

STAGE 1 & 2 REPORTS

DATE: 10-8-08



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Phone 281.240.5200 Fax 281.240.5201 www.premiercorp-usa.com

October 08, 2008

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

Re:

Hugh Gathering – East Site – Lea County, New Mexico Groundwater Investigation Results – September 2008 Plains SRS No. 2002-10235

Dear Jeff:

In September 2008, Premier Environmental Services, Inc. (Premier) conducted an initial groundwater evaluation at the Plains Marketing, L.P. (Plains) Hugh Gathering – East Site (Site), in Lea County, New Mexico. The investigation was based on the New Mexico Oil Conservation Division (NMOCD) approved soil remediation and groundwater investigation work plan dated July 1, 2008.

On September 5, 2008, one monitor well was installed at the Site to determine if groundwater had been affected by the crude oil release at Hugh Gathering site. Monitor well MW-13 is located 37 feet south of the gathering line, and 35 feet east of the right-of-way fence, associated with the four-lane highway, New Mexico State Road 18 (NMSR18). Attached is a Site location map (Figure 1) and a Site layout map with the location of monitor well MW-13 with respect to the excavation completed at the site to remove hydrocarbon affected soil (Figure 2). Details of the hydrocarbon removal and installation of the clay liner that were completed as part of the NMOCD approved Soil Remediation will be presented in a separate report.

The location of the well was placed as close to the excavation as practically possible and down gradient of the release point. The gradient map was based on the groundwater gauging data collected from sampling events at the Hugh Gathering Site immediately west across NMSR18. The groundwater gradient at the Site is towards the south-southeast.

Albuquerque, NM
Atlanta, GA
Baton Rouge, LA
Boston, MA
Cleveland, OH
Dumas, TX
Edgewater, NJ
Gulfport, MS
Houston, TX
Indianapolis, IN
Jackson, MS
Las Vegas, NV
Memphis, TN
Midland, TX
Portland, OR
San Antonio, TX
Seattle, WA
Sisters, OR
St. Louis, MO
Tupelo, MS
Toronto, ONTARIO

Field Soil Investigation – September 2008

This letter summarizes the September 2008 groundwater investigation and the resulting data. The investigation was conducted by advancing and installing one monitor well to a depth approximately ten feet below the first groundwater bearing unit contact (59 feet bgs).

On September 5 2008, Mr. Ben Latham, with Premier, met with representatives of Straub Drilling Corporation of Stanton, Texas at the Site. A walk-through site survey was conducted to note the Site conditions and access issues, and also to conduct a site safety meeting and Health and Safety Plan review. The survey was then followed by advancing the borehole for monitor well MW-13 using air rotary drilling techniques. Discrete soil samples were collected at five-foot intervals using an open ended core tool attached to the end of the drill string and inspected for lithology. The soil samples below 35 feet below ground surface (bgs) were divided into two portions. One portion was stored in laboratory supplied glassware at recommended temperature (on ice) for a potential laboratory analyses. The second portion of each sample was placed within a self sealing, polypropylene bag, allowed to volatilize for at least fifteen minutes, then field analyzed for light end hydrocarbons using an Organic Vapor Monitor (OVM). If the hydrocarbon analysis resulted in detection, the first portion stored would be submitted for further laboratory analyses based on the highest OVM readings. Soils were continuously observed during drilling and described using a modified version of the Unified Soil Classification System, allowing for calcified soils (caliche) present in the region.

The borehole for monitor well MW-13 was located approximately 37 feet to the south of the gathering line and 35 feet east of NMSR18. The borehole for monitor well MW-13 was advanced to a total depth of 70 feet bgs (Attachment A). Groundwater was first encountered in the boring for monitor well MW-13 at approximately 60 feet bgs. No visible PSH was observed on the drill rod, sample tools or produced groundwater that were encountered during the drilling of these boreholes. No hydrocarbon odors or elevated OVM readings were detected in the soil samples collected from the boring.

Field screening of soil samples indicated no detectable concentrations of organic vapors from 35 feet bgs to the first groundwater bearing zone at 60 feet bgs in MW-13. All OVM readings are recorded on the boring logs for monitor well MW-13. No odors or staining were encountered in the boring.

