13	
(ylene (p/m)	ND	0.0250	"	**		11	н	*	
ylene (o)	ND	0.0250	n	"	н	14		"	
urrogate: a,a,a-Trifluorotoluene		107 %	80-1	20	"	"	"	"	
urrogate: 4-Bromofluorobenzene		80.8 %	80-1		"	"	"	"	
arbon Ranges C6-C12	ND	10.0		1	EC62819	03/28/06	03/29/06	EPA 8015M	
Environmental Lab of Texas					<u> </u>			ance with the samples	<u> </u>

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Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/03/06 14:16

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilati	D 41				N .
			Ollits	Dilution	Batch	Prepared	Analyzed	Method	Note
S/W Wall (6C28009-03) Soil									<u>.</u>
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	11	**	u	u	n	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-1	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		105 %	70-1	130	"	"	"	"	
W. Wall (6C28009-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC63115	03/31/06	04/03/06	EPA 8021B	
Toluene	ND	0.0250	"		19	H	"	**	
Ethylbenzene	ND	0.0250	"	n	11	n	"	11	
Xylene (p/m)	ND	0.0250	"	11	11	u	"	н	
Xylene (o)	ND	0.0250	"	"	11	"	"	н	
Surrogate: a,a,a-Trifluorotoluene		99.5 %	80-1	120	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	80-1	120	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	n	н	н	"		"	
Carbon Ranges C28-C35	ND	10.0		"	*1	н	"	"	
Total Hydrocarbon C6-C35	ND	10.0	*1	"	•	"	tt.	**	
Surrogate: 1-Chlorooctane		103 %	70-	130	n	11	"	"	
Surrogate: 1-Chlorooctadecane		106 %	70-2	130	"	"	"	"	
N. Wall (6C28009-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC63115	03/31/06	04/02/06	EPA 8021B	
Toluene	ND	0.0250				"		19	
Ethylbenzene	ND	0.0250		N	**	**	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	н	"	"	
Xylene (o)	ND	0.0250	۳	"	"	"	н	n.	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-1	120		"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	n	"	"	**	
Carbon Ranges C28-C35	ND	10.0	11	*1	"	"	"	**	
Total Hydrocarbon C6-C35	ND	10.0	"	11	"	"	u	"	
Surrogate: 1-Chlorooctane		97.4 %	70-1	130	#	#	#	"	
Surrogate: 1-Chlorooctadecane		99.4 %	70-1	130	"	"	"	n	

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Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/03/06 14:16

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
N/E Wall (6C28009-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC63115	03/31/06	04/02/06	EPA 8021B	
Toluene	ND	0.0250		**	u	"	н	**	
Ethylbenzene	ND	0.0250	"		4	"		**	
Xylene (p/m)	ND	0.0250	"	U	"		**	**	
Xylene (o)	ND	0.0250	"	н	H	11	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-1	20	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	u	"	"	11		
Carbon Ranges C28-C35	ND	10.0			n	"	**		
Total Hydrocarbon C6-C35	ND	10.0	*	n	"	"	"	n	
Surrogate: 1-Chlorooctane	· · · · · · · · · · · · · · · · · · ·	106 %	70-1	30	"	"	n	"	
Surrogate: 1-Chlorooctadecane		108 %	70-1	30	#	"		W	
E. Wall (6C28009-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC63115	03/31/06	04/02/06	EPA 8021B	
oluene	ND	0.0250	"	"	**	"	*	**	
Ethylbenzene	ND	0.0250	n		"	"	"	u	
Kylene (p/m)	ND	0.0250	"	"	"	"	"	10	
(o)	ND	0.0250		"	"	"	n	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0		"	n	н	n	n	
Carbon Ranges C28-C35	ND	10.0	**	"		"	**		
Total Hydrocarbon C6-C35	ND	10.0	"	"		*	"	**	
Surrogate: 1-Chlorooctane		107 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-1	30	"	"	"	"	
N. Exc. Flr. (6C28009-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC63115	03/31/06	04/02/06	EPA 8021B	
Toluene	ND	0.0250	н	*	н	n	n	н	
Ethylbenzene	ND	0.0250	"	"	n	"	н	n	
(ylene (p/m)	ND	0.0250	"	n	n	"	*	"	
(vlene (0)	ND	0.0250		"	**	"	u	17	
Surrogate: a,a,a-Trifluorotoluene		111 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	80-1		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
Environmental Lab of Texas									

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Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/03/06 14:16

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
N. Exc. Flr. (6C28009-08) Soil								·- · · · · · · · · · · · · · · · · · ·	
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC62819	03/28/06	03/29/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	н				"	n	
Total Hydrocarbon C6-C35	ND	10.0	"		"		Ħ	n	
Surrogate: 1-Chlorooctane		104 %	70-1	30	"	n	"	Ħ	
Surrogate: 1-Chlorooctadecane		107 %	70-1	30	"	"	<i>n</i>	н	

Environmental Lab of Texas

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Plains All American EH & S	Project: N	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: S	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: C	Camille Reynolds	04/03/06 14:16

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S/E Wall (6C28009-01) Soil									
% Moisture	2.7	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
S. Wall (6C28009-02) Soil									
% Moisture	1.8	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	·
S/W Wall (6C28009-03) Soil			i						
% Moisture	10.1	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
W. Wall (6C28009-04) Soil						- I			
% Moisture	3.8	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
N. Wali (6C28009-05) Soil									
% Moisture	6.4	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
N/E Wall (6C28009-06) Soil									
% Moisture	9.7	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
E. Wall (6C28009-07) Soil									
% Moisture	5.5	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	
N. Exc. Flr. (6C28009-08) Soil									
% Moisture	9.4	0.1	%	1	EC62905	03/28/06	03/29/06	% calculation	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
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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
				Level						Trotes
Batch EC62819 - Solvent Extraction (GC)				• • •						<u> </u>
Blank (EC62819-BLK1)				Prepared &	z Analyzed:	03/28/06				
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	11							
Carbon Ranges C28-C35	ND	10.0	n							
Total Hydrocarbon C6-C35	ND	10.0	**							
Surrogate: 1-Chlorooctane	45.1		mg/kg	50.0		90.2	70-130			
Surrogate: 1-Chlorooctadecane	46.7		"	50.0		93.4	70-130			
LCS (EC62819-BS1)				Prepared &	2 Analyzed:	03/28/06				
Carbon Ranges C6-C12	594	10.0	mg/kg wet	500		119	75-125			
Carbon Ranges C12-C28	596	10.0	"	500		119	75-125			
Total Hydrocarbon C6-C35	1190	10.0	"	1000		119	75-125			
Surrogate: 1-Chlorooctane	64.6	····	mg/kg	50.0		129	70-130			
Surrogate: 1-Chlorooctadecane	64.5		"	50.0		129	70-130			
Calibration Check (EC62819-CCV1)				Prepared: (03/2 8 /06 A	nalyzed: 03	/29/06			
Carbon Ranges C6-C12	216		mg/kg	250		86.4	80-120			
Carbon Ranges C12-C28	282		"	250		113	80-120			
Total Hydrocarbon C6-C35	498		ч	500		99.6	80-120			
Surrogate: 1-Chlorooctane	50.0		"	50.0		100	70-130			
Surrogate: 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130			
Matrix Spike (EC62819-MS1)	Sou	rce: 6C27008	8-03	Prepared 8	k Analyzed:	03/28/06				
Carbon Ranges C6-C12	526	10.0	mg/kg dry	526	ND	100	75-125			
Carbon Ranges C12-C28	521	10.0	"	526	20.1	95.2	75-125			
Total Hydrocarbon C6-C35	1050	10.0	"	1050	20.1	98.1	75-125			
Surrogate: 1-Chlorooctane	57.6		mg/kg	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	52.9		"	50.0		106	70-130			

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Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	04/03/06 14:16

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
		and the second se								

Batch EC62819 - Solvent Extraction (GC)

Matrix Spike Dup (EC62819-MSD1)	Source: 6C27008-03			Prepared & Analyzed: 03/28/06					
Carbon Ranges C6-C12	541	10.0	mg/kg dry	526	ND	103	75-125	2.81	20
Carbon Ranges C12-C28	538	10.0	"	526	20.1	98.5	75-125	3.21	20
Total Hydrocarbon C6-C35	1080	10.0	**	1050	20.1	101	75-125	2.82	20
Surrogate: 1-Chlorooctane	58.9		mg/kg	50.0		118	70-130		
Surrogate: 1-Chlorooctadecane	54.3		"	50.0		109	70-130		

Batch EC63115 - EPA 5030C (GC)

Blank (EC63115-BLK1)				Prepared & Ana	lyzed: 03/31/06		
Benzene	ND	0.0250	mg/kg wet			· · · · · · · · · · · · · · · · · · ·	
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	39.6		ug/kg	40.0	99.0	80-120	
Surrogate: 4-Bromofluorobenzene	36.6		"	40.0	91.5	80-120	
LCS (EC63115-BS1)				Prepared & Ana	lyzed: 03/31/06		
Benzene	1.15	0.0250	mg/kg wet	1.25	92.0	80-120	
Toluene	1.07	0.0250	н	1.25	85.6	80-120	
Ethylbenzene	1.20	0.0250	"	1.25	96.0	80-120	
Xylene (p/m)	2.44	0.0250	N	2.50	97.6	80-120	
Xylene (0)	1.17	0.0250		1.25	93.6	80-120	
Surrogate: a,a,a-Trifluorotoluene	41.5		ug/kg	40.0	104	80-120	
Surrogate: 4-Bromofluorobenzene	35.7		"	40.0	<i>89.2</i>	80-120	
Calibration Check (EC63115-CCV1)				Prepared: 03/31	/06 Analyzed: 04/	/03/06	
Benzene	45.7		ug/kg	50.0	91.4	80-120	
Toluene	43.5			50.0	87.0	80-120	
Ethylbenzene	47.8		*	50.0	95.6	80-120	
Xylene (p/m)	98.1		*1	100	98 .1	80-120	
Xylene (0)	47.6		"	50.0	95.2	80-120	
Surrogate: a,a,a-Trifluorotoluene	41.4		"	40.0	104	80-120	
Surrogate: 4-Bromofluorobenzene	37.1		"	40.0	92.8	80-120	

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1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/03/06 14:16

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 EC63115 - EPA 5030C (GC)

Matrix Spike (EC63115-MS1)	Source	:e: 6C28009	-02	Prepared: 0	3/31/06	Analyzed: 04	/02/06			
Benzene	1.10	0.0250	mg/kg dry	1.27	ND	86.6	80-120			
Toluene	1.05	0.0250	**	1.27	ND	82.7	80-120			
Ethylbenzene	1.14	0.0250	н	1.27	ND	89.8	80-120			
Xylene (p/m)	2.35	0.0250	*	2.55	ND	92.2	80-120			
Xylene (0)	1.13	0.0250	•	1.27	ND	89.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.3		ug/kg	40.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	33.7		"	40.0		84.2	80-120			
Matrix Spike Dup (EC63115-MSD1)	Source	ce: 6C28009	-02	Prepared: 0	3/31/06	Analyzed: 04	/02/06			
Benzene	1.15	0.0250	mg/kg dry	1.27	ND	90.6	80-120	4.51	20	
Toluene	1.07	0.0250	*	1.27	ND	84.3	80-120	1.92	20	
Ethylbenzene	1. 19	0.0250	*	1.27	ND	93.7	80-120	4.25	20	
Xylene (p/m)	2.38	0.0250	17	2.55	ND	93.3	80-120	1.19	20	
Xylene (0)	1.17	0.0250	*	1.27	ND	92 .1	80-120	3.42	20	
Surrogate: a,a,a-Trifluorotoluene	45.4		ug/kg	40.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

	Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1	1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
	Midland TX, 79706-4476	Project Manager: Camille Reynolds	04/03/06 14:16

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

	D It	Reporting		Spike	Source	4/BEQ	%REC	DBD	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC62905 - General Preparation (Prep)										
Blank (EC62905-BLK1)				Prepared: 0	3/28/06 A	nalyzed: 03	/29/06			
% Solids	100		%	t t						
Duplicate (EC62905-DUP1)	Sour	rce: 6C27008-0	01	Prepared: 0	3/28/06 A	nalyzed: 03	/29/06			
% Solids	93.2		%		93.4			0.214	20	
Duplicate (EC62905-DUP2)	Sour	·ce: 6C28002-6	03	Prepared: 0	3/28/06 A	nalyzed: 03	/29/06			
% Solids	97.5		%		97.5			0.00	20	
Duplicate (EC62905-DUP3)	Sour	rce: 6C28010-	03	Prepared: 0	3/28/06 A	nalyzed: 03	/29/06			
% Solids	88.3		%		88.2			0.113	20	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	04/03/06 14:16

Notes and Definitions

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 Just

4/3/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

Date:

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

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.
reAdd 03-29-06 as per attain e-mail Standard 177 TAT brebnet2 Project Name: North Hobbs 8. Mch 'ਮ× alubado&-ang) TAT HSUM × XX ፟ኡ 5K5# 2006-059 C. Reynold Project Loc: Lec Co., N.M. Laboratory Comments Ð emmed iero .M.A.O.I Femperature.Upon Receipt: 101 Sample Containers Intact? Analyze For BTEX 8021B/5030 Seilleioailus PO# PAA w Qa teleta: As Ag Be Cd Cr Pb Hg Se TOLP: TOTAL: AR / ESP / CEC Project #: (CO3, HCO3, HCO3) anoint (N 'EN 'BW 'CO) subject 2744206 し し し Time 8 PH: 419.1 901610 1002 1008 X > 7 Officer (epecify): ELECTRONEC 3/2×100 110S × Mafrix 4 \varkappa * 2 ~ adprijs Date Date atten ? 191em Fax No: 505-396-1429 Other (Specify) anoN *09^zH Preservative BADCIAL Instructions: HOLD SOIL SANPLES FOR POSSIBLE BTEK ANALYSES HOPN ЮH ^{\$}ONH 90 2 J Y 00 X Amancroforz Gapli Com No. of Containers RESULTS. 140 1156 1215 12511 5. 1209 beigmed smill 1205 1201 NOTIFIENTION BELL POLLOW UPON TAH Received by ELOT 82-260 Basin Environmenta Ź 3/27/06 3/27/06 3/29/06 322466 327.66 3/47/06 31366 347/06 Received by: belqme2 etc0 Ŕ LOWNGTON, NW notto O am 1 <u>m</u> P.O. BOX 301 Telephone No: 505 - 44/- 2124 FIELD CODE Date Óat6 N. Lea Ral Nal WE Wall N. Exc.FIR. w wal W. Wal E. Wall No Wall 24 Company Address: Chty/State/Zip: Project Manager. Company Name Sampler Signature: V 12600 West H20 East Odessa, Texas 79763 AB# (lab_use only) Relinquished by: Relinquished by: 9 2 ē

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas I, Ltd. Phone: 915-563-1800 Fax: 915-563-1713

÷.,

	Environmental Lab of Texas
	Variance / Corrective Action Report – Sample Log-In
Client	Plains
Date/Time	3/28/De 11:45
Order #:	42,007 6C28009
Initials.	CK-

Sample Receipt Checklist Temperature of container/cooler? Yes No 210 C Snipping container/cooler in good condition? Yes No Custody Seals intact on shipping container/cooler? No HCL present Yes Mot present Custody Seals intact on sample bottles? ¢es No Chain of custody present? No Xes Sample Instructions complete on Chain of Custody? No 135 Chain of Custody signed when relinquished and received? No 25 Chain of custody agrees with sample label(s) No **K** Container lacels legible and intact? 789 | No Sample Matrix and properties same as on chain of custody? No Samples in procer container/bottle? 635 No Samples properly preserved? No XS5 Sample bottles intact? No i eş Preservations documented on Chain of Custody? 100 No Containers documented on Chain of Custody? Yas I No Sufficient sample amount for indicated test? No 10 Ail samples received within sufficient hold time? No VOC samples have zero headspace? No | Not Applicable

Other observations:

Variance Documentation:

	Contacted by:
Regarding:	
e 5	
	•
Corrective Action Taken:	
· · · · · · · · · · · · · · · · · · ·	

Jeanne McMurrey

From:	"Кел Dutton" <kdutton@basinenv.com></kdutton@basinenv.com>
To:	"Jeanne" <jeanne@elabtexas.com></jeanne@elabtexas.com>
Cc:	"Camille Reynolds" <cjreynolds@paalp.com></cjreynolds@paalp.com>
Sent:	Wednesday, March 29, 2006 9:02 AM
Subject:	North Hobbs 8-Inch COC (BTEX Analysis)

Jeanne,

Reference the COC for the nine (9) soil samples collected from the North Hobbs 8-Inch release site, which had instructions to "hold the nine (9) soils samples for possible BTEX analysis."