Based on the lack of OVM readings and odor throughout the boring and at the first groundwater bearing unit, there were no soil samples submitted for laboratory analysis.

Field Groundwater Investigation – September 2008

The boring was advanced an additional ten feet beyond the first encounter of groundwater and allowed to sit for approximately ten minutes. This would allow



groundwater to enter the well bore and assist in analyzing aquifer flow characteristics. The groundwater was then evacuated from the borehole to help clean the hole in preparation for installing two-inch diameter PVC casing. The PVC casing was installed using 20 feet of 0.010-inch slotted screen and 53 feet of riser. 20/40 screened silica sand filter pack was placed from total depth up to two feet above the top of the PVC screen at approximately 48 feet bgs. Bentonite chips were placed from the top of the filter pack up to two feet bgs and hydrated. A metal shroud was mounted in a two foot by two foot concrete pad to the well. The driller's Well Record and Log (Attachment B) to the New Mexico Office of the State Engineer is attached.

On September 5, 2008, Mr. Robert Grubbs and Mr. Shane Diller, with Premier, arrived at the Site to develop the new well in preparation for future groundwater sampling. The well was developed by hand bailing at least five well volumes until the water clarity was acceptable.

On September 8, 2008, Mr. Grubbs and Mr. Diller purged the well by hand bailing at least three well volumes and collected groundwater from monitor well MW-13. The samples were placed on ice and transported to Trace Analysis, Inc Laboratories (Trace) in Midland, Texas and analyzed for the following constituents:

General Chemistry

Calcium	Bicarbonate Alkalinity
Magnesium	Carbonate Alkalinity
Potassium	Nitrate
Sodium	Phosphate
Chloride	Fluoride
Sulfate	

Resource Conservation and Recovery Act (RCRA) Metals

Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver

Additional Water Quality Control Commission (WQCC) Metals

Copper Iron Manganese Zinc Aluminum Boron Cobalt Molybdenum Nickel





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Groundwater Analytical Results

Upon receipt and review of the preliminary results of groundwater sample MW13 it was determined the initial analysis was performed with a dilution factor of 100 based on an initial OVM reading by the laboratory. The preliminary results indicated a presence of benzene at a concentration of 1.40 mg/L, which is above the NMOCD regulatory limits of 0.01 mg/L. Complete laboratory results from the groundwater sample from monitor well MW-13 are summarized in Table 1 and the comprehensive analytical reports are presented in Attachment C (provided on CD only). A summary of detections is presented in Table 2 below.

Table 2: Summary of Analytical results of detected parameters

	MW-13
Parameter	Results
e	09/08/2008
Total Metals	mg/L
Total Barium	0.188
Total Chromium	0.005
Fluoride ²	2.17
Nitrate-N ₂	1.29
Chloride ¹	259
Total Copper	0.02
Total Iron	5.01
Total Manganese	0.133
Sulfate	118
Total Zinc	0.065
рН	7.37
Total Aluminum	13
Total Boron	0.352
Total Cobalt	0.004
Total Nickel	0.008
Alkalinity (as CaCO ₃)	
Bicarbonate Alkalinity	335
Total Alkalinity	335
Cations	
Dissolved Calcium	204
Dissolved Potassium	4.27



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	MW-13
Parameter	Results
n 	09/08/2008
Dissolved Magnesium	24.1
Dissolved Sodium	173
Specific Conductance	1580
Semi Volatiles	
Naphthalene	0.0106
2-Methylnaphthalene	0.00721
1-Methylnaphthalene	0.00938
Dibenzofuran	0.0011
Fluorene	0.000297
Phenanthrene	0.000753
bis(2-	
ethylhexyl)phthalate	0.081
Volatiles	
Benzene	1.4

Note: Concentrations in **bold indicate exceedence with respect to New Mexico Water Quality Standards**. ¹ Dilution factor = 10; ² Dilution Factor = 5

Based on the benzene concentration observed in the initial sample (upon ensuring with the lab that the sample is within the recommended holding time limit), Premier requested a reanalysis of the sample at 10 times sample dilution. The results obtained from this run are summarized in Table 1. In addition, to confirm the presence of benzene concentration levels, monitor well was re-sampled on September 24th 2008 for benzene, toluene, ethylbenzene, and total xylenes (BTEX). These results (included in Table 1) showed concentrations of benzene at 1.02 mg/L, toluene at 0.0175 mg/L, ethylbenzene at 0.0069 mg/L and xylenes 0.0812 mg/L.

Table 1 summarizes the results of all laboratory analyses on the samples obtained from MW-13. It also includes the applicable regulatory limits, in the order of NMOCD, EPA Primary Standards, EPA Secondary Standards, and New Mexico Groundwater Risk Based Screening Levels. If a Chemical of Concern (COC) was observed to have a detected concentration and did not have any regulatory limits from the New Mexico or EPA Regulations, the Residential Groundwater Protective Concentration Limit (PCLs) from the Tier 1, Texas Risk Reduction Program has been used as the limits to evaluate the analytical results.

Analytical results obtained from the monitor well MW-13 were compared to analytical data from monitor wells at Hugh Gathering West in Table 3. Analytical data from samples MW-13 with a dilution factor (DF) = 100 and DF = 10 did not show any similarities among the constituent ratios with the analytical data from monitor wells on the west side of NMSR18. The sample from monitor well MW-13 that was re-sampled



for BTEX only, was found to have similar constituent ratios to data from monitor well MW-3 at the Hugh Gathering West site.

In summary the main COCs associated with the crude oil release that were detected in the groundwater sample from monitor well MW 13 above the regulatory limits are benzene and bis(2-ethylhexyl)Phthalate.

Proposed Remedial Approach

Based on the analytical results of COCs detected in monitor well MW-13 (presented in Table 1) Premier recommends quarterly sampling of this well. This helps to determine if contaminant concentrations are decreasing as a result of the excavation activities and placement of the liner to prevent future migration of residual hydrocarbons from reaching the groundwater.

Premier recommends installation of two additional wells, one to the southeast and one directly east of monitor well MW-13, to delineate the extent of dissolved phase hydrocarbons in groundwater. The new wells should be spaced approximately 75-100 feet from MW-13. Hydrologic gradient maps based on site data from the Hugh Gathering Site located on the west side of NMSR18 indicate the groundwater gradient is to the south, southeast across the site (Figure 3). The location of the wells will have to be placed with careful consideration of the oil well and its associated drilling pit located just southeast of the Site.

The analytical results from the collection and analysis of quarterly groundwater samples from the Hugh Gathering Site (East and West) site will be presented in quarterly letter reports to Plains. An annual report will be provided to Plains, and upon approval from Plains, presented to the NMOCD before the end of March each year.

Upon the review of this document, should you have any questions concerning the information presented or the attached materials, please call us at (281) 240-5200.

Yours very truly,

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Chan Patel, Senior Project Manager

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Shashi Abburi Staff Engineer



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Attachments: Figure 1: Site Location Maps Figure 2: Site Layout with MW-13 Figure 3: 3rd Quarter 2008 Hugh Gathering West Gradient Map Table 1: Analytical Results and the Regulatory limits of COCs at MW-13 Table 2: Summary of Analytical results of detected parameters Table 3: Comparison of Analytical Data Attachment A – Boring Log Attachment B – Drillers Well Record and Log Attachment C – Laboratory Analytical Reports (Available electronically on CD only) Analytical Report 1 (Dilution Factor: 100) – 172938 Analytical Report 2 (Dilution Factor: 10 for VOCs) – 172938 Analytical Report 3 (BTEX Only) – 174540





DISCLAIMER

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Premier has examined and relied upon the file information provided by Plains. Premier has not conducted an independent examination of the information contained in the Plains files; furthermore, we assume the genuineness of the documents reviewed and that the information provided in these documents to be true and accurate. Premier has prepared this report using the level of care and professionalism in the industry for similar projects under similar conditions. Premier will not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this report was prepared. Premier believes the conclusions stated herein are factual, but no guarantee is made or implied.