Please proceed and run the nine (9) soil samples for BTEX analysis, Standard TAT, utilizing EPA 8021/5030 protocol.

If you have questions, please contact me.

thxs

Ken (505) 441-2124

This message has been scanned for viruses and dangerous content by Basin Broadband, and is believed to be clean.



Analytical Report

Prepared for:

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

Project: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea County, NM

Lab Order Number: 6C20007

Report Date: 03/23/06

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 20:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
TFH W/W	6C20007-01	Water	03/17/06 14:40	03/20/06 11:00	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 20:49

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TFH W/W (6C20007-01) Water					_				
Chloride	86.0	5.00	mg/L	10	EC62112	03/20/06	03/21/06	EPA 300.0	

Project: North Hobbs 8" Project Number: SRS: 2006-059 Project Manager: Camille Reynolds

Reported: 03/23/06 20:49

Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TFH W/W (6C20007-01) Water									·
Benzene	ND	1.00	ug/l	1	EC62305	03/23/06	03/23/06	EPA 8260B	
Toluene	ND	1.00	"	*	"	"		"	
Ethylbenzene	ND	1.00	0	"	"	н	11	"	
Xylene (p/m)	ND	1.00	"	"	*	u	н	u	
Xylene (o)	ND	1.00	n	"	n	"	H		
Surrogate: Dibromofluoromethane		117 %	68-1	29	"	"	"	H	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	72-1	32	"	n	"	H	
Surrogate: Toluene-d8		109 %	74-1	18	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		101 %	65-1	40	"	"	"	"	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 20:49

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 EC62112 - General Preparation (WetChem)						· · · · · · · · · · · · · · · · · · ·			
Blank (EC62112-BLK1)				Prepared: 0	3/20/06 Ai	nalyzed: 03	/21/06			
Chloride	ND	0.500	mg/L							
LCS (EC62112-BS1)				Prepared: ()3/20/06 Ai	nalyzed: 03	/21/06			
Chloride	9.09		mg/L	10.0		90.9	80-120			
Calibration Check (EC62112-CCV1)				Prepared: (03/20/06 Au	nalyzed: 03	/21/06			
Chloride	9.30		mg/L	10.0		93.0	80-120			
Duplicate (EC62112-DUP1)	Sou	rce: 6C20006-	01	Prepared: ()3/20/06 A	nalyzed: 03	/21/06			
Chloride	46.9	5.00	mg/L		45.7			2.59	20	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914	ļ
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:	
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 20:49	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

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

Batch EC62305 - EPA 5030C (GCMS)

Blank (EC62305-BLK1)				Prepared & Anal	yzed: 03/23/06		
Benzene	ND	1.00	ug/l				
Toluene	ND	1.00	"				
Ethylbenzene	ND	1.00	"				
Xylene (p/m)	ND	1.00	"				
Xylene (0)	ND	1.00	"				
Surrogate: Dibromofluoromethane	44.1		"	50.0	88.2	68-129	
Surrogate: 1,2-Dichloroethane-d4	40.8		"	50.0	81.6	72-132	
Surrogate: Toluene-d8	51.6		"	50.0	103	74-118	
Surrogate: 4-Bromofluorobenzene	46.9		"	50.0	93.8	65-140	
LCS (EC62305-BS1)				Prepared & Anal	yzed: 03/22/06		
Benzene	47.3	1.00	ug/l	50.0	94.6	70-130	
Toluene	57.6	1.00	ų	50.0	115	70-130	
Ethylbenzene	46.7	1.00	"	50.0	93.4	70-130	
Xylene (p/m)	92.6	1.00	N	100	92.6	70-130	
Xylene (o)	47.0	1.00	"	50.0	94.0	70-130	
Surrogate: Dibromofluoromethane	50.4		"	50.0	101	68-129	
Surrogate: 1,2-Dichloroethane-d4	50.4		"	50.0	101	72-132	
Surrogate: Toluene-d8	52.2		"	50.0	104	74-118	
Surrogate: 4-Bromofluorobenzene	41.4		"	50.0	82.8	65-140	
Calibration Check (EC62305-CCV1)				Prepared & Anal	yzed: 03/22/06		
Toluene	54.2		ug/l	50.0	108	70-130	
Ethylbenzene	43.3		"	50.0	86.6	70-130	
Surrogate: Dibromofluoromethane	53.4		"	50.0	107	68-129	
Surrogate: 1,2-Dichloroethane-d4	46.9		"	50.0	93 .8	72-132	
Surrogate: Toluene-d8	52.7		"	50.0	105	74-118	
Surrogate: 4-Bromofluorobenzene	46.4		"	50.0	92.8	65-140	

Environmental Lab of Texas

Project: North Hobbs 8" Project Number: SRS: 2006-059 Project Manager: Camille Reynolds

Fax: (432) 687-4914

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental	Lab	of	Texas
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		F	Reporting		Spike	Source		%REC		RPD	
Analyte	Re	sult	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EC62305 - EPA 5030C (GCMS)

Matrix Spike (EC62305-MS1)	Source	e: 6C16022-2	29	Prepared &	Analyzed:	03/23/06				
Benzene	43.2	1.00	ug/l	50.0	ND	86.4	70-130			
Toluene	52.2	1.00	"	50.0	ND	104	70-130			
Ethylbenzene	39.2	1.00	"	50.0	ND	78.4	70-130			
Xylene (p/m)	75.7	1.00		100	ND	75.7	70-130			
Xylene (0)	39.2	1.00	"	50.0	ND	78.4	70-130			
Surrogate: Dibromofluoromethane	50.2		"	50.0		100	68-129			
Surrogate: 1,2-Dichloroethane-d4	49.1		"	50.0		98.2	72-132			
Surrogate: Toluene-d8	52.8		"	50.0		106	74-118			
Surrogate: 4-Bromofluorobenzene	42.2		"	50.0		84.4	65-140			
Matrix Spike Dup (EC62305-MSD1)	Sourc	e: 6C16022-:	29	Prepared &	Analyzed:	03/23/06				
Benzene	45.9	1.00	ug/l	50.0	ND	91.8	70-130	6.06	20	
Toluene	55.9	1.00	"	50.0	ND	112	70-130	6.85	20	
Ethylbenzene	45.7	1.00		50.0	ND	91.4	70-130	15.3	20	
Xylene (p/m)	89.2	1.00	н	100	ND	89.2	70-130	16.4	20	
Xylene (0)	45.1	1.00	۳	50.0	ND	90.2	70-130	14.0	20	
Surrogate: Dibromofluoromethane	48.9		"	50.0		97.8	68-129			
Surrogate: 1,2-Dichloroethane-d4	47.3		"	50.0		94.6	72-132			
Surrogate: Toluene-d8	50.1		"	50.0		100	74-118			
Surrogate: 4-Bromofluorobenzene	42.0		"	50.0		84.0	65-140			

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 20:49

Notes and Definitions

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 Julies

3/23/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

Date:

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Environmental Lab of Texas

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

Client.	Plains
Date/Time:	3/20/de 11:00
Order #:	6020007
Initials	UK '

Sample Receipt Checklist

Yes	No 1	-1,0 C:
	No	······
XE3	No	Not present
Yes	No	Not present
YES !	No	······································
CB	Nal	
Yes	No	
Yes	No	
Yes	No	
XEB	No	
Yes	No	· · · · ·
YES .	No	
Yes	NO	
1 13	I NO	
1 453	No I	· ·
Yes	No	
(TED)	No	
ALE D	No	Not Apolicable
		No No YES No <

Other observations:

Variance Documentation:

Contact Person: Regarding:	Date/Time:	Contacted by:
Corrective Action Taken:		
۵٬۵۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ ۱۹۹۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰		
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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: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea County, NM

Lab Order Number: 6C20006

Report Date: 03/23/06

Plains All America	n EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Ro	ad 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 7970	-4476	Project Manager:	Camille Reynolds	03/23/06 15:16

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6C20006-01	Water	03/17/06 13:40	03/20/06 11:00
MW-2	6C20006-02	Water	03/17/06 12:06	03/20/06 11:00
MW-3	6C20006-03	Water	03/17/06 10:35	03/20/06 11:00

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 15:16

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6C20006-01) Water									
Chloride	45.7	5.00	mg/L	10	EC62112	03/20/06	03/21/06	EPA 300.0	
MW-2 (6C20006-02) Water									
Chloride	64.0	5.00	mg/L	10	EC62112	03/20/06	03/21/06	EPA 300.0	
MW-3 (6C20006-03) Water									
Chloride	69.0	5.00	mg/L	10	EC62112	03/20/06	03/21/06	EPA 300.0	

ſ	Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
	Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 15:16

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 EC62112 - General Preparation (WetChem)						_			
Blank (EC62112-BLK1)				Prepared: (3/20/06 A	nalyzed: 03	/21/06			
Chloride	ND	0.500	mg/L							
LCS (EC62112-BS1)				Prepared: ()3/20/06 A	nalyzed: 03	/21/06			
Chloride	9.09		mg/L	10.0		90.9	80-120			
Calibration Check (EC62112-CCV1)				Prepared: (3/20/06 A	nalyzed: 03	/21/06			
Chloride	9.30		mg/L	10.0		93.0	80-120			
Duplicate (EC62112-DUP1)	Sou	rce: 6C20006-	01	Prepared: 03/20/06 Analyzed: 03/21/06						
Chloride	46.9	5.00	mg/L		45.7			2.59	20	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 15:16

Notes and Definitions

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 Jut Date:

3/23/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

Environmental Lab of Texas

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Project Name: <u>NORTH</u>	£	ģ						9	1001 9001	Marós r.8	14 HdT]	Time	Time (/·`Oa
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Project Manager	Company Name BASIN ENV. SVCS	Company Address: P, O, BOK 3¢1	City/State/Ztp: LOVZNGTON NA 89260	Telephone No: (505) 441-2124	Sampler Signature:						S	5	,				·	-			ž	3	
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas I, Ltd. 12600 West I-20 East Phone: 915-563-1800 Odeese, Texas 79763 Fax: 915-563-1713

12600 West I-20 East Odessa, Texas 79763

		mental Lab of Texas
	Variance / Correctiv	e Action Report – Sample Log-In
Client.	Plains	
Date/Time:	3/20/de 11:00	
Order #:	602000Ce	
Initials:	UK	

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	
Shipping container/cooler in good condition?	1 des 1	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?	KE3	No	
Sample Instructions complete on Chain of Custody?	(B)	No	······································
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes I	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	1 2003 1	No	
Samples in proper container/bottle?	Yes	No	·····
Samples properly preserved?	YESI	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	1 2551	No	
Containers documented on Chain of Custody?	You	No	
Sufficient sample amount for indicated test?	YES	No	
All samples received within sufficient hold time?	(TES)	No 1	
VOC samples have zero headspace?	Yes	Nod	Not Applicable

Other observations:

Regarding:

 Variance Documentation:

 Centact Person: -_____ Date/Time: _____ Contacted by: _____

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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: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea County, NM

Lab Order Number: 6C20005

Report Date: 03/23/06

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 20:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6C20005-01	Water	03/17/06 13:40	03/20/06 11:00
MW-2	6C20005-02	Water	03/17/06 12:06	03/20/06 11:00
MW-3	6C20005-03	Water	03/17/06 10:35	03/20/06 11:00

Project: North Hobbs 8" Project Number: SRS: 2006-059 Project Manager: Camille Reynolds

Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (6C20005-01) Water								····	
Benzene	ND	1.00	ug/l	1	EC62305	03/23/06	03/23/06	EPA 8260B	
Toluene	ND	1.00	**	"	"	"	"	"	
Ethylbenzene	ND	1.00		"	"	u	U	*	
Xylene (p/m)	ND	1.00	**	"		н	n	n	
Xylene (0)	ND	1.00		"	н	n	и	19	
Surrogate: Dibromofluoromethane		94.6 %	68-12	9	н	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		76.6 %	72-13	2	"	"	"	"	
Surrogate: Toluene-d8		102 %	74-11	8	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	65-14	0	"	п	**	"	
MW-2 (6C20005-02) Water									
Benzene	ND	1.00	ug/l	1	EC62305	03/23/06	03/23/06	EPA 8260B	
Toluene	ND	1.00	*	"	u		Ħ	м	
Ethylbenzene	ND	1.00	**	п		u.		**	
Xylene (p/m)	ND	1.00	"	"		n	11		
Xylene (0)	ND	1.00	"		"	"	"	11	
Surrogate: Dibromofluoromethane		112 %	68-12	9	"	"	"	**	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	72-13	2	"	"	"	"	
Surrogate: Toluene-d8		108 %	74-11	8	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	65-14	0	"	"	"	"	
MW-3 (6C20005-03) Water									
Benzene	ND	1.00	ug/l	1	EC62305	03/23/06	03/23/06	EPA 8260B	
Toluene	ND	1.00	11	"	U	**	н	"	
Ethylbenzene	ND	1.00	11	"	H	n	u	u	
Xylene (p/m)	ND	1.00	11	"	"	**	H	н	
Xylene (0)	ND	1.00	H	"	в	*	"	59	
Surrogate: Dibromofluoromethane		105 %	68-12	9	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	72-13	2	"	"	"	"	
Surrogate: Toluene-d8		98.8 %	74-11	8	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	65-14	0	"	"	"	"	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 20:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC62305 - EPA 5030C (GCMS)		· · · · · · · · · · · · · · · · · · ·								
Blank (EC62305-BLK1)				Prepared &	Analyzed:	03/23/06				
Benzene	ND	1.00	ug/l							
Foluene	ND	1.00	u							
Ethylbenzene	ND	1.00	**							
Xylene (p/m)	ND	1.00								
Xylene (0)	ND	1.00								
Surrogate: Dibromofluoromethane	44.1		"	50.0		88.2	68-129			
Surrogate: 1,2-Dichloroethane-d4	40.8		"	50.0		81.6	72-132			
Surrogate: Toluene-d8	51.6		"	50.0		103	74-118			
Surrogate: 4-Bromofluorobenzene	46.9		"	50.0		93.8	65-140			
LCS (EC62305-BS1)				Prepared &	Analyzed:	03/22/06				
Benzene	47.3	1.00	ug/l	50.0		94.6	70-130			
Foluene	57.6	1.00	*	50.0		115	70-130			
Ethylbenzene	46.7	1.00	**	50.0		93.4	70-130			
Xylene (p/m)	92.6	1.00	"	100		92.6	70-130			
Xylene (0)	47.0	1.00	"	50.0		94.0	70-130			
Surrogate: Dibromofluoromethane	50.4		"	50.0		101	68-129			
Surrogate: 1,2-Dichloroethane-d4	50.4		"	50.0		101	72-132			
Surrogate: Toluene-d8	52.2		"	50.0		104	74-118			
Surrogate: 4-Bromofluorobenzene	41.4		"	50.0		82.8	65-140			
Calibration Check (EC62305-CCV1)				Prepared &	Analyzed:	03/22/06				
Toluene	54.2		ug/l	50.0	· · · · · · · · · · · · · · · · · · ·	108	70-130			
Ethylbenzene	43.3		"	50.0		86.6	70-130			
Surrogate: Dibromofluoromethane	53.4		"	50.0		107	68-129			
Surrogate: 1,2-Dichloroethane-d4	46.9		"	50.0		93.8	72-132			
Surrogate: Toluene-d8	52.7		"	50.0		105	74-118			
Surrogate: 4-Bromofluorobenzene	46.4		n	50.0		92.8	65-140			

Environmental Lab of Texas

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 20:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

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

Batch EC62305 - EPA 5030C (GCMS)

Matrix Spike (EC62305-MS1)	Sourc	Source: 6C16022-29			Analyzed	03/23/06				
Benzene	43.2	1.00	ug/l	50.0	ND	86.4	70-130			
Tohuene	52.2	1.00	n	50.0	ND	104	70-130			
Ethylbenzene	39.2	1.00	и	50.0	ND	78.4	70-130			
Xylene (p/m)	75.7	1.00	п	100	ND	75.7	70-130			
Xylene (0)	39.2	1.00	n	50.0	ND	78.4	70-130			
Surrogate: Dibromofluoromethane	50.2		"	50.0		100	68-129			
Surrogate: 1,2-Dichloroethane-d4	49.1		"	50.0		98.2	72-132			
Surrogate: Toluene-d8	52.8		"	50.0		106	74-118			
Surrogate: 4-Bromofluorobenzene	42.2		"	50.0		84.4	65-140			
Matrix Spike Dup (EC62305-MSD1)	Sourc	e: 6C16022-3	29	Prepared &	Analyzed:	03/23/06				
Benzene	45.9	1.00	ug/l	50.0	ND	91.8	70-130	6.06	20	
Foluene	55.9	1.00	"	50.0	ND	112	70-130	6.85	20	
Ethylbenzene	45.7	1.00	Ħ	50.0	ND	91.4	70-130	15.3	20	
Xylene (p/m)	89.2	1.00	11	100	ND	89.2	70-130	16.4	20	
Xylene (o)	45.1	1.00	n	50.0	ND	90.2	70-130	14.0	20	
Surrogate: Dibromofluoromethane	48.9		"	50.0		97.8	68-129			
Surrogate: 1,2-Dichloroethane-d4	47.3		"	50.0		94.6	72-132			
	60.1		"	50.0		100	74-118			
Surrogate: Toluene-d8	50.1			50.0		100	74110			

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 20:45

Notes and Definitions

DET	Analyte DETECTED
NŬ	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 Junis

3/23/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist 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.

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Environmental Lab of Texas	12600 West 1-20 East Odessa, Texas 79763	Project Manager.	company Name BASIN	Company Address: Z	City/State/Zip: LOVIN610N, NH	Telephone No: (5 #5) 441-2124 Sampler Signature:														Special Instructions:		, in the second	NN	1
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		nental Lab of Texas Action Report – Sample Log-In
Client.	Plains	
Date/Time:	3/20/de 11:00	- . ·
Order #:	6020005	
Initials:	UK	•

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-1,0 C
Shipping container/cooler in good condition?	(B)	No	······································
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	1 Yes	No	Not present
Chain of custody present?	Ves I	No	
Sample Instructions complete on Chain of Custody?		No	
Chain of Custody signed when relinquished and received?	Yes I	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container lacels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	XEB	No	
Samples in proper container/bottle?	1 400	No	
Samples properly preserved?	¥55B	No	
Sample bottles intact?	YES	NO	an a
Preservations documented on Chain of Custody?	1 23	No	۳۵۰ - ۲۵۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰۰ - ۲۰
Containers documented on Chain of Custody?	1493	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	(TED)	No	
VOC samples have zero headspace?	CL33	No	Not Applicable

Other observations:

.....

Contact Person: Regarding:	Variance Documentation: Date/Time:	Contacted by:
Corrective Action Taken:		



Analytical Report

Prepared for:

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

Project: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea County, NM

Lab Order Number: 6C16004

Report Date: 03/23/06

Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476	Project: North Hol Project Number: SRS: 2000 Project Manager: Camille R	-059		Fax: (432) 687-4914 Reported: 03/23/06 16:49
	ANALYTICAL REPORT FOR SA	MPLES		
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 5'	6C16004-01	Soil	03/13/06 09:59	03/16/06 10:00
MW-1 15'	6C16004-02	Soil	03/13/06 10:06	03/16/06 10:00
MW-1 25'	6C16004-03	Soil	03/13/06 10:12	03/16/06 10:00
MW-1 35'	6C16004-04	Soil	03/13/06 10:17	03/16/06 10:00
MW-1 45'	6C16004-05	Soil	03/13/06 10:21	03/16/06 10:00
MW-1 55'	6C16004-06	Soil	03/13/06 10:39	03/16/06 10:00

6C16004-07

6C16004-08

6C16004-09

6C16004-10

6C16004-11

6C16004-12

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6C16004-15

6C16004-16

6C16004-17

6C16004-18

Soil

03/13/06 12:41

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MW-2 5'

MW-2 15'

MW-2 25'

MW-2 35'

MW-2 45'

MW-2 55'

MW-3 5'

MW-3 15'

MW-3 25'

MW-3 35'

MW-3 45'

MW-3 55'

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 5' (6C16004-01) Soil			·						<u></u>
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	"	n	*	"	u	n	
Ethylbenzene	ND	0.0250	"	"	"	"	и		
Xylene (p/m)	ND	0.0250	"	'n	**	н	"	n	
Xylene (0)	ND	0.0250	n	11	"	н	н	*	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	80-1	20	n	"	"	**	
Surrogate: 4-Bromofluorobenzene		99.8 %	80-1	20	"	"	#	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	u	n	н	
Carbon Ranges C28-C35	ND	10.0	»	Ħ	ч	II		n	
Total Hydrocarbon C6-C35	ND	10.0	"		"	T	11	**	
Surrogate: 1-Chlorooctane		92.8 %	70-1	130	"	"	n	"	
Surrogate: 1-Chlorooctadecane		93.8 %	70-1	30	"	"	ri	"	
MW-1 15' (6C16004-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250		υ	"	u	u	"	
Ethylbenzene	ND	0.0250	"	n	"	н	u	**	
Xylene (p/m)	ND	0.0250		"	н	n	r	"	
Xylene (o)	ND	0.0250	"		11	n	17	"	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	н	"	"	*	11	
Carbon Ranges C28-C35	ND	10.0	"	н	"	"	tt.	it	
Total Hydrocarbon C6-C35	ND	10.0	н	"	**	"	н	n	
Surrogate: 1-Chlorooctane		95.4 %	70-1	30	"	'n	11	"	
Surrogate: 1-Chlorooctadecane		97.2 %	70-1	30	"	"	"	"	
MW-1 25' (6C16004-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	"	**	"	"	n	u	
Ethylbenzene	ND	0.0250	n	"		"	"	н	
Xylene (p/m)	ND	0.0250	"	"	u	"	n	n	
Xylene (0)	ND	0.0250	'n	"		"	18	n	
Surrogate: a,a,a-Trifluorotoluene		83.2 %	80-1	20	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Environmental Lab of Texas			The res	sults in this r	eport apply to	the samples an	alvzed in accord	ance with the samples	

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Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 25' (6C16004-03) Soil				Dilution	Batch	Fleparcu	Analyzeo	Melliod	INULE
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"		17	"		*	
Total Hydrocarbon C6-C35	ND	10.0	n			"		n	
Surrogate: 1-Chlorooctane		113 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-1	30	"	"	**	"	
MW-1 35' (6C16004-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	**	н	"	"	"	11	
Ethylbenzene	ND	0.0250	"	"	*	n	n	"	
Xylene (p/m)	ND	0.0250	"	n	"	"		11	
Xylene (0)	ND	0.0250	*	п	"	Π	**	n	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	н	**		"	**	11	
Carbon Ranges C28-C35	ND	10.0	"	17	11	"	"	u	
Total Hydrocarbon C6-C35	ND	10.0	"	"	H	n	11	"	
Surrogate: 1-Chlorooctane		94.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.2 %	70-1	30	"	"	"	"	
MW-1 45' (6C16004-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	n	"	"	۳	n	*	
Ethylbenzene	ND	0.0250	н	11		H		**	
Xylene (p/m)	ND	0.0250	n	11	*	"	*	"	
Xylene (0)	ND	0.0250	н	*	11	"	"	*	
Surrogate: a,a,a-Trifluorotoluene		88.0 %	80-1	20	"	n	"	n	
Surrogate: 4-Bromofluorobenzene		104 %	80-1	20	"	"	"	11	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	

Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	*1
Carbon Ranges C28-C35	ND	10.0	"	u	17	"		"
Total Hydrocarbon C6-C35	ND	10.0	"	"			n	ņ
Surrogate: 1-Chlorooctane		106 %	70-13	0	"	"	n	н
Surrogate: 1-Chlorooctadecane		106 %	70-13	0	"	"	"	"

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Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 55' (6C16004-06) Soil			· ·	Diduon	Butch		7 mai y 200		
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250		"		"	n	n	
Ethylbenzene	ND	0.0250	"	"	"	н	u	н	
Xylene (p/m)	ND	0.0250	н	"	**	u	u	н	
Xylene (o)	ND	0.0250	n	н	"	"	u	**	
Surrogate: a,a,a-Trifluorotoluene		85.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-1		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	н	"	"	n	"	
Carbon Ranges C28-C35	ND	10.0	"	н	н	"		19	
Total Hydrocarbon C6-C35	ND	10.0	"	н	н	"	"	**	
Surrogate: 1-Chlorooctane		113 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-1	30	"	"	"	"	
MW-2 5' (6C16004-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	**	"	"	n	"	"	
Ethylbenzene	ND	0.0250	н	"	"	n	"	**	
Xylene (p/m)	ND	0.0250	n		"	н	ii	e ,	
Xylene (o)	ND	0.0250	'n		"	n	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		106 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	н	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	H		*	11	
Total Hydrocarbon C6-C35	ND	10.0	"		"	"		n	
Surrogate: 1-Chlorooctane		116 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-1	30	"	"	"	"	
MW-2 15' (6C16004-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	u	"	"	۳	11	u	
Ethylbenzene	ND	0.0250		"	"	"	11	н	
Xylene (p/m)	ND	0.0250		"	"		11	n	
Xylene (0)	ND	0.0250	n	H	**	u	"	11	
Surrogate: a,a,a-Trifluorotoluene		90.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	80-1	20	n	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Environmental Lab of Texas			The re	sults in this	report apply to	the samples an	alyzed in accord	ance with the samples	7

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Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 15' (6C16004-08) Soil			·						
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	n	"	11	н		19	
Total Hydrocarbon C6-C35	ND	10.0	"		"	"		19	
Surrogate: 1-Chlorooctane		94.2 %	70-1	30	"	n	"	"	
Surrogate: 1-Chlorooctadecane		96.0 %	70-1	30	"	"	"	"	
MW-2 25' (6C16004-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	"	"		"	n	19	
Ethylbenzene	ND	0.0250	"	"	"	n	"	11	
Xylene (p/m)	ND	0.0250	"	"	**	n	ч	11	
Xylene (o)	ND	0.0250	"	n	H	n	u	I	
Surrogate: a,a,a-Trifluorotoluene		96.0 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	11		"	*	11	
Carbon Ranges C28-C35	ND	10.0	"	"	н	"	"		
Total Hydrocarbon C6-C35	ND	10.0	"	ч		"	"		
Surrogate: 1-Chlorooctane	·····	96.2 %	70-1	30	"	n	n	11	
Surrogate: 1-Chlorooctadecane		97.6 %	70-1	30	"	"	"	"	
MW-2 35' (6C16004-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	"	**	"	"	*		
Ethylbenzene	ND	0.0250		n	*	"	n		
Xylene (p/m)	ND	0.0250	"	u	**	۳		u	
Xylene (o)	ND	0.0250	11	"	**	н	n	"	
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	

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Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M
Carbon Ranges C12-C28	ND	10.0	R	"		"	"	*
Carbon Ranges C28-C35	ND	10.0	"	n		H	n	"
Total Hydrocarbon C6-C35	ND	10.0	u	11	n	n	w	n
Surrogate: 1-Chlorooctane		96.2 %	70-13	80	"	"	"	"
Surrogate: 1-Chlorooctadecane		99.6 %	70-13	80	"	"	"	n

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Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	N
MW-2 45' (6C16004-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Foluene	ND	0.0250	"	"	"	u	"	14	
Ethylbenzene	ND	0.0250	н		u	"	н	н	
Kylene (p/m)	ND	0.0250	"	"	"	"	"		
(ylene (o)	ND	0.0250	n	**		u	u	u	
urrogate: a,a,a-Trifluorotoluene		85.5 %	80-1	20	"	"	n	"	
urrogate: 4-Bromofluorobenzene		101 %	80-1	20	"	"	n	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	*	"	"	*	я	71	
Carbon Ranges C28-C35	ND	10.0	"	11	**	17		19	
otal Hydrocarbon C6-C35	ND	10.0	"	11	**	**	n	"	
urrogate: I-Chlorooctane		99.6 %	70-1	30	"	"	11	77	
urrogate: 1-Chlorooctadecane		103 %	70-1	30	"	"	"	"	
AW-2 55' (6C16004-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
oluene	ND	0.0250	n	*	*	u			
thylbenzene	ND	0.0250	"	11	"	"	n	II	
ζylene (p/m)	ND	0.0250	"	11			н	**	
(ylene (o)	ND	0.0250	"	۳	"	n	u	**	
Surrogate: a,a,a-Trifluorotoluene		89.5 %	80-1	20	"	"	"	11	
Surrogate: 4-Bromofluorobenzene		97.0 %	80-1	20	"	"	"	11	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	n		"	*	11	
Carbon Ranges C28-C35	ND	10.0	"	**	u	n	*	**	
Total Hydrocarbon C6-C35	ND	10.0	"	**	н	H	"	*1	
Surrogate: 1-Chlorooctane		95.0 %	70-1	30	"	"	n	"	
Surrogate: 1-Chlorooctadecane		96.8 %	70-1	30	"	"	"	"	
4W-3 5' (6C16004-13) Soil									
enzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
oluene	ND	0.0250	"	"		n	n	н	
thylbenzene	ND	0.0250	"		"	"	"	n	
(ylene (p/m)	ND	0.0250	"	"	"	u	"	н	
Cylene (0)	ND	0.0250	"	"		"	"	11	
urrogate: a,a,a-Trifluorotoluene		85.2 %	80-1	20	"	"	 n	"	
urrogate: 4-Bromofluorobenzene		93.8 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Environmental Lab of Texas								ance with the samples	

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Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 5' (6C16004-13) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	"	**	"	"	н	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	H	н		18	
Surrogate: 1-Chlorooctane		96.8 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	100 % 70-130		"	"	n	"	
MW-3 15' (6C16004-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	n	Ħ	"	n	"	"	
Ethylbenzene	ND	0.0250	"		"	"	"		
Xylene (p/m)	ND	0.0250	"	"		"	"	•	
Xylene (o)	ND	0.0250	n	"	'n	"	"	n	
Surrogate: a,a,a-Trifluorotoluene		84.0 %	80-1	20	#	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0		"	"	"	u.	n	
Carbon Ranges C28-C35	ND	10.0	11	"	"	u	"	и	
Total Hydrocarbon C6-C35	ND	10.0	n	"	ч	14	n	11	
Surrogate: 1-Chlorooctane		98.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.4 %	5 70-130		"	"	"	"	
MW-3 25' (6C16004-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/20/06	EPA 8021B	
Toluene	ND	0.0250	"	"	**	"	11	10	
Ethylbenzene	ND	0.0250	"	и	*	n	**	16	
Xylene (p/m)	ND	0.0250	**	"	"	"	86	19	
Xylene (o)	ND	0.0250	*1	Ħ	"	"	*	**	
Surrogate: a,a,a-Trifluorotoluene		87.8 %	80-1	20	n	n	n	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	80-1	20	"	п	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	n	"	v	"	n	Ħ	
Carbon Ranges C28-C35	ND	10.0	"	ч	11	"	**	**	
Total Hydrocarbon C6-C35	ND	10.0	**		"	"		*	

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

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70-130

70-130

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103 %

104 %

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Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-3 35' (6C16004-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62005	03/20/06	03/21/06	EPA 8021B	
Foluene	ND	0.0250	"	"	"	"	u	u	
Ethylbenzene	ND	0.0250	"	•	a	"	"	и	
Kylene (p/m)	ND	0.0250	н	"		11	*	n	
Kylene (0)	ND	0.0250	"	n	n	n	n	n	
Surrogate: a,a,a-Trifluorotoluene		89.8 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80-1	20	"	"	n	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	*	"	u	u	u	
Carbon Ranges C28-C35	ND	10.0	**	**	"	n	n	n	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	11	Π	91	
Surrogate: 1-Chlorooctane		95.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.8 %	70-1	30	n	"	"	"	
MW-3 45' (6C16004-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	EPA 8021B	
Foluene	ND	0.0250	**	"	n	и	n	11	
Ethylbenzene	ND	0.0250	n	"	"	*	н	n	
Xylene (p/m)	ND	0.0250	1)	u	н	*		"	
Xylene (0)	ND	0.0250	"	u	"	Π	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.5 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		90.8 %	80-1	20	"	"	n	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"		n	11		n	
Carbon Ranges C28-C35	ND	10.0	"	"	"	n	n	"	
Total Hydrocarbon C6-C35	ND	10.0	17	"	"	11	H	"	
Surrogate: 1-Chlorooctane		110 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		104 %	70-1	30	"	"	"	"	
MW-3 55' (6C16004-18) Soil					_				
Benzene	ND	0.0250	mg/kg dry	25	EC62103	03/20/06	03/21/06	EPA 8021B	
Toluene	ND	0.0250	*	н	۳	11	"	11	
Ethylbenzene	ND	0.0250	"	н	**	"	"	"	
Xylene (p/m)	ND	0.0250	n	"	"	"	n	"	
Xylene (0)	ND	0.0250	"		H		н		
Surrogate: a,a,a-Trifluorotoluene		97.2 %	80-1	20	"	"	ņ	11	
Surrogate: 4-Bromofluorobenzene		104 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	

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.