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Figure 1 – Site Location Map Figure 2 – Site Layout with MW-13 Figure 3 – 3rd Quarter 2008 Hugh Gathering Gradient Map









TABLES

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Table 1 – Analytical Results and the Regulatory limits of COC at MW-13 Table 2 – Summary of Analytical Results of Detected Parameters Table 3 – Comparison of Analytical Data



TABLE 1 ANALYTICAL RESULTS of MW-13 Preliminary Analysis Plains Pipeline, L.P. SRS No. 2002-10235 Hugh Gathering East Lea County, New Mexico

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0.16							<0.00500	Aniline
				0.005 (Tox)	i		<0.00500	Phenol
							<0.00500	Ethylmethanesulfonate
							<0.00500	2-Picoline
				Tox			<0.00500	N-Nitrosodimethylamine
			A 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				<0.00500	Pyridine
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								Semi Volatiles
							1580	Specific Conductance (µMHOS/m)
1 - 1 - 1	and a second of the second	2					<2.5	PO4-P
1. 2. 4								
							173	Dissolved Sodium
							24.1	Dissolved Magnesium
							4.27	Dissolved Potassium
and the second	1	1					204	Dissolved Calcium
	States and the second	*	the stand of the stand of the	1. 4	Sol Carl Song Cards and		1983 S	Cations 2 feet - 2 2 2 - 2 2 2
							335	Total Alkalinity
							335	Biarbonate Alkalinity
							<1.00	Carbonate Alkalinity
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		The second s						Alkalinity (as CaCO ₃)
				0.2			0.008	Total Nickel
				-			<0.00613	Total Molybdenum
				0.05			0.004	Total Cobalt
		7'n - cn'n		0.75			0 357	Total Boron
		6.5 - 8.5		6-9 F			1.3/	Total Aluminum
		5		10			0.065	lotal Zinc
		250		600			118	Sulfate
		0.05		0.2			0.133	Total Manganese
		0.3		-			5.01	Total Iron
		-	1.3*	-			0.02	Total Copper
			10	10			1.29	Nitrate-N ²
		2	4	1.6			2.17	Fluoride ²
		250		250			259	Chloride
			0.05	0.05			<0.0200	Total Selenium
			0.015*	0.05			<0.00500	Total Lead
			0.002	0.002			<0.000200	Total Mercury
			0.1	0.05			0.005	Total Chromium
			0.005	0.01			<0.00200	Total Cadmium
			0				0.188	Total Barium
		- .	0.01	5.0			<0.0100	Total Arsenic
د. 1/6w: ۰	<u></u>	- * · · · mg/E · * :	₩ mg/L	0.05	<u></u>	· • • • • • • • • • • • • • • • • • • •		Total Silver
					and a well and a second se	1	mail	
GWRCLS	RBSL	MCLS	MCLS .	Standards (NMOCD)	Reanalysis for BTEX 9/24/2008	9/08/08	9(08/2008) (DF=100)	
TRRP Tier	Selected NM GW	EPA Secondary	EPA Primary	Water Quality		Results		
				New Mevico	22 · · · · · · · · · · · · · · · · · ·	· MW13		

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TABLE 1 ANALYTICAL RESULTS of MW-13 Preliminary Analysis Plains Pipeline, L.P. SRS No. 2002-10235 Hugh Gathering East Lea County, New Mexico