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 16:49

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 55' (6C16004-18) Soil									
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC61616	03/16/06	03/17/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	н	"		"	n	11	
Total Hydrocarbon C6-C35	ND	10.0	n	۳	"	"	"	19	
Surrogate: 1-Chlorooctane		113 %	70-13	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		105 %	70-13	80	"	"	11	"	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
3.2	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	-
10.9	5.00	mg/kg	10	EC62001	03/20/06	03/20/06	EPA 300.0	
7.0	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
5.5	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
4.6	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
5.1	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
11.4	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	<u>, </u>
6.0	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
4.1	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
4.1	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
3.8	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
	3.2 10.9 7.0 5.5 4.6 5.1 11.4 6.0 4.1 4.1	Result Limit 3.2 0.1 10.9 5.00 7.0 0.1 5.5 0.1 4.6 0.1 5.1 0.1 11.4 0.1 6.0 0.1 4.1 0.1	Result Limit Units 3.2 0.1 % 10.9 5.00 mg/kg 7.0 0.1 % 5.5 0.1 % 4.6 0.1 % 5.1 0.1 % 6.0 0.1 % 4.1 0.1 %	Result Limit Units Dilution 3.2 0.1 % 1 10.9 5.00 mg/kg 10 7.0 0.1 % 1 5.5 0.1 % 1 4.6 0.1 % 1 5.5 0.1 % 1 4.6 0.1 % 1 5.1 0.1 % 1 6.0 0.1 % 1 4.1 0.1 % 1 4.1 0.1 % 1	Result Limit Units Dilution Batch 3.2 0.1 % 1 EC61702 10.9 5.00 mg/kg 10 EC62001 7.0 0.1 % 1 EC61702 5.5 0.1 % 1 EC61702 4.6 0.1 % 1 EC61702 4.6 0.1 % 1 EC61702 11.4 0.1 % 1 EC61702 6.0 0.1 % 1 EC61702 4.1 0.1 % 1 EC61702 4.1 0.1 % 1 EC61702	Result Limit Units Dilution Batch Prepared 3.2 0.1 % 1 EC61702 03/16/06 10.9 5.00 mg/kg 10 EC62001 03/20/06 7.0 0.1 % 1 EC61702 03/16/06 5.5 0.1 % 1 EC61702 03/16/06 4.6 0.1 % 1 EC61702 03/16/06 5.1 0.1 % 1 EC61702 03/16/06 11.4 0.1 % 1 EC61702 03/16/06 6.0 0.1 % 1 EC61702 03/16/06 4.1 0.1 % 1 EC61702 03/16/06 4.1 0.1 % 1 EC61702 03/16/06 4.1 0.1 % 1 EC61702 03/16/06	Result Limit Units Dilution Batch Prepared Analyzed 3.2 0.1 % 1 EC61702 03/16/06 03/17/06 10.9 5.00 mg/kg 10 EC62001 03/20/06 03/20/06 7.0 0.1 % 1 EC61702 03/16/06 03/17/06 5.5 0.1 % 1 EC61702 03/16/06 03/17/06 4.6 0.1 % 1 EC61702 03/16/06 03/17/06 5.1 0.1 % 1 EC61702 03/16/06 03/17/06 11.4 0.1 % 1 EC61702 03/16/06 03/17/06 6.0 0.1 % 1 EC61702 03/16/06 03/17/06 4.1 0.1 % 1 EC61702 03/16/06 03/17/06 4.1 0.1 % 1 EC61702 03/16/06 03/17/06	Result Limit Units Dilution Batch Prepared Analyzed Method 3.2 0.1 % 1 EC61702 03/16/06 03/17/06 % calculation 10.9 5.00 mg/kg 10 EC62001 03/20/06 03/20/06 EPA 300.0 7.0 0.1 % 1 EC61702 03/16/06 03/17/06 % calculation 5.5 0.1 % 1 EC61702 03/16/06 03/17/06 % calculation 4.6 0.1 % 1 EC61702 03/16/06 03/17/06 % calculation 11.4 0.1 % 1 EC61702 03/16/06 03/17/06 % calculation 6.0 0.1 % 1 EC61702 03/16/06 03/17/06 % calculation 4.1 0.1 % 1 EC61702 03/16/06 03/17/06 % calculation 4.1 0.1 % 1 EC61702 03/16/06 03/17/06

Plains All American EH & S	Project: 1	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 45' (6C16004-11) Soil									
% Moisture	7.2	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-2 55' (6C16004-12) Soil									
% Moisture	6.9	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 5' (6C16004-13) Soil									
% Moisture	2.0	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 15' (6C16004-14) Soil									
% Moisture	8.4	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 25' (6C16004-15) Soil									
% Moisture	5.2	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 35' (6C16004-16) Soil	<u> </u>								
% Moisture	4.4	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 45' (6C16004-17) Soil									
% Moisture	5.5	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	
MW-3 55' (6C16004-18) Soil									
% Moisture	10.4	0.1	%	1	EC61702	03/16/06	03/17/06	% calculation	

Plains All A	merican EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. Cou	nty Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX	, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC61616 - Solvent Extraction (GC)										
Blank (EC61616-BLK1)				Prepared: (03/16/06 A	nalyzed: 03	/17/06			
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	45.5		mg/kg	50.0		91.0	70-130			
Surrogate: 1-Chlorooctadecane	47.4		"	50.0		94.8	70-130			
LCS (EC61616-BS1)				Prepared 8	k Analyzed:	: 03/16/06 `				
Carbon Ranges C6-C12	607	10.0	mg/kg wet	500		121	75-125			
Carbon Ranges C12-C28	555	10.0	1*	500		111	75-125			
Total Hydrocarbon C6-C35	1160	10.0		1000		116	75-125			
Surrogate: 1-Chlorooctane	64.5		mg/kg	50.0		129	70-130			~
Surrogate: 1-Chlorooctadecane	61.3		"	50.0		123	70-130			
Calibration Check (EC61616-CCV1)				Prepared: (03/16/06 A	nalyzed: 03	/17/06			
Carbon Ranges C6-C12	293	·	mg/kg	250		117	80-120			
Carbon Ranges C12-C28	297		"	250		119	80-120			
Total Hydrocarbon C6-C35	590		"	500		118	80-120			
Surrogate: 1-Chlorooctane	61.0		"	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	52.5		"	50.0		105	70-130			
Matrix Spike (EC61616-MS1)	Sou	rce: 6C16004	-01	Prepared:	03/16/06 A	nalyzed: 03	/17/06			
Carbon Ranges C6-C12	581	10.0	mg/kg dry	517	ND	112	75-125			
Carbon Ranges C12-C28	581	10.0	11	517	ND	112	75-125			
Total Hydrocarbon C6-C35	1160	10.0	11	1030	ND	113	75-125			
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	49.0		"	50.0		98.0	70-130			

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Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

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

Batch EC61616 - Solvent Extraction (GC)

Matrix Spike Dup (EC61616-MSD1)	Source: 6C16004-01			Prepared: 0					
Carbon Ranges C6-C12	501	10.0	mg/kg dry	517	ND	96.9	75-125	14.8	20
Carbon Ranges C12-C28	519	10.0	"	517	ND	100	75-125	11.3	20
Total Hydrocarbon C6-C35	1020	10.0	"	1030	ND	99 .0	75-125	12.8	20
Surrogate: 1-Chlorooctane	58.1		mg/kg	50.0		116	70-130		
Surrogate: 1-Chlorooctadecane	54.8		"	50.0		110	70-130		

Batch EC62005 - EPA 5030C (GC)

Blank (EC62005-BLK1)				Prepared & Ana	lyzed: 03/20/06		
Benzene	ND	0.0250	mg/kg wet				
Toluene	ND	0.0250	n				
Ethylbenzene	ND	0.0250	u				
Xylene (p/m)	ND	0.0250					
Xylene (o)	ND	0.0250	"				
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/kg	40.0	91.5	80-120	
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0	98.0	80-120	
LCS (EC62005-BS1)				Prepared & Ana	lyzed: 03/20/06		
Benzene	1.00	0.0250	mg/kg wet	1.25	80.0	80-120	
Toluene	1.13	0.0250	"	1.25	90.4	80-120	
Ethylbenzene	1.29	0.0250	н	1.25	103	80-120	
Xylene (p/m)	2.66	0.0250	n	2.50	106	80-120	
Xylene (o)	1.30	0.0250	n	1.25	104	80-120	
Surrogate: a,a,a-Trifluorotoluene	35.1		ug/kg	40.0	87.8	80-120	
Surrogate: 4-Bromofluorobenzene	42.6		"	40.0	106	80-120	
Calibration Check (EC62005-CCV1)				Prepared & Anal	lyzed: 03/20/06		
Benzene	40.4		ug/kg	50.0	80.8	80-120	
Toluene	40.7		11	50.0	81.4	80-120	
Ethylbenzene	40.8		0	50.0	81.6	80-120	
Xylene (p/m)	82.5		"	100	82.5	80-120	
Xylene (0)	41.8		"	50.0	83.6	80-120	
Surrogate: a,a,a-Trifluorotoluene	37.6		"	40.0	94.0	80-120	
Surrogate: 4-Bromofluorobenzene	34.8		"	40.0	87.0	80-120	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

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

Batch EC62005 - EPA 5030C (GC)

Matrix Spike (EC62005-MS1)	Sour	ce: 6C16004	-13	Prepared &	Analyzed:	03/20/06	
Benzene	1.10	0.0250	mg/kg dry	1.28	ND	85.9	80-120
Toluene	1.28	0.0250		1.28	ND	100	80-120
Ethylbenzene	1.47	0.0250	п	1.28	ND	115	80-120
Xylene (p/m)	2.98	0.0250		2.55	ND	117	80-120
Xylene (0)	1.48	0.0250	· 11	1.28	ND	116	80-120
Surrogate: a,a,a-Trifluorotoluene	40.2		ug/kg	40.0		100	80-120
Surrogate: 4-Bromofluorobenzene	44.2		"	40.0		110	80-120

Matrix Spike Dup (EC62005-MSD1)	Sour	rce: 6C16004	-13	Prepared: 0)3/20/06 A	nalyzed: 03	3/21/06			
Benzene	1.05	0.0250	mg/kg dry	1.28	ND	82.0	80-120	4.65	20	
Toluene	1.20	0.0250	н	1.28	ND	93.8	80-120	6.40	20	
Ethylbenzene	1.37	0.0250	ч	1.28	ND	107	80-120	7.21	20	
Xylene (p/m)	2.80	0.0250	"	2.55	ND	110	80-120	6.17	20	
Xylene (0)	1.38	0.0250	"	1.28	ND	108	80-120	7.14	20	
Surrogate: a,a,a-Trifluorotoluene	35.5		ug/kg	40.0		88.8	80-120			
Surrogate: 4-Bromofluorobenzene	42.1		"	40.0		105	80-120			

Batch EC62103 - EPA 5030C (GC)

Blank (EC62103-BLK1)			Prepared: 03/20/06 Analyzed: 03/21/06				
Benzene	ND	0.0250	mg/kg wet				
Toluene	ND	0.0250	n				
Ethylbenzene	ND	0.0250	n				
Xylene (p/m)	ND	0.0250	"				
Xylene (0)	ND	0.0250	**				
Surrogate: a,a,a-Trifluorotoluene	37.5		ug/kg	40.0	93.8	80-120	
Surrogate: 4-Bromofluorobenzene	34.5		"	40.0	86.2	80-120	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

Environmental Lab of Texas

<u></u>										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EC62103 - EPA 5030C (GC)

Datell ECOPIOS - EI A SOSOC (OC)										
LCS (EC62103-BS1)				Prepared: 0	3/20/06 A	nalyzed: 03	3/21/06			
Benzene	1.03	0.0250	mg/kg wet	1.25	***	82.4	80-120			
Toluene	1.17	0.0250	u	1.25		93.6	80-120			
Ethylbenzene	1.31	0.0250	u	1.25		105	80-120			
Xylene (p/m)	2.66	0.0250	"	2.50		106	80-120			
Xylene (0)	1.31	0.0250	"	1.25		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.9		ug/kg	40.0		92.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.6		"	40.0		89.0	80-120			
Calibration Check (EC62103-CCV1)				Prepared: 0	3/20/06 A	nalyzed: 03	3/22/06			
Benzene	41.2		ug/kg	50.0		82.4	80-120			
Foluene	44.3		n	50.0		88.6	80-120			
Ethylbenzene	48.6		n	50.0		97.2	80-120			
Xylene (p/m)	100		"	100		100	80-120			
Xylene (o)	50.4		**	50.0		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.2		"	40.0		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	37.4		"	40.0		93.5	80-120			
Matrix Spike (EC62103-MS1)	Sour	ce: 6C16015	5-01	Prepared: 0	3/20/06 A	nalyzed: 03	3/21/06			
Benzene	1.18	0.0250	mg/kg dry	1.42	ND	83.1	80-120			
Toluene	1.34	0.0250	n	1.42	ND	94.4	80-120			
Ethylbenzene	1.53	0.0250	"	1.42	ND	108	80-120			
Xylene (p/m)	3.10	0.0250	"	2.84	ND	109	80-120			
Xylene (0)	1.54	0.0250	n	1.42	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.4		ug/kg	40.0		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	41.5		"	40.0		104	80-120			
Matrix Spike Dup (EC62103-MSD1)	Sour	ce: 6C16015	5-01	Prepared: 0	3/20/06 A	nalyzed: 03	3/21/06			
Benzene	1.17	0.0250	mg/kg dry	1.42	ND	82.4	80-120	0.846	20	
Toluene	1.33	0.0250	11	1.42	ND	93.7	80-120	0.744	20	
Ethylbenzene	1.51	0.0250	n	1.42	ND	106	80-120	1.87	20	
Xylene (p/m)	3.07	0.0250	"	2.84	ND	108	80-120	0.922	20	
Xylene (o)	1.52	0.0250	"	1.42	ND	107	80-120	0.930	20	
Surrogate: a,a,a-Trifluorotoluene	37.0		ug/kg	40.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene										

ſ	Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
	Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/23/06 16:49

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC61702 - General Preparation (Prep)										
Blank (EC61702-BLK1)				Prepared: ()3/16/06 A	Analyzed: 03	/17/06			
% Solids	99.9		%					<u></u>		
Duplicate (EC61702-DUP1)	Sou	rce: 6C15014-	01	Prepared: ()3/16/06 A	Analyzed: 03	/17/06			
% Solids	97.9		%		97.5			0.409	20	
Duplicate (EC61702-DUP2)	Sou	rce: 6C16004-	14	Prepared: ()3/16/06 A	Analyzed: 03	/17/06			
% Solids	91.7		%		91.6			0.109	20	
Duplicate (EC61702-DUP3)	Sou	rce: 6C16013-	02	Prepared: ()3/16/06 A	Analyzed: 03	/17/06			
% Solids	98.3		%		97.9			0.408	20	
Batch EC62001 - Water Extraction										
Blank (EC62001-BLK1)				Prepared: ()3/17/06 A	Analyzed: 03	/20/06			
Chloride	ND	0.500	mg/kg							
LCS (EC62001-BS1)				Prepared: ()3/1 7 /06 A	Analyzed: 03	/20/06			
Chloride	8.53		mg/L	10.0		85.3	80-120			
Calibration Check (EC62001-CCV1)				Prepared: ()3/17/06 <i>A</i>	Analyzed: 03	/20/06			
Chloride	8.81		mg/L	10.0		88.1	80-120			
Duplicate (EC62001-DUP1)	Sou	rce: 6C16019-	06	Prepared: ()3/1 7 /06 A	Analyzed: 03	/20/06			
Chloride	159	10.0	mg/kg		160			0.627	20	

Environmental Lab of Texas

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/23/06 16:49

Notes and Definitions

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 Junits

3/23/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist 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

TAT brebnat2 DO # PHA/C. REYNOL DS eluberio2-erg) TAT H8US Project Name: NORTH HOBBS 8-JNCH Project #: SRS: 2006-059 CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST 0 Q emmeð leto Project Loc: LER COUNTY .M.A.O. 13 emperature Upon Receipt Sample Containers Intact the gues 2/16/9 Analyze Fol aboratory Comments: BTEX 80218/5030 69(DB(OVIM)) semeio, es pH dq to bo sa pA aA TOLP DED / deal / MARS DIAL Vuious CI 204' CO3' HCO3 (H, eM, (BM, IBC) anothe 21/0/0/0/0/1/5 as per attacing 3/5/66 1600 Time 1001 5001 (NELOS), 1'817 Hd. Cilver (ebecuh): 105 Matri Shdge Nater Fax No: (505) 396-1429 Officer (Specify) + Add C1- 03-16-06 anon 'OS^zH Preservat HOPN ЮH *ONH 60 Vo. of Containers 1245 5 1017 1039 1012 1241 1252 1821 1259 1006 belqme2 emiT 60 by ELOT 0 <u> 13 n A R</u> 2006 Received by: CHVISHAMIZU: LOVINGTON, NM 88360 beigmeS eteQ company Name BASIN ENV. SVCS. 0.00 1680 Time Phone: 915-563-1800 Fax: 915-563-1713 Company Address: P. O. BOX 301 Teliaphone No: (5 \$5) 442, 2124 Project Manager. KEN DUTTON SMAROL Date FIELD CODE Ń 5 5 45 5 35 N N 3 S à 1 2 **I** 2 5 MW-2 MW-2 MW-HW-HW-MW-HW-HW-- MM HW -Sampler Signature: 12600 West I-20 East Odessa, Texas 79763 special instructions: VB # (hab use only) han B 99 6 U Q 20 iduished by Ó 9

28 40 Ø.

Environmental Lab of Texas I, Ltd.

, Ltď.	
Lab of Texas I	Phone: 915-563-1800
Environmental L	2600 West I-20 East

Fax: 915-663-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

\$2 0 PB

Project Name: NORTH HOBBS 8-INCH Project #: SRS: 2006-059 Project Loc: LEP COUNTY, N 1 Fax No: (505)396-1429 LOVINGTON NM 88260 BASIN ENV. SUCS <u>UMTTBN</u> BOX 301 Telephone No: (5 05) 441-2124 KEN 2.0 Project Manager: Company Address: Company Name City/State/Zip: Sampler Signature: Odessa, Texas 79763

PO# PHA/C. REYNOLDS

Analyze

-ToLe

TAT bisbriet2 X eluberio2-eng) TAT HEUS z emmeð letoT .M.A.O.I SCI emperature Upon Receipt Sample Containers Intact? aboratory Comments BLEX 8051B/2030 sauteio/ As Ag Ba Cd Cr Pb Hg Se stelət TOTAL SAR / ESP / CEC Anions (Cl, SO4, CO3, HCO3) (X , BN , BM , 6.0) anoile: 00:01 00/0/1/k 160 1001 (WS108) 1.814 Ha 1009 Officer (specify): lios Vatri Studge WHERE Officer (Specify) anoN 'OS^zH HOPN 10H ^tONH 801 ever leve No. of Containers 13 05 0126 0912. 0 7 00 0903 <u>6851</u> 6119 131(Delqms2 emlT 13 NRP 13 NAR 2006 IH MAR Received by: belgme2 ets0 Time 2685 S MARBUL Date FIELD CODE ñ 45' 3 S' in S si s S S 4 5 3 2 1 N HW-2 M 10-3 NW- 3 m 22 MW--074 - 114 - OFU MW 1 Cleock Special Instructions: AB # (lab use only) Inquished Ţ 0

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

Client:	Basin	Env.	Plains

Date/Time: 3/16/06 10:00

Order #: 60160

Initials: _____CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1,0 01
Shipping container/cooler in good condition?	(tes)	No	
Custody Seals intact on shipping container/cooler?	03	No	Not present
Custody Seals intact on sample bottles?	XES	No	Not present
Chain of custody present?	Yes !	No	
Sample Instructions complete on Chain of Custody?		No	
Chain of Custody signed when relinguished and received?	1 XES	No	
Chain of custody agrees with sample label(s)	KES I	No	
Container lacets legible and intact?	800 1	No	
Sample Matrix and properties same as on chain of custody?	100	No	· ·······
Samples in proper container/bottle?	Yes	No	· · · ·
Samples properly preserved?	235	No	
Sample bottles intact?		No	
Preservations documented on Chain of Custody?	1 200	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Xes	No	
All samples received within sufficient hold time?	200	No	
VOC samples have zero headspace?	632	No	Nct Applicable

Other observations:

Contact Person: Regarding:	Variance Documentation: Date/Time:	_ Contacted by:
Corrective Action Taken:		<u>.</u>

Jeanne McMurrey

From:	"Ken Dutton" <kdutton@basinenv.com></kdutton@basinenv.com>
To:	"Jeanne" <jeanne@elabtexas.com></jeanne@elabtexas.com>
Sent:	Thursday, March 16, 2006 10:50 AM
Subject:	COC, North Hobbs 8-Inch

Jeanne,

Plz add a chloride analysis for the MW-1, 15 feet soil sample, EPA Method 300.1, for the North Hobbs 8-Inch site.

thxs

Ken

--

This message has been scanned for viruses and dangerous content by Basin Broadband, and is believed to be clean.



Analytical Report

Prepared for:

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

Project: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea. County, NM

Lab Order Number: 6C09010

Report Date: 03/14/06

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/14/06 09:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 5'	6C09010-01	Soil	03/08/06 12:45	03/09/06 11:40
SB-1 10'	6C09010-02	Soil	03/08/06 12:47	03/09/06 11:40
SB-1 15'	6C09010-03	Soil	03/08/06 12:50	03/09/06 11:40
SB-1 20'	6C09010-04	Soil	03/08/06 12:56	03/09/06 11:40
SB-1 25'	6C09010-0 5	Soil	03/08/06 13:20	03/09/06 11:40

	Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
1	Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/14/06 09:49

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 5' (6C09010-01) Soil						· · · · · · · · · · · · · · · · · · ·			
Benzene	0.0617	0.0250	mg/kg dry	25	EC61010	03/10/06	03/13/06	EPA 8021B	
Toluene	0.832	0.0250	н	"	п	11		"	
Ethylbenzene	1.79	0.0250	11	"	11	н	H	"	
Xylene (p/m)	5.09	0.0250	"	"	"	"		*	
Xylene (0)	0.327	0.0250	"	"	"	и	n	**	
Surrogate: a,a,a-Trifluorotoluene		161 %	80-1	20	"	"	Π		S-0
Surrogate: 4-Bromofluorobenzene		196 %	80-1.	20	"	"	"	"	S-0
Carbon Ranges C6-C12	815	20.0	mg/kg dry	2	EC60920	03/09/06	03/11/06	EPA 8015M	
Carbon Ranges C12-C28	2720	20.0	"		"	99	n	*1	
Carbon Ranges C28-C35	678	20.0		"	"	**	n		
Total Hydrocarbon C6-C35	4210	20.0	"		n	**	n	•	
Surrogate: 1-Chlorooctane		42.8 %	70-1	30	"	"	и	"	S-0
Surrogate: 1-Chlorooctadecane		40.4 %	70-1	30	"	"	"	n	S-0
SB-1 10' (6C09010-02) Soil									
Benzene	0.0457	0.0250	mg/kg dry	25	EC61010	03/10/06	03/13/06	EPA 8021B	
Toluene	0.606	0.0250	n	"		"	"	'n	
Ethylbenzene	1.03	0.0250	"	"		n	п	11	
Xylene (p/m)	2.07	0.0250	"	"		"	u	11	
Xylene (o)	0.684	0.0250	u	"	•	n	"	ч	
Surrogate: a,a,a-Trifluorotoluene		137 %	80-1	20	17	"	"	"	S-0
Surrogate: 4-Bromofluorobenzene		207 %	80-1	20	"	"	"	"	<i>S-0</i>
Carbon Ranges C6-C12	921	20.0	mg/kg dry	2	EC60920	03/09/06	03/11/06	EPA 8015M	
Carbon Ranges C12-C28	3460	20.0		u	u	81	**	11	
Carbon Ranges C28-C35	842	20.0	17			"	**	"	
Total Hydrocarbon C6-C35	5220	20.0	"	U		"	11		
Surrogate: 1-Chlorooctane		45.0 %	70-1	30	"	"	"	"	S-0
Surrogate: 1-Chlorooctadecane		38.0 %	70-1	30	"	"	"	"	S-0
SB-1 15' (6C09010-03) Soil									
Benzene	0.0335	0.0250	mg/kg dry	25	EC61010	03/10/06	03/13/06	EPA 8021B	
Toluene	0.178	0.0250	"	"	n	"	*		
Ethylbenzene	0.342	0.0250		n	u	н	*	"	
Xylene (p/m)	0.611	0.0250	*			"	N	"	
Xylene (0)	0.144	0.0250	**	n	н	n	n	*	
Surrogate: a, a, a-Trifluorotoluene		103 %	80-1	20	"	"	"	17	
Surrogate: 4-Bromofluorobenzene		118 %	80-1	20	"	"	"	"	
	199		mg/kg dry				03/11/06	EPA 8015M	

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.

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/14/06 09:49

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilatio	Det-t	Deens	A	Math - 1	¥7
SB-1 15' (6C09010-03) Soil	ive2011		Cuits	Dilution	Batch	Prepared	Analyzed	Method	Not
· · · · · · · · · · · · · · · · · · ·									
Carbon Ranges C12-C28	1270	10.0	mg/kg dry	1	EC60920	03/09/06	03/11/06	EPA 8015M	
Carbon Ranges C28-C35	352	10.0	17	"	"	"	"	11	
Total Hydrocarbon C6-C35	1820	10.0	P	**		"		"	
Surrogate: 1-Chlorooctane		71.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		77. 2 %	70-1	30	"	"	"	"	
SB-1 20' (6C09010-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61010	03/10/06	03/13/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	**	19	
Ethylbenzene	0.0818	0.0250	м		"	11	"		
Xylene (p/m)	0.149	0.0250	n	**		ti	11	n	
Xylene (0)	ND	0.0250	11	"	"	n	п	14	
Surrogate: a,a,a-Trifluorotoluene		91.5 %	80-1	20	"	n	"	"	
Surrogate: 4-Bromofluorobenzene		88. 5 %	80-1	20	"	"	"	17	
Carbon Ranges C6-C12	11.8	10.0	mg/kg dry	1	EC60920	03/09/06	03/11/06	EPA 8015M	
Carbon Ranges C12-C28	152	10.0	11	"	н	"	"	"	
Carbon Ranges C28-C35	94.3	10.0	"	n	P	n	"	11	
Total Hydrocarbon C6-C35	258	10.0	*	n	"	п	n	11	
Surrogate: 1-Chlorooctane		71.0 %	70-1	30	"	#	"	"	
Surrogate: 1-Chlorooctadecane		72.0 %	70-1	30	"	n	"	"	
SB-1 25' (6C09010-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC61010	03/10/06	03/13/06	EPA 8021B	
Toluene	ND	0.0250	**	"	"	"	11	*	
Ethylbenzene	0.0830	0.0250	"	۳	"	"	н	ta	
Xylene (p/m)	0.152	0.0250	u	**		n	n	u	
Xylene (0)	ND	0.0250	"	"	Ħ	11	۳	"	
Surrogate: a,a,a-Trifluorotoluene		93.0 %		20	"	n	n	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-1	20	"	"	"	"	
Carbon Ranges C6-C12	22.6	10.0	mg/kg dry	1	EC60920	03/09/06	03/11/06	EPA 8015M	
Carbon Ranges C12-C28	308	10.0	"	*	•	п	"		
Carbon Ranges C28-C35	134	10.0	"	n		"	u		
Total Hydrocarbon C6-C35	465	10.0	"	11	n	"	•	u	
Surrogate: 1-Chlorooctane		70.4 %	70-1	30	"	"	"	n	
Surrogate: 1-Chlorooctadecane		73.0 %	70-1	30	"	"	"	"	

Environmental Lab of Texas

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
· · · · · · · · · · · · · · · · · · ·								
3.3	0.1	%	1	EC61008	03/09/06	03/10/06	% calculation	
2.2	0.1	%	1	EC61008	03/09/06	03/10/06	% calculation	
1.0	0.1	%	1	EC61008	03/09/06	03/10/06	% calculation	
0.9	0.1	%	1	EC61008	03/09/06	03/10/06	% calculation	
0.6	0.1	%	1	EC61008	03/09/06	03/10/06	% calculation	
	3.3 2.2 1.0 0.9	Result Limit 3.3 0.1 2.2 0.1 1.0 0.1 0.9 0.1	Result Limit Units 3.3 0.1 % 2.2 0.1 % 1.0 0.1 % 0.9 0.1 %	Result Limit Units Dilution 3.3 0.1 % 1 2.2 0.1 % 1 1.0 0.1 % 1 0.9 0.1 % 1	Result Limit Units Dilution Batch 3.3 0.1 % 1 EC61008 2.2 0.1 % 1 EC61008 1.0 0.1 % 1 EC61008 0.9 0.1 % 1 EC61008	Result Limit Units Dilution Batch Prepared 3.3 0.1 % 1 EC61008 03/09/06 2.2 0.1 % 1 EC61008 03/09/06 1.0 0.1 % 1 EC61008 03/09/06 0.9 0.1 % 1 EC61008 03/09/06	Result Limit Units Dilution Batch Prepared Analyzed 3.3 0.1 % 1 EC61008 03/09/06 03/10/06 2.2 0.1 % 1 EC61008 03/09/06 03/10/06 1.0 0.1 % 1 EC61008 03/09/06 03/10/06 0.9 0.1 % 1 EC61008 03/09/06 03/10/06	Result Limit Units Dilution Batch Prepared Analyzed Method 3.3 0.1 % 1 EC61008 03/09/06 03/10/06 % calculation 2.2 0.1 % 1 EC61008 03/09/06 03/10/06 % calculation 1.0 0.1 % 1 EC61008 03/09/06 03/10/06 % calculation 0.9 0.1 % 1 EC61008 03/09/06 03/10/06 % calculation

Environmental Lab of Texas

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/14/06 09:49

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC60920 - Solvent Extraction (GC)	<u> </u>									
Blank (EC60920-BLK1)				Prepared: (03/09/06 A	nalyzed: 03	/10/06			
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	62.3		mg/kg	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	63.8		"	50.0		128	70-130			
LCS (EC60920-BS1)				Prepared: (03/09/06 A	analyzed: 03	3/10/06			
Carbon Ranges C6-C12	524	10.0	mg/kg wet	500		105	75-125			
Carbon Ranges C12-C28	511	10.0	"	500		102	75-125			
Total Hydrocarbon C6-C35	1040	10.0	n	1000		104	75-125			
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	51.1		"	50.0		102	70-130			
Calibration Check (EC60920-CCV1)				Prepared:	03/09/06 A	analyzed: 03	8/11/06			
Carbon Ranges C6-C12	256		mg/kg	250		102	80-120			
Carbon Ranges C12-C28	286		н	250		114	80-120			
Total Hydrocarbon C6-C35	542		п	500		108	80-120			
Surrogate: 1-Chlorooctane	56.6		"	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	58.7		"	50.0		117	70-130			
Matrix Spike (EC60920-MS1)	Sou	irce: 6C09007	7-01	Prepared:	03/09/06 A	analyzed: 03	3/10/06			
Carbon Ranges C6-C12	543	10.0	mg/kg dry	548	ND	99.1	75-125			
Carbon Ranges C12-C28	484	10.0	ч	548	ND	88.3	75-125			
Total Hydrocarbon C6-C35	1030	10.0	n	1100	ND	93.6	75-125			
Surrogate: 1-Chlorooctane	38.2		mg/kg	50.0		76.4	70-130			
Surrogate: 1-Chlorooctadecane	36.1		"	50.0		72.2	70-130			

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/14/06 09:49

Environmental Lab of Texas

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

Batch EC60920 - Solvent Extraction (GC)

Matrix Spike Dup (EC60920-MSD1)	Sourc	e: 6C09007	7-01	Prepared: 0	3/09/06 A	nalyzed: 03	3/10/06		
Carbon Ranges C6-C12	529	10.0	mg/kg dry	548	ND	96.5	75-125	2.61	20
Carbon Ranges C12-C28	474	10.0	"	548	ND	86.5	75-125	2.09	20
Total Hydrocarbon C6-C35	1000	10.0	**	1100	ND	90.9	75-125	2.96	20
Surrogate: 1-Chlorooctane	37.4		mg/kg	50.0		74.8	70-130		
Surrogate: 1-Chlorooctadecane	35.3		"	50.0		70.6	70-130		

Batch EC61010 - EPA 5030C (GC)

Blank (EC61010-BLK1)				Prepared & Ana	lyzed: 03/10/06	
Benzene	ND	0.0250	mg/kg wet			
Toluene	ND	0.0250	"			
Ethylbenzene	ND	0.0250	**			
Xylene (p/m)	ND	0.0250	"			
Xylene (0)	ND	0.0250				
Surrogate: a,a,a-Trifluorotoluene	37.5		ug/kg	40.0	93.8	80-120
Surrogate: 4-Bromofluorobenzene	33.4		"	40.0	83.5	80-120
LCS (EC61010-BS1)				Prepared & Ana	lyzed: 03/10/06	
Benzene	1.09	0.0250	mg/kg wet	1.25	87.2	80-120
Toluene	1.22	0.0250	π	1.25	97.6	80-120
Ethylbenzene	1.35	0.0250	*	1.25	108	80-120
Xylene (p/m)	2.82	0.0250	*	2.50	113	80-120
Xylene (0)	1.37	0.0250	"	1.25	110	80-120
Surrogate: a,a,a-Trifluorotoluene	39.2		ug/kg	40.0	98.0	80-120
Surrogate: 4-Bromofluorobenzene	33.6		"	40.0	84.0	80-120
Calibration Check (EC61010-CCV1)				Prepared: 03/10/	06 Analyzed: 03	3/13/06
Benzene	44.0		ug/kg	50.0	88.0	80-120
Toluene	50.4			50.0	101	80-120
Ethylbenzene	58.0		"	50.0	116	80-120
Xylene (p/m)	120			100	120	80-120
Xylene (o)	58.7		"	50.0	117	80-120
Surrogate: a,a,a-Trifluorotoluene	39.1		"	40.0	97.8	80-120

40.0

41.7

Surrogate: 4-Bromofluorobenzene

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.