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	STATISTICS STATES STATES						
	Results		Water Outling		EDA Consulation	Colored And Chu	TRRP Tier
Sector	9/08/2008	Reanalvsis for	Standards	MCLS	MCI's	Jejeckeu NWI GW	Residentia
	(DF=100) (DF=10:VOCS)	BTEX - 9/24/2008	(NMOCD)				GW PCLS
2-Chlorophenol	<0.00500	A STATE OF A					
1,3-Dichlorobenzene(meta)	<0.00500		Tox				
1,4-Dichlorobenzene(para)	<0.00500		Tox	0.075			
Benzylalcohol	<0.00500						
1,2-Dichlorobenzene(ortho)	<0.00500		Тох	0.6			
2-Methylphenol	<0.00500						
bis(2-chloroisopropyl)ether	<0.00500		Tox				
4-Methylphenol/3-Methylphenol	<0.00500						
N-Nitrosodi-n-propylamine	<0.00500						
Hexachloroethane	<0.00500		Tox				
Acetophenone	<0.00500						
Nitrobenzene	<0.00500		Tox				
N-Nitrosopiperidine	<0.00500						
lsophorone	<0.00500		Tox				
2-Nitrophenol	<0.00500						
2.4-Dimethylphenol	<0.00500						
bis(2-chloroethoxy)methane	<0.00500						
2,4-Dichlorophenol	<0.00500		Tox				
1,2,4-Trichlorobenzene	<0.00500			0.07			
Benzoic acid	<0.00500						
Naphthalene	0.0112		0.03				
a, a-Dimethylphenethylamine	<0.00500						
4-Chloroaniline	<0.00500						
2,6-Dichlorophenol	<0.0100						
Hexachlorobutadiene	<0.00500						
N-Nitroso-di-n-butytamine	<0.00500		Tox				
4-Chloro-3-methylphenol	<0.00500						
2-Methylnaphthalene	0.00721						0.0978
1-Methylnaphthalene	0.0098						1.71
1,2,4,5-Tetrahlorobenzene	<0.00500		Tox				
Hexachlorocyclopentadiene	<0.00500			0.05			
2,4,6-Trichlorophenol	<0.0100		Tox				
2,4,5-1 richlorophenol	<0.00500		Tox				
2-Chloronaphthalene	<0.00500						
1-Chloronaphthalene	<0.00500						
2-Nitroaniline	<0.00500						
Dimethylphthalate	<0.00500		Tox				
Acenaphthylene	<0.00500						
2,6-Dinitrotoluene	<0.00500						
3-Nitroaniline	<0.00500						
Acenaphthene	<0.00500					2.2	
2,4-Dinitrophenol	<0.00500		Tox				
Jibenzofuran	<0.00500						0.098
entachlorobenzene	<0.00500		Tox				
4-Nitrophenol	<0.0250						
2,4-Difficrotoluene			Tox				
I-Naphthylamine	<0.00500						

TABLE 1ANALYTICAL RESULTS of MW-13 Preliminary AnalysisPlains Pipeline, L.P.SRS No. 2002-10235Hugh Gathering EastLea County, New Mexico

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		MW13					1997 - North 1	4 N
		Results		New Mexico				TRRP Tier 1
Paraméter	9/08/2008 (DF=100)	*Rerun	Reanalysis for BTEX 9/24/2008	Standards (NMOCD).	CLS FIIIIALY	CER Secondary	Selected NMICW	Residential GW PCLs
2.3.4.6-Tetrachlorophenol	<0.0100	100000000000000000	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	18-100 NOV 5 2 K	a leady water and a lot of the	المنافعة الأماطية المنافع	مەر يەر كەنۋەر قەتلەر مەر يە ^ر	a Take to a the
-Naphthylamine	<0.00500							
luorene	<0.00500			Tox			1.46	
	<0.00500							
Diethylphthalate	<0.00500			Tox				
Nitroaniine	<0.00500			1				
	<0.00500			Tox				
t,6-Dinitro-2-methylphenol	<0.00500							
Jiphenylamine	<0.00500							
Bromophenyl-phenylether	<0.00500							
henacetin	<0.00500							
lexachlorobenzene	<0.00500			Tox	0.001			
L-Aminobiphenyl	<0.00500							
² entachlorophenol	<0.0100			Tox	0.001			
Anthracene	<0.00500			Tox			11**	
^o entachloronitrobenzene	<0.00500							
Pronamide	<0.00500							
henanthrene	<0.00500			Tox			1.1**	
Di-n-butylphthalate	<0.00500			Tox				
luoranthene	<0.00500			Tox			1.46**	
Senzidine	<0.0250			Tox				
yrene	<0.00500			Tox			1.1**	
-Dimethylaminoazobenzene	<0.00500							
Butylbenzylphthalate	<0.00500							
3enzo(a)anthracene	<0.00500						0.0012	
3,3-Dihlorobenzidine	<0.00500							
Chrysene	<0.00500						0.117**	
ois(2-ethylhexyl)phthalate	0.081			Tox	0.006			
Di-n-octylphthalate	<0.00500							
3enzo(b)fluoranthene	<0.00500						0.0012	
3enzo(k)fluoranthene	<0.00500			Tox			0.0012**	
',12-Dimethylbenz(a)anthracene	<0.00500							
senzo(a) pyrene	<0.00500			0.0007	0.0002		-	
-Methylcholanthrene	<0.00500							
Dibenzo(a,j)acridine	<0.00500							
ndeno(1,2,3-cd)pyrene	<0.00500							
Dibenzo(a,h)anthraene	<0.00500						0.00012	
3enzo(g,h,i)perylene	<0.00500							
/olatiles							N	
Sromochtoromethane	<0.1	<0.01						
Dichlorodifluoromethane	<0.1	<0.01		Tox				
Chloromethane(methylhloride)	<0.1	<0.01		Tox				
/inylChloride	<0.1	<0.01		0.001	0.002			
8romomethane(methylbromide)	<0.5	<0.05		Tox				
Chloroethane	<0.1	<0.01						
richlorofluoromethane	<0.1	<0.01						
cetone	10	<01						