104

80-120

- (E (100) (05 1011
	Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
	Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/14/06 09:49

Environmental Lab of Texas

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

Batch EC61010 - EPA 5030C (GC)

Matrix Spike (EC61010-MS1)	Sour	ce: 6C06009	9-09	Prepared: 0	3/10/06 A	nalyzed: 03	3/13/06			
Benzene	1.12	0.0250	mg/kg dry	1.28	ND	87.5	80-120			
Toluene	1.26	0.0250	*	1.28	ND	98.4	80-120			
Ethylbenzene	1.41	0.0250	"	1.28	ND	110	80-120			
Xylene (p/m)	2.94	0.0250	"	2.56	ND	115	80-120			
Xylene (0)	1.44	0.0250	"	1.28	ND	112	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.7	· · · · · · · · · · · · · · · · · · ·	ug/kg	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	36.0		"	40.0		90.0	80-120			
Matrix Spike Dup (EC61010-MSD1)	Sour	ce: 6C06009)-0 9	Prepared: 0	3/10/06 A	nalyzed: 0.	3/13/06			
Benzene	1.19	0.0250	mg/kg dry	1.28	ND	93.0	80-120	6.09	20	
Toluene	1.36	0.0250	"	1.28	ND	106	80-120	7.44	20	
Ethylbenzene	1.52	0.0250	"	1.28	ND	119	80-120	7.86	20	
Xylene (p/m)	3.07	0.0250	11	2.56	ND	120	80-120	4.26	20	
Xylene (0)	1.52	0.0250	"	1.28	ND	119	80-120	6.06	20	
Surrogate: a,a,a-Trifluorotoluene	41.1		ug/kg	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	40.2		"	40.0		100	80-120			

Environmental Lab of Texas

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/14/06 09:49
 1		

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC61008 - General Preparation	on (Prep)									
Blank (EC61008-BLK1)				Prepared: 0	3/09/06 A	nalyzed: 03	/10/06			
% Solids	100		%							
Duplicate (EC61008-DUP1)	Source	: 6C03014-0)1	Prepared: 0	3/09/06 A	nalyzed: 03	/10/06			
% Solids	95.9		%		96.8			0.934	20	
Duplicate (EC61008-DUP2)	Source	: 6C03014-2	21	Prepared: 0	3/09/06 A	nalyzed: 03	/10/06			
% Solids	99.9		%		99.9			0.00	20	
Duplicate (EC61008-DUP3)	Source	: 6C08019-0)1	Prepared: 0)3/09/06 A	nalyzed: 03	/10/06			
% Solids	95.1		%		96.4			1.36	20	
Duplicate (EC61008-DUP4)	Source	: 6C09016-0	94	Prepared: 0)3/09/06 A	nalyzed: 03	/10/06			
% Solids	69.8		%	-	70.0			0.286	20	

ſ	Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
	Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/14/06 09:49

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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 Juits

Date:

3/14/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist 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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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas I, Ltd.

Phone: 915-563-1800 Fax: 915-563-1713

12800 West I-20 East Odessa, Texas 79763

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

Client: Plains 1/2

Date/Time: 03-09-06 @1140

Order #: 6009010

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(es) No	Z-0 C
Shipping container/cooler in good condition?	COS NO	
Custody Seals intact on shipping container/cooler?	NO NO	Not present
Custody Seals intact on sample bottles?	Mes No	Not present
Chain of custody present?	Ces No	
Sample Instructions complete on Chain of Custody?	NO NO	
Chain of Custody signed when relinquished and received?	NES NO	
Chain of custody agrees with sample label(s)	Xes, No	
Container labels legible and intact?	PES NO	
Sample Matrix and properties same as on chain of custody?	Xes No	
Samples in proper container/bottle?	NO NO	· ·
Samples properly preserved?	VEST NO	
Sample bottles intact?	Yes No	
Preservations documented on Chain of Custody?	Kas No	
Containers documented on Chain of Custody?	Yes/ No	
Sufficient sample amount for indicated test?	Nes No	
All samples received within sufficient hold time?	Tes/1 No	
VOC samples have zero headspace?	Yes/ No	Not Applicable

Other observations:

Contact Person: Regarding:	Variance Documentation: 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: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea County, NM

Lab Order Number: 6C09009

Report Date: 03/10/06

ſ	Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
	Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/10/06 11:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 30'	6C09009-01	Soil	03/08/06 13:30	03/09/06 11:40
SB-1 35'	6C09009-02	Soil	03/08/06 14:10	03/09/06 11:40
SB-1 40'	6C09009-03	Soil	03/08/06 14:30	03/09/06 11:40
SB-1 (W)	6C09009-04	Water	03/08/06 15:05	03/09/06 11:40

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/10/06 11:12

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-1 30' (6C09009-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC60917	03/09/06	03/09/06	EPA 8021B	
Toluene	0.0567	0.0250	м		**	n	"	n	
Ethylbenzene	0.0818	0.0250	н	"	u	"		"	
Xyiene (p/m)	0.150	0.0250	n		u	"	"	"	
Xylene (0)	ND	0.0250	"	"	19	"	"	n	
Surrogate: a,a,a-Trifluorotoluene		84.8 %	80-1	20	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	80-1	20	"	n	"	"	
Carbon Ranges C6-C12	16.6	10.0	mg/kg dry	1	EC60918	03/09/06	03/09/06	EPA 8015M	
Carbon Ranges C12-C28	201	10.0	"	"	"	"	н	"	
Carbon Ranges C28-C35	ND	10.0	п	u	*	**	"	"	
Total Hydrocarbon C6-C35	218	10.0		н	"	"	"	*	
Surrogate: 1-Chlorooctane		98.8 %	70-1	30	"	11	n	"	·
Surrogate: 1-Chlorooctadecane		107 %	70-1	30	"	"	"	"	
SB-1 35' (6C09009-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC60917	03/09/06	03/09/06	EPA 8021B	
Toluene	0.0585	0.0250	"	**	•	"	11	11	
Ethylbenzene	0.0829	0.0250	"	**			'n	"	
Xylene (p/m)	0.151	0.0250	"		а	n	"	"	
Xylene (o)	ND	0.0250	"	u	"	"	u	**	
Surrogate: a,a,a-Trifluorotoluene		88.8 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-1	20	"	"	"	#	
Carbon Ranges C6-C12	J [9.29]	10.0	mg/kg dry	1	EC60918	03/09/06	03/09/06	EPA 8015M	
Carbon Ranges C12-C28	144	10.0	n	**		n	**	n	
Carbon Ranges C28-C35	ND	10.0	"	"	*	n	16	11	
Total Hydrocarbon C6-C35	144	10.0	"		"	n	u	"	
Surrogate: 1-Chlorooctane		101 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		106 %	70-1	30	"	n	"	"	
SB-1 40' (6C09009-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC60917	03/09/06	03/09/06	EPA 8021B	
Toluene	ND	0.0250	91	"	**	"	n	п	
Ethylbenzene	ND	0.0250	н			"	**	11	
Xylene (p/m)	ND	0.0250		"	11	"	Ħ	10	
Xylene (o)	ND	0.0250	"	"	"	"	*	11	
Surrogate: a,a,a-Trifluorotoluene		84.5 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	80-1	20	n	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EC60918	03/09/06	03/09/06	EPA 8015M	
Environmental Lab of Texas				• • • •				ance with the samples	

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

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Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/10/06 11:12

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 40' (6C09009-03) Soil							· · · · · · · · · · · · · · · · · · ·		
Carbon Ranges C12-C28	ND	10.0	mg/kg dry	1	EC60918	03/09/06	03/09/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10.0	n	"	**		н	**	
Total Hydrocarbon C6-C35	ND	10.0	п	"		n	п	u	
Surrogate: 1-Chlorooctane		95.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		106 %	70-1	30	"	n	"	"	

SB-1 (W) (6C09009-04) Water

Benzene	ND	0.00100	mg/L	1	 EC60704	03/09/06	03/09/06	EPA 8021B
Toluene	ND	0.00100	H	н	"	"	"	"
Ethylbenzene	0.00335	0.00100		"	"	"	n	"
Xylene (p/m)	0.00636	0.00100	"	"	"	"	n	*
Xylene (o)	ND	0.00100	"	я		*	u	"
Surrogate: a,a,a-Trifluorotoluene		80.5 %	80-120		"	"	n	"
Surrogate: 4-Bromofluorobenzene		98.8 %	80-120		"	"	"	"

ſ	Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
	Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/10/06 11:12

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 30' (6C09009-01) Soil									
% Moisture	1.8	0.1	%	1	EC61008	03/09/06	03/10/06	% calculation	
SB-1 35' (6C09009-02) Soil									
% Moisture	3.6	0.1	%	1	EC61008	03/09/06	03/10/06	% calculation	
SB-1 40' (6C09009-03) Soil									
% Moisture	16.4	0.1	%	1	EC61008	03/09/06	03/10/06	% calculation	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/10/06 11:12

Environmental Lab of Texas

A	79te	Reporting	T Tar ¹ 4 -	Spike	Source	WEEG	%REC	DDD	RPD	NT
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC60704 - EPA 5030C (GC)										
Blank (EC60704-BLK1)				Prepared: 0	3/07/06 A	nalyzed: 03	/08/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	18							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	**							
Surrogate: a,a,a-Trifluorotoluene	37.1		ug/l	40.0		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	39.5		n	40.0		98.8	80-120			
LCS (EC60704-BS1)				Prepared: 0	3/07/06 A	nalyzed: 03	/08/06			
Benzene	0.0440	0.00100	mg/L	0.0500		88.0	80-120			
Toluene	0.0489	0.00100	n	0.0500		97.8	80-120			
Ethylbenzene	0.0569	0.00100	"	0.0500		114	80-120			
Xylene (p/m)	0.117	0.00100	"	0.100		117	80-120			
Xylene (0)	0.0590	0.00100		0.0500		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.7		ug/l	40.0		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	42.3		"	40.0		106	80-120			
Calibration Check (EC60704-CCV1)				Prepared: 0	3/07/06 A	nalyzed: 03	/09/06			
Benzene	40.1		ug/l	50.0		80.2	80-120			
Toluene	40.8			50.0		81.6	80-120			
Ethylbenzene	42.9		н	50.0		85.8	80-120			
Xylene (p/m)	88.4		н	100		88.4	80-120			
Xylene (o)	44.3		"	50.0		88.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.1		н	40.0		85.2	80-120			
Surrogate: 4-Bromofluorobenzene	32.7		"	40.0		81.8	80-120			
Matrix Spike (EC60704-MS1)	Sou	ırce: 6C03007-	06	Prepared: 0	3/07/06 A	nalyzed: 03	/09/06			
Benzene	0.0403	0.00100	mg/L	0.0500	ND	80.6	80-120			
Toluene	0.0432	0.00100	**	0.0500	ND	86.4	80-120			
Ethylbenzene	0.0464	0.00100		0.0500	ND	92.8	80-120			
Xylene (p/m)	0.0971	0.00100	"	0.100	ND	97.1	80-120			
Xylene (o)	0.0476	0.00100	n	0.0500	ND	95.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.4		ug/l	40.0		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	43.8		"	40.0		110	80-120			

Plains All American EH & S	Project: North I	Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2	2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camill	e Reynolds	03/10/06 11:12

Environmental Lab of Texas

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

Batch EC60704 - EPA 5030C (GC)

Matrix Spike Dup (EC60704-MSD1)	Source: 6C03007-06			Prepared: 0.					
Benzene	0.0433	0.00100	mg/L	0.0500	ND	86.6	80-120	7.18	20
Toluene	0.0472	0.00100	"	0.0500	ND	94.4	80-120	8.85	20
Ethylbenzene	0.0539	0.00100	"	0.0500	ND	108	80-120	15.1	20
Xylene (p/m)	0.112	0.00100	и	0.100	ND	112	80-120	14.3	20
Xylene (o)	0.0541	0.00100	ч	0.0500	ND	108	80-120	12.6	20
Surrogate: a,a,a-Trifluorotoluene	36.5		ug/l	40.0		91.2	80-120		
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120		

Batch EC60917 - EPA 5030C (GC)

Blank (EC60917-BLK1)				Prepared & Anal	lyzed: 03/09/06		
Benzene	ND	0.0250	mg/kg wet				
Toluene	ND	0.0250	н				
Ethylbenzene	ND	0.0250	н				
Xylene (p/m)	ND	0.0250	H				
Xylene (o)	ND	0.0250	н				
Surrogate: a,a,a-Trifluorotoluene	33.4		ug/kg	40.0	83.5	80-120	
Surrogate: 4-Bromofluorobenzene	33.9		"	40.0	84.8	80-120	
LCS (EC60917-BS1)				Prepared & Ana	lyzed: 03/09/06		
Benzene	1.05	0.0250	mg/kg wet	1.25	84.0	80-120	
Foluene	1.16	0.0250	n	1.25	92.8	80-120	
Ethylbenzene	1.33	0.0250		1.25	106	80-120	
Kylene (p/m)	2.77	0.0250	н	2.50	111	80-120	
Xylene (o)	1.35	0.0250	"	1.25	108	80-120	
Surrogate: a,a,a-Trifluorotoluene	33.0		ug/kg	40.0	82.5	80-120	
Surrogate: 4-Bromofluorobenzene	37.2		"	40.0	93.0	80-120	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/10/06 11:12

Environmental Lab of Texas

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

Batch EC60917 - EPA 5030C (GC)

Calibration Check (EC60917-CCV1)				Prepared: 0	3/09/06 A	nalyzed: 03	3/10/06
Benzene	43.5		ug/kg	50.0		87.0	80-120
Toluene	49.6			50.0		99.2	80-120
Ethylbenzene	56.6		"	50.0		113	80-120
Xylene (p/m)	117		"	100		117	80-120
Xylene (o)	57.6			50.0		115	80-120
Surrogate: a,a,a-Trifluorotoluene	41.3		"	40.0		103	80-120
Surrogate: 4-Bromofluorobenzene	38.4		n	40.0		96.0	80-120
Matrix Spike (EC60917-MS1)	Sour	ce: 6C06006-	04	Prepared: 0	3/09/06 A	nalyzed: 0.	3/10/06
Benzene	1.32	0.0250	mg/kg dry	1.46	ND	90.4	80-120
Toluene	1.46	0.0250	"	1.46	ND	100	80-120
Ethylbenzene	1.64	0.0250		1.46	ND	112	80-120
Xylene (p/m)	3.40	0.0250	"	2.92	ND	116	80-120
Xylene (o)	1.67	0.0250	11	1.46	ND	114	80-120
Surrogate: a,a,a-Trifluorotoluene	40.9		ug/kg	40.0		102	80-120

Matrix Spike Dup (EC60917-MSD1)	Sour	Source: 6C06006-04			3/09/06 A				
Benzene	1.32	0.0250	mg/kg dry	1.46	ND	90.4	80-120	0.00	20
Toluene	1.48	0.0250	н	1.46	ND	101	80-120	0.995	20
Ethylbenzene	1.67	0.0250	н	1.46	ND	114	80-120	1.77	20
Xylene (p/m)	3.48	0.0250	ų	2.92	ND	119	80-120	2.55	20
Xylene (o)	1.71	0.0250	н	1.46	ND	117	80-120	2.60	20
Surrogate: a,a,a-Trifluorotoluene	40.2		ug/kg	40.0		100	80-120		
Surrogate: 4-Bromofluorobenzene	41.1		"	40.0		103	80-120		

"

40.0

94.5

80-120

37.8

Batch EC60918 - Solvent Extraction (GC)

Surrogate: 4-Bromofluorobenzene

Blank (EC60918-BLK1)				Prepared & Ana	lyzed: 03/09/06		
Carbon Ranges C6-C12	ND	10.0	mg/kg wet				
Carbon Ranges C12-C28	ND	10.0	"				
Carbon Ranges C28-C35	ND	10.0	11				
Total Hydrocarbon C6-C35	ND	10.0	n				
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0	88.4	70-130	
Surrogate: 1-Chlorooctadecane	48.1		"	50.0	96.2	70-130	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/10/06 11:12

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC60918 - Solvent Extraction (GC)								·		4
LCS (EC60918-BS1)	Prepared & Analyzed: 03/09/06									
Carbon Ranges C6-C12	478	10.0	mg/kg wet	500		95.6	75-125			
Carbon Ranges C12-C28	511	10.0	"	500		102	75-125			
Total Hydrocarbon C6-C35	989	10.0	11	1000		98.9	75-125			
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	53.4		"	50.0		107	70-130			
Calibration Check (EC60918-CCV1)	Prepared: 03/09/06 Analyzed: 03/10/06									
Carbon Ranges C6-C12	221		mg/kg	250		88.4	80-120			
Carbon Ranges C12-C28	270		"	250		108	80-120			
Total Hydrocarbon C6-C35	491		u	500		98.2	80-120			
Surrogate: 1-Chlorooctane	57.3		n	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	58.6		"	50.0		117	70-1 3 0			
Matrix Spike (EC60918-MS1)	Sou	irce: 6C06009	-11	Prepared 8	2 Analyzed	: 03/09/06				
Carbon Ranges C6-C12	580	10.0	mg/kg dry	504	ND	115	75-125			
Carbon Ranges C12-C28	592	10.0	"	504	ND	117	75-125			
Total Hydrocarbon C6-C35	1170	10.0	**	1010	ND	116	75-125			
Surrogate: 1-Chlorooctane	64.0		mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	63.1		"	50.0		126	70-130			
Matrix Spike Dup (EC60918-MSD1)	Source: 6C06009-11		Prepared & Analyzed: 03/09/06							
Carbon Ranges C6-C12	588	10.0	mg/kg dry	504	ND	117	75-125	1.37	20	
Carbon Ranges C12-C28	524	10.0	u	504	ND	104	75-125	12.2	20	
Total Hydrocarbon C6-C35	1110	10.0	n	1010	ND	110	75-125	5.26	20	
Surrogate: 1-Chlorooctane	64.1		mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	65.0		"	50.0		130	70-130			

Environmental Lab of Texas

ſ	Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
	1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
	Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/10/06 11:12

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC61008 - General Preparation	(Prep)									
Blank (EC61008-BLK1)				Prepared: 0	red: 03/09/06 Analyzed: 03/10/06					
% Solids	100		%							
Duplicate (EC61008-DUP1)	Source	Source: 6C03014-01		Prepared: 03/09/06 Analyzed: 03/10/06			/10/06			
% Solids	95.9		%		96.8			0.934	20	
Duplicate (EC61008-DUP2)	Sourc	Source: 6C03014-21		Prepared: 03/09/06 Analyzed: 03/10/06			/10/06			
% Solids	99.9		%		99.9			0.00	20	
Duplicate (EC61008-DUP3)	Sourc	Source: 6C08019-01		Prepared: 03/09/06 Analyzed: 03/10/06			/10/06			
% Solids	95.1		%		96.4			1.36	20	
Duplicate (EC61008-DUP4)	Sour	Source: 6C09016-04		Prepared: 0	Prepared: 03/09/06 Analyzed: 03/10/06					
% Solids	69.8		%		70.0			0.286	20	
Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914								
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1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:								
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/10/06 11:12								

Notes and Definitions

- 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

Raland K. Junits 3/10/2006 Report Approved By: Date:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist 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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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas I, Ltd. 12600 West 1-20 East Odessa, Texas 79763 Fax: 915-663-1713

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

Client: Plains P/L

Date/Time: 03-09-04 @ 1140

Order #: 6009009

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	z.D	С
Shipping container/cooler in good condition?	Yes	No		
Custody Seals intact on shipping container/cooler?	(Ves)	No 1	Not preser	t
Custody Seals intact on sample bottles?	Yes	No	Not preser	it –
Chain of custody present?	(res)	No		
Sample Instructions complete on Chain of Custody?	(Yes)	No		
Chain of Custody signed when relinquished and received?	TESI	No		
Chain of custody agrees with sample label(s)	(Yes)	No		
Container labels legible and intact?	(res)	No	· · · · · · · · · · · · · · · · · · ·	
Sample Matrix and properties same as on chain of custody?	(Yes)	No		
Samples in proper container/bottle?	REST	No		•
Samples properly preserved?	Res	No		
Sample bottles intact?	GES	No		
Preservations documented on Chain of Custody?	Ves	No		
Containers documented on Chain of Custody?	Cresi	No		
Sufficient sample amount for indicated test?	Vesi	No	1	
All samples received within sufficient hold time?	Ves	No		• • • • • •
VOC samples have zero headspace?	(Yes)	No	Not Apolica	ble

Other observations:

Variance Documentation:

Centact Person: -____ Date/Time: ____ Contacted by: _____ Regarding: _____ Corrective Action Taken: ______



Analytical Report

Prepared for:

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

Project: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea County, NM

Lab Order Number: 6B28010

Report Date: 03/02/06

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/02/06 14:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor@ 30'	6B28010-01	Soil	02/28/06 09:30	02/28/06 14:20
East Wall	6B28010-02	Soil	02/28/06 10:10	02/28/06 14:20
South Wall	6 B28 010-03	Soil	02/28/06 09:45	02/28/06 14:20
West Wall	6B28010-04	Soil	02/28/06 09:55	02/28/06 14:20

Plains A	ll American ÈH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S.	County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland	TX, 79706-4476	Project Manager:	Camille Reynolds	03/02/06 14:53

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Floor@ 30' (6B28010-01) Soil									
Carbon Ranges C6-C12	96.5	10.0	mg/kg dry	1	EB62414	03/02/06	03/02/06	EPA 8015M	
Carbon Ranges C12-C28	703	10.0	"	*	"	"	*	4	
Carbon Ranges C28-C35	170	10.0	"	"	"		**	n	
Total Hydrocarbon C6-C35	970	10.0	"	н	n	"	*	n	
Surrogate: 1-Chlorooctane		107 %	70-1.	30	"	n	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-1.	30	"	"	n	м	
East Wall (6B28010-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	E B62414	03/02/06	03/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0		**		**	"	*	
Carbon Ranges C28-C35	ND	10.0	н		**	**	н	"	
Total Hydrocarbon C6-C35	ND	10.0	n	u	"		"	11	
Surrogate: 1-Chlorooctane		98.4 %	70-1.	30	#	n	n	"	
Surrogate: 1-Chlorooctadecane		102 %	70-1.	30	"	п	11	"	
South Wall (6B28010-03) Soil									_
Carbon Ranges C6-C12	22.0	10.0	mg/kg dry	1	EB62414	03/02/06	03/02/06	EPA 8015M	
Carbon Ranges C12-C28	644	10.0	"	"	*	"	Ħ	"	
Carbon Ranges C28-C35	243	10.0	n	"		**	"	"	
Total Hydrocarbon C6-C35	909	10.0	н	н	"	H	**	n	
Surrogate: 1-Chlorooctane		101 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-1.	30	"	"	**	*	
West Wall (6B28010-04) Soil									
Carbon Ranges C6-C12	107	10.0	mg/kg dry	1	EB62414	03/02/06	03/02/06	EPA 8015M	
Carbon Ranges C12-C28	1150	10.0	u	"	"	"	11	R	
Carbon Ranges C28-C35	275	10.0	"	н	n	*		п	
Total Hydrocarbon C6-C35	1530	10.0	"	n		u	*	n	
Surrogate: 1-Chlorooctane		97.4 %	70-1.	30	"	11	"	"	
Surrogate: 1-Chlorooctadecane		104 %	70-1.	30	"	"	"	"	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/02/06 14:53

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Floor@ 30' (6B28010-01) Soil									
% Moisture	5.4	0.1	%	1	EC60101	02/28/06	03/01/06	% calculation	
East Wall (6B28010-02) Soil									
% Moisture	9.6	0.1	%	1	EC60101	02/28/06	03/01/06	% calculation	
South Wall (6B28010-03) Soil									
% Moisture	5.7	0.1	%	1	EC60101	02/28/06	03/01/06	% calculation	
West Wall (6B28010-04) Soil									
% Moisture	7.5	0.1	%	1	EC60101	02/28/06	03/01/06	% calculation	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/02/06 14:53

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62414 - Solvent Extraction (GC)										
Blank (EB62414-BLK1)				Prepared: (02/24/06 A	nalyzed: 03	/01/06			
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	**							
Carbon Ranges C28-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0	н							
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	70-130			
Surrogate: 1-Chlorooctadecane	45.9		"	50.0		91.8	70-130			
LCS (EB62414-BS1)				Prepared: (02/24/06 A	nalyzed: 03	6/01/06			
Carbon Ranges C6-C12	514	10.0	mg/kg wet	500		103	75-125			
Carbon Ranges C12-C28	496	10.0	n	500		99.2	75-125			
Carbon Ranges C28-C35	ND	10.0	n	0.00			75-125			
Surrogate: 1-Chlorooctane	59.7		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	56.5		"	50.0		113	70-130			
Calibration Check (EB62414-CCV1)				Prepared: (02/24/06 A	nalyzed: 03	/02/06			
Carbon Ranges C6-C12	233		mg/kg	250		93.2	80-120			
Carbon Ranges C12-C28	265		"	250		106	80-120			
Total Hydrocarbon C6-C35	498		"	500		99.6	80-120			
Surrogate: 1-Chlorooctane	53.6		"	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	54.2		"	50.0		108	70-130			
Matrix Spike (EB62414-MS1)	Sou	irce: 6B23027	7-01	Prepared: (02/24/06 A	nalyzed: 03	/02/06			
Carbon Ranges C6-C12	594	10.0	mg/kg dry	530	ND	112	75-125			
Carbon Ranges C12-C28	636	10.0	"	530	102	101	75-125			
Carbon Ranges C28-C35	38.6	10.0	"	0.00	82.9		75-125			
Total Hydrocarbon C6-C35	1270	10.0	n	1060	185	102	75-125			
Surrogate: 1-Chlorooctane	60.7		mg/kg	50.0		121	70-130			
Surrogate: 1-Chlorooctadecane	59.0		"	50.0		118	70-130			

Environmental Lab of Texas

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/02/06 14:53

Environmental Lab of Texas

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

Batch EB62414 - Solvent Extraction (GC)

Matrix Spike Dup (EB62414-MSD1)	Sourc	e: 6B23027	/-01	Prepared: 0)2/24/06 A	nalyzed: 0	3/02/06		
Carbon Ranges C6-C12	591	10.0	mg/kg dry	530	ND	112	75-125	0.506	20
Carbon Ranges C12-C28	628	10.0	"	530	102	99.2	75-125	1.27	20
Carbon Ranges C28-C35	44.8	10.0	"	0.00	82.9		75-125	14.9	20
Total Hydrocarbon C6-C35	1260	10.0	"	1060	185	101	75-125	0.791	20
Surrogate: 1-Chlorooctane	60.6		mg/kg	50.0		121	70-130		
Surrogate: 1-Chlorooctadecane	58.0		"	50.0		116	70-130		

Environmental Lab of Texas

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/02/06 14:53

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC60101 - General Preparation (Prep)										
Blank (EC60101-BLK1)				Prepared: (2/28/06 A	nalyzed: 03	/01/06			
% Solids	100		%							
Duplicate (EC60101-DUP1)	Sourc	e: 6B28005-(01	Prepared: (2/28/06 A	nalyzed: 03	/01/06			
% Solids	79.6		%		81.9			2.85	20	
Duplicate (EC60101-DUP2)	Sourc	e: 6B28014-	06	Prepared: (2/28/06 A	nalyzed: 03	/01/06			
% Solids	86.5		%	· ·	86.0	·····		0.580	20	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/02/06 14:53

Notes and Definitions

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 Juli

3/2/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist 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 12800 West 1-20 East Odessa, Texas 79763 Fax: 915-663-1800											Ð	AB.# (lab.use-only)	1	N	M								Bpecial Instructions:	Relinquished by	DE. D. Mult. Relinquished by:	- SWID	Ţ
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client:	Plains	
Date/Time:	2/28/06 14:20	
Order #:	10B2-8010	
Initials:	CK	

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.5 C
Shipping container/cooler in good condition?	des .	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?	YER.	No	
Chain of Custody signed when relinguished and received?	83	No	
Chain of custody agrees with sample label(s)	Ves	No	
Container labels legible and intact?	des.	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	1 23	No	······································
Samples properly preserved?	XES	No	
Sample bottles intact?	1653	No	
Preservations documented on Chain of Custody?	1 2000	No	
Containers documented on Chain of Custody?	825	No	
Sufficient sample amount for indicated test?	1000	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	YES	No	Not Apolicable

Other observations:

Contact Person: Regarding:	Variance Documentation: 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: North Hobbs 8" Project Number: SRS: 2006-059 Location: Lea County, NM

Lab Order Number: 6B27013

Report Date: 03/06/06

	Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1:	1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
1	Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/06/06 11:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1	6B27013-01	Soil	02/24/06 10:00	02/24/06 17:30

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/06/06 11:35

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP 1 (6B27013-01) Soil									
Benzene	0.0494	0.0250	mg/kg dry	25	EC60202	03/02/06	03/02/06	EPA 8021B	
Toluene	0.954	0.0250	**	"	"	n			
Ethylbenzene	2.31	0.0250		"		п	19	"	
Xylene (p/m)	5.19	0.0250	n			n	"	'n	
Xylene (0)	1.12	0.0250	n	"		"	*	'n	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-1	20	"	"	"	п	
Surrogate: 4-Bromofluorobenzene		126 %	80-1	20	"	"	"	Ħ	S-0
Carbon Ranges C6-C12	217	10.0	mg/kg dry	1	EC60206	03/02/06	03/02/06	EPA 8015M	
Carbon Ranges C12-C28	790	10.0	11	"	n	n		"	
Carbon Ranges C28-C35	107	10.0	н	n	*	"	11	"	
Total Hydrocarbon C6-C35	1110	10.0	"		u	u	"	n	
Surrogate: 1-Chlorooctane		122 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		123 %	70-1	30	"	"	"	"	

Environmental Lab of Texas

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/06/06 11:35

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP 1 (6B27013-01) Soil							······································		
% Moisture	10.9	0.1	%	1	EB62809	02/27/06	02/28/06	% calculation	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/06/06 11:35