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TABLE 1 ANALYTICAL RESULTS of MW-13 Preliminary Analysis Plains Pipeline, L.P. SRS No. 2002-10235 Hugh Gathering East Lea County, New Mexico

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		 MW13 			and the second second			
		Results		New Mexico				TRRP Tier 1
Parameter	9/08/2008	/ Rerun - 9/08/08 /DF=10:VOCs)	. Reanalysis for BTEX - 9/24/2008	Standards (NMOCD)		ELA Secondary	Selected NW GW	Residential GW PCLs
lodomethane(methyliodide)	<0.5	<0.05	AN BALES COMPANY MICHAEL	The second and the second s			Setting to Anta Concernent The	14 (A)
CarbonDisulfide	<0.1	<0.01					-	
Acrylonitrile	<0.1	<0.01		Tox				
2-Butanone(MEK)	<0.5	<0.05						
4-Methyl-2-pentanone(MIBK)	<0.5	<0.05						
2-Hexanone	<0.5	<0.05						
trans-1,4-Dichloro-2-butene	<1.0	<0.1						
1,1-Dichloroethene	<0.1	<0.01		0.005	0.007			
Methylenechloride	0.047 J	0.0229 J		0.1	0.005			
MTBE	<0.1	<0.01		0.015				
trans-1,2-Dichloroethene	<0.1	<0.01		Tox	0.1			
1,1-Dichloroethane	<0.1	<0.01		0.025				
cis-1,2-Dichloroethene	<0.1	<0.01		Tox	0.07			
2,2-Dichloropropane	<0.1	<0.01						
1,2-Dichloroethane(EDC)	<0.1	<0.01		0.01	0.005			
Chlaroform	<0.1	<0.01		0.1				
1,1,1-Trichloroethane	<0.1	<0.01		0.06	0.2			
1,1-Dichloropropene	<0.1	<0.01						
Benzene	1.4	1.61	1.02	0.01	0.005			
CarbonTetrachloride	<0.1	<0.01		0.01	0.005			
1,2-Dichloropropane	<0.1	<0.01			0.005			
Trichloroethene(TCE)	<0.1	<0.01		0.1	0.005			
Dibromomethane(methylenebromide)	<0.1	<0.01						
Bromodichloromethane	<0.1	<0.01		Тох				
2-Chloroethylvinylether	<0.5	<0.05						
cis-1,3-Dichloropropene	<0.1	<0.01		Тох				
trans-1,3-Dichloropropene	<0.1	<0.01		Tox				
Toluene	<0.1	<0.01	0.0175	0.75	1			
1,1,2-Trichloroethane	<0.1	<0.01		0.01	0.005			
1,3-Dichloropropane	<0.1	<0.01						
Dibromochloromethane	<0.1	<0.01						
1,2-Dibromoethane(EDB)	<0.1	<0.01		0.0001	0.00005			
Tetrachloroethene(PCE)	<0.1	<0.01		0.02				
Chlorobenzene	<0.1	<0.01		Tox	0.1			
1,1,1,2-Tetrachloroethane	<0.1	<0.01						
Ethylbenzene	<0.1	<0.01	0.0069	0.75	0.7			
m,p-Xylene	<0.1	0.0498		0.62	10			
Bramoform	<0.1	<0.01		Tox				
Styrene	<0.1	<0.01			0.1			
o-Xylene	<0.1	<0.01		0.62	10			
1,1,2,2-Tetrachloroethane	<0.1	<0.01		0.01	0.005			
2-Chlorotoluene	<0.1	<0.01						
1,2,3-1 richloropropane	<0.1	<0.01						
sopropylbenzene	0.208	0.011						2.44
Bromobenzene	€0.1	<0.01						
n-Propylbenzene	<0.1	<0.01						
1,3,5-Trimethylbenzene	<0.1	0.00706 J						