Environmental Lab of Texas

		Reporting	TT '.	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC60202 - EPA 5030C (GC)										
Blank (EC60202-BLK1)				Prepared &	Analyzed:	03/02/06				
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Xylene (p/m)	ND	0.0250	**							
Xylene (0)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	33.0		ug/kg	40.0		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.8		"	40.0		87.0	80-120			
LCS (EC60202-BS1)				Prepared &	Analyzed:	03/02/06				
Benzene	1.04	0.0250	mg/kg wet	1.25	· · · · · · · · · · · · · · · · · · ·	83.2	80-120			
Toluene	1.13	0.0250		1.25		90.4	80-120			
Ethylbenzene	1.29	0.0250	14	1.25		103	80-120			
Xylene (p/m)	2.73	0.0250	n	2.50		109	80-120			
Xylene (0)	1.35	0.0250	"	1.25		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.8		ug/kg	40.0		87.0	80-120			
Surrogate: 4-Bromofluorobenzene	40.7		"	40.0		102	80-120			
Calibration Check (EC60202-CCV1)				Prepared 8	Analyzed:	03/02/06				
Benzene	41.5		ug/kg	50.0		83.0	80-120			
Toluene	46.3		17	50.0		92.6	80-120			
Ethylbenzene	52.9		"	50.0		106	80-120			
Xylene (p/m)	111		**	100		111	80-120			
Xylene (o)	55.5			50.0		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.1		"	40.0		82.8	80-120			
Surrogale: 4-Bromofluorobenzene	37.9		"	40.0		94.8	80-120			
Matrix Spike (EC60202-MS1)	Sou	rce: 6B27012	-01	Prepared &	Analyzed:	03/02/06				
Benzene	1.04	0.0250	mg/kg dry	1.30	ND	80.0	80-120			
Toluene	1.15	0.0250	**	1.30	ND	88.5	80-120			
Ethylbenzene	1.32	0.0250	**	1.30	ND	102	80-120			
Xylene (p/m)	2.83	0.0250		2.60	ND	109	80-120			
Xylene (0)	1.37	0.0250	"	1.30	ND	105	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.7	······································	ug/kg	40.0		84.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/06/06 11:35

Environmental Lab of Texas

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

Batch EC60202 - EPA 5030C (GC)

Matrix Spike Dup (EC60202-MSD1)	Sour	ce: 6B27012	2-01	Prepared: 0)3/02/06 A	nalyzed: 03	3/03/06		
Benzene	1.05	0.0250	mg/kg dry	1.30	ND	80.8	80-120	0.995	20
Toluene	1.12	0.0250	11	1.30	ND	86.2	80-120	2.63	20
Ethylbenzene	1.28	0.0250	"	1.30	ND	98.5	80-120	3.49	20
Xylene (p/m)	2.72	0.0250	"	2.60	ND	105	80-120	3.74	20
Xylene (0)	1.35	0.0250	u	1.30	ND	104	80-120	0.957	20
Surrogate: a,a,a-Trifluorotoluene	33.7		ug/kg	40.0		84.2	80-120		
Surrogate: 4-Bromofluorobenzene	36.1		"	40.0		90.2	80-120		

Batch EC60206 - Solvent Extraction (GC)

Blank (EC60206-BLK1)				Prepared & Ana	lyzed: 03/02/06		
Carbon Ranges C6-C12	ND	10.0	mg/kg wet				
Carbon Ranges C12-C28	ND	10.0	н				
Carbon Ranges C28-C35	ND	10.0	"				
Total Hydrocarbon C6-C35	ND	10.0	n				
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0	96.8	70-130	
Surrogate: 1-Chlorooctadecane	46.3		"	50.0	92.6	70-130	
LCS (EC60206-BS1)				Prepared & Ana	lyzed: 03/02/06		
Carbon Ranges C6-C12	538	10.0	mg/kg wet	500	108	75-125	
Carbon Ranges C12-C28	501	10.0	11	500	100	75-125	
Total Hydrocarbon C6-C35	1040	10.0	w	1000	104	75-125	
Surrogate: 1-Chlorooctane	58.6		mg/kg	50.0	117	70-130	
Surrogate: 1-Chlorooctadecane	58.3		"	50.0	117	70-130	
Calibration Check (EC60206-CCV1)				Prepared: 03/02/	06 Analyzed: 03	/03/06	
Carbon Ranges C6-C12	233	• • •	mg/kg	250	93.2	80-120	
Carbon Ranges C12-C28	270		н	250	108	80-120	
Total Hydrocarbon C6-C35	503		"	500	101	80-120	
Surrogate: 1-Chlorooctane	54.6		n	50.0	109	70-130	
Surrogate: 1-Chlorooctadecane	54.4		"	50.0	109	70-130	

Plains All American EH & S	Project:	North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	03/06/06 11:35

Environmental Lab of Texas

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

Batch EC60206 - Solvent Extraction (GC)

Matrix Spike (EC60206-MS1)	Sourc	e: 6B27012	-06	Prepared &	Analyzed:	03/02/06				
Carbon Ranges C6-C12	571	10.0	mg/kg dry	527	ND	108	75-125			
Carbon Ranges C12-C28	507	10.0	u	527	ND	96.2	75-125			
Total Hydrocarbon C6-C35	1080	10.0	u	1050	ND	103	75-125			
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	55.5		"	50.0		111	70-130			
Matrix Spike Dup (EC60206-MSD1)	Sourc	e: 6B27012	-06	Prepared &	Analyzed:	03/02/06				
Carbon Ranges C6-C12	561	10.0	mg/kg dry	527	ND	106	75-125	1.77	20	
Carbon Ranges C12-C28	504	10.0	н	527	ND	95.6	75-125	0.593	20	
Total Hydrocarbon C6-C35	1070	10.0	"	1050	ND	102	75-125	0.930	20	
Surrogate: 1-Chlorooctane	59.2		mg/kg	50.0		118	70-130			
Surrogate: 1-Chlorooctadecane	54.1		"	50.0		108	70-130			

Environmental Lab of Texas

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/06/06 11:35

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB62809 - General Preparation (Prep)										
Blank (EB62809-BLK1)				Prepared: 0	2/27/06 A	Analyzed: 02	/28/06			
% Solids	100		%							
Duplicate (EB62809-DUP1)	Sourc	:e: 6B27001-	01	Prepared: 0	2/27/06 A	Analyzed: 02	/28/06			
% Solids	92.9		%		92.7			0.216	20	
Duplicate (EB62809-DUP2)	Sourc	e: 6B27012⊣	03	Prepared: 0	2/27/06 A	Analyzed: 02	/28/06			
% Solids	96.2		%		95.5			0.730	20	

Plains All American EH & S	Project: North Hobbs 8"	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: SRS: 2006-059	Reported:
Midland TX, 79706-4476	Project Manager: Camille Reynolds	03/06/06 11:35

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

Raland K Just 3/6/2006 Report Approved By: Date:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist 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

TAT bisbrist \mathbf{x} × eluberto2-erg) TAT H2US Project Name: NOPTH HOBBS 8-INCH z Project #: 5KS: 2006-059 PO#: C. REYNOLDS/PAH CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST M N Ð Project Loc: LEA POENTY NM emmaD leto W.N.O. Temperature Upon Receipt 102 Sample Containers Intact? aboratory Comments: BTEX 80218/5030 Analyze SOUDDIOARLIOS 2011810/ ₽ Websis: As Ag Ba Cd Cr Pb Hg Se TCLP: OBO / HOB / NAME V (COOH 'SOO '205' (O) sugar Ā Cettons (Ce, Mg, Na, K) OBO Fime S S S 1001 5001 1002 1002 1008 Other (specify): Matrix lios > ъ appuig 1916VV Other (Specify) enoN acomative *06²H HOPN 9 9 9 ЮН å CONH 00 Fax No: (*5 は*ら; **6**2] 54 ж No. of Containers INSTRUCTION 1000 1010 belgme2 emil 88260 24 FEB 24 FE B 2006 Date Sampled Ŕ SVCS City/StateZip: <u>LOVENGTON</u> NM 1020 FOR ANALYSIS Time 3 Phone: 915-563-1800 Fax: 915-563-1713 company Address: P. O. BOX 3 Ø 1 Company Name BASIN ENV. Project Manager: KEN JUTTON Telephone No: (505)441- 3424 HFER & 6 Date FIELD CODE 0 Special Instructions: HOLD Sampler Signature: Q ک 12600 West I-20 East Odessa, Texas 79763 shed by B # (lab us

Environmental Lab of Texas I, Ltd.

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

Client:	Plains Basin	
Date/Time:	2/24/06 5:30	~
	6B21013	
Initials:	CK	

Sample Receipt Checklist

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Temperature of container/cooler?	Yes	No	2.5 CI
Shipping container/cooler in good condition?	(AB)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	(as I	No	Not present
Chain of custody present?	Xes	No	
Sample Instructions complete on Chain of Custody?	Xes	No	
Chain of Custody signed when relinquished and received?	Yes)	No	
Chain of custody agrees with sample label(s)	Xes	No	
Container labels legible and intact?	Xes	Na	
Sample Matrix and properties same as on chain of custody?	6	No	
Samples in proper container/bottle?		No	•
Samples properly preserved?	Xes.	No	
Sample bottles intact?	Xes	No	
Preservations documented on Chain of Custody?	(Tes	No	
Containers documented on Chain of Custody?	X	No	i
Sufficient sample amount for indicated test?	Xes	No	
All samples received within sufficient hold time?	3	No	
VOC samples have zero headspace?	YEB	No	Not Applicable

Other observations:

Contact Person: Regarding:	Variance Documentation: _Date/Time:	_ Contacted by:
Corrective Action Taken:		

Jeanne McMurrey

From:	"Ken Dutton" <kdutton@basinenv.com></kdutton@basinenv.com>
To:	"Jeanne" <jeanne@elabtexas.com></jeanne@elabtexas.com>
Cc:	"Camille Reynolds" <cjreynolds@paalp.com></cjreynolds@paalp.com>
Sent:	Monday, February 27, 2006 10:02 AM
Subject:	Hobbs North 8-Inch COC

Jeanne,

Reference the Hobbs North 8-Inch COC which had instructions to "hold for analytical instructions."

Please run the following analyticals on the soil sample:

SB1, TPH (8015M) & BTEX (8021B/5030)

SB2 is not needed, please discard.

Questions, let me know.

thxs

Ken

This message has been scanned for viruses and dangerous content by Basin Broadband, and is believed to be clean.

Depth Soil Column Excvation Floor 18 feet bgs	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description	Plains Marketing, L. P. North Hobbs 8-Inch Site Lea County, New Mexico SW/SW S29, T18S, R38E	ting, L. P. -Inch Site w Mexico 18S, R38E
2 2	674 ppm	Heavy	Heavy	Caliche Layer, Dry	SKS NO. 20 Soil BC TD: 45	No. 2000-059 Soil Boring Completion Data TD: 45 Feet bas
- 10	621 ppm	Heavy	Heavy	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry, Imbeeded w/caliche nodules	Installe Basir Servi	Installed 08 March 2006 Basin Environmental Service Technologies
 15	250 ppm	Moderate	None	Sand Stone Layer (12' - 14' bgs), Dry Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry		The second seco
20	115 ppm	None	None			9 bags of hydrated Bentonite Plug, Surface to 45' bgs, 1 bag Cement at Bottorn
25	183 ppm	Slight	None			
30	54.8 ppm	Slight	None			
35	71.8 ppm	Slight	None			
₽¢	0.1 ppm	None	None	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Wet		
45 TD				TITLE		DESCRIPTION
					Appendix C North Hobbs 8-Inch	Soil Boring 1
				DRA	DRAWN BY KaD	DATE 21 April 2006

Plains Marketing, L. P. North Hobbs 8-Inch Site Lea County, New Mexico SW/SW S29, T18S, R38E SPS NO 2006.050	Installed 13 March 2006	Basin Environmental Service Technologies	for analysis	Monitoring Well Completion Data T Groundwater Depth	TD: 65 Feet bgs	25 Feet , 2" .010 PVC Screen 45 Feet, 2" PVC Riser	35 Feet, Depth to Sand Pack 35 Feet to Surface,	Hydrated Bentonite Seal 2 X 2 Feet Concrete Surface Pad	installed w/4 X 60 inch metal locking square protector				LE DESCRIPTION	Appendix C North Hobbs 8-Inch	DRAWN BY DATE KAD 21 April 2006
Soil Description	Caliche Layer to 19' bgs, Dry			Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry, Imbedded w/caliche nodules	Sand Stone Layer (26' - 29' bgs)	Dry	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry				Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Moist				DR
Petroleum Stain	None	None	None	None	None	None	None	None	None	None	None				
Petroleum Odor	None	None	None	None	None	None	None	None	None	None	None				
PID Reading	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm				
Soil Column															
Depth	<u>л</u>	10	15	50	25	30	35	40	45	20	₩ ²²	€0 €0	65 TD	3	

Plains Marketing, L. P. North Hobbs 8-Inch Site Lea County, New Mexico SW/SW S29, T18S, R38E SRS No. 2006-059	Installed 13 March 2006	Basin Environmental Service Technologies	for analysis	Monitoring Well Completion Data	TD: 65 Feet bgs	25 Feet , 2" .010 PVC Screen 45 Feet, 2" PVC Riser	35 Feet, Depth to Sand Pack 35 Feet to Surface, Undered Bordonic Scool	2 X 2 Feet Concrete Surface Pad	installed w/4 X 60 inch metal locking square protector				Appendix C Monitoring Well 2 North Hobbs 8-Inch	DRAWN BY DATE KAD 21 April 2006
Soil Description	Caliche Layer to 19' bgs, Dry			Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry, Imbedded w/caliche nodules	Sand Stone Laver (27' - 29' bos)	Dry	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry				Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Moist			DR
Petroleum Stain	None	None	None	None	None	None	None	None	None	None	None			
Petroleum Odor	None	None	None	None	None	None	None	None	None	None	None			
PID Reading	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm			
Soil Column														
Depth	ي ا	10	15	50	25	30	35	40	45	20	4 22 4	8	 : ; 	

	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description	Plains markeung, L. P. North Hobbs 8-Inch Site Lea County, New Mexico SW/SW S29, T18S, R38E	eung, L. P. 8-Inch Site Vew Mexico T18S, R38E
		0.1 ppm	None	None	Caliche Layer to 22' bgs, Dry	SRS No. 2	
		0.1 ppm	None	None		Instal Bas Sen	Installed 14 March 2006 Basin Environmental Service Technologies
15		0.1 ppm	None	None			Samples selected for analysis
20		0.1 ppm	None	None		, Monit	Monitoring Well Completion Data
25		0.1 ppm	None	None	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry,	⇒ Ë	 Groundwater Depth TD: 65 Feet bgs
30		0.1 ppm	None	None		25 Fe 45 Fe	25 Feet , 2" .010 PVC Screen 45 Feet, 2" PVC Riser
35		0.1 ррт	None	None		35 Fe 35	35 Feet, Depth to Sand Pack 35 Feet to Surface
40		0.1 ppm	None	None		Hydra 2 X	Hydrated Bentonite Seal 2 X 2 Feet Concrete Surface Pad
45		0.1 ppm	None	None		instal	installed w/4 X 60 inch metal locking square protector
50		0.1 ppm	None	None			
22 1		0.1 ppm	None	None	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Moist	eu	
60							DESCRIPTION
65 TD						Appendix C North Hobbs 8-Inch	Monitoring Well 3
						DRAWN BY	DATE

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action												
OPERATOR x Initial Report Final Re												
		ains Pipeline		Contact Camille Reynolds								
		Hwy 82, Lov Hobbs 8 Inch	NM 88260		Telephone No. 505-441-0965 Facility Type 8"Steel Pipeline							
			Mineral O									
Surface Ow	ner K,M a	nd S Enterpr										
						N OF RE						
Unit Letter M	Section 29	Township 18S	Range 38E	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County Lea		
Latitude_32° 42' 40.2" Longitude_103° 10' 41.7"												
NATURE OF RELEASE												
Type of Rele			, 							overed 3 barrels		
Source of Release 8" Steel Pipeline						2-09-06 @ 9:00 2-09-06 @						
Was Immedi		\boxtimes	If YES, To Whom? I Pat Caperton									
By Whom? (Was a Water			Date and Hour 2-09-06 @ 11:00 If YES, Volume Impacting the Watercourse.									
				It i Eo, volume impacting the watercourse.								
Describe Cause of Problem and Remedial Action Taken.* Internal corrosion of a 8 inch steel pipeline resulted in Arelease of sour crude oil, 'A clamp was installed on the line to mitigate the release. The line is a 8 inch steel gathering pipeline that produces approximately 280 barrels of crude oil per day. The pressure on the line is approximately 20 psi and the gravity of the sour crude oil is 37. The sour crude has an H ₂ S content of 510 ppm. The line was approximately 1.5 feet bgs at the release point.												
Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was approximately 400 ft ² .												
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
Signature	am	llet	OIL CONSERVATION DIVISION									
Printed Name	: Camille R	eynolds	/	Approved by District Supervisor:								
Title: Remediation Coordinator						Approval Dat	e: Expiration I			Date:		
E-mail Address: cjreynolds@paalp.com						Conditions of Approval:				Attached		
Date: 2 14 M	4			Dhone-505 111 0	044							