Page 4 of 5

TABLE 1 ANALYTICAL RESULTS of MW-13 Preliminary Analysis SRS No. 2002-10235 Hugh Gathering East Lea County, New Mexico Plains Pipeline, L.P.

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		Results		New Mexico				TRRP Tier 1
Parameter	9/08/2008 (DF=100)	Si08/08	Reanalysis for BTEX., 9/24/2008	water quality Standards (NMOCD)	LEPA, Primary MCLS	EPA Secondary MCLS	Selected NM GW	Residential GW PCLst
್ಲು ಕತ್ತಿಗೆ ಅತ್ಯಾಸ್ ೈಕ್ಷ್ ಒಂಗ್ ಪ್ರಾಕ್ಷಿಸಿಕ್ಕೆ ಗೊತ್ತಿ. art-Rutylhenzene	<u>، المحمد الم</u>			N. C. M. C. N.	Sara	The second rest of the	Maria Contraction of the second	
,2,4-Trimethylbenzene	<0.1	0.0276						1.22
(,4-Dichlorobenzene(para)	<0.1	<0.01		Tox	0.075			
ec-Butylbenzene	<0.1	<0.01						
1,3-Dichlorobenzene(meta)	<0.1	<0.01		Tox				
>-Isopropyltoluene	<0.1	<0.01						
	<0.1	<10.0						
',2-Dichlorobenzene(ortho)	<0.1	<10.0		Tox	0.6			
h-Butylbenzene	<0.1	<10.0						
1,2-Dibromo-3-chloropropane	<0.5	<50.0			0.0002			
1,2,3-Trichlorobenzene	<0.5	<50.0						
1,2,4-Trichlorobenzene	<0.5	<50.0			0.07			
Japhthalene	0.441 J	0.0131 J		0.03				
Hexachlorobutadiene	<0.5	<50.0						
otal Xylene	<0.1	0.0498	0.0812	10				
AHS (States of the states of								
Naphthalene		0.0106						
2-Methylnaphthalene		0.00683						
1-Methylnaphthalene		0.00938						
Acenaphthylene		<0.000200						
Acenaphthene		<0.000200						
Dibenzofuran		0.0011						0.098
Fluorene		0.000297						
Anthracene		<0.000200						
Phenanthrene		0.000753						
Fluoranthene		<0.000200						
Pyrene		<0.000200						
Benzo(a)anthracene		<0.000200						
Chrysene		<0.000200						
Benzo(b)fluoranthene		<0.000200						
Benzo(k)fluoranthene		<0.000200						
Benzo(a)pyrene		<0.000200						
Indeno(1,2,3-cd)pyrene		<0.000200						
Dibenzo(a,h)anthracene		<0.000200						
Benzo(g,h,i)perylene		<0.000200						
- DF=10								

- DF=5

RBSL - Fisk Based Screening Levels, back calculated for adults using a target risk of 1x10-5 or a hazard quotient of 1, default Toxicity Treatment Technique Action level Treatment Technique Action level Tox - A numerical standard has not been established, but the contaminant is listed in a narrative standard of "Toxic pollutant" defined in WQCC regulations TRRP - Texas Risk Reduction Program TRRP - Texas Risk Reduction Program TRRP - Texas Risk Reduction Program Tex - Methylene chloride was detected in the Method blank at a concentration of 0.00926 mg/L = Regulatory limits not found

Analytical Results - Comparison of Analytical data MW-13 (East) and data from Hugh Gathering West Hugh Gathering East and West SRS 2002-10235 Lea County, New Mexico Table 3

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W-9 1.043 3.46 43.037 2.04 20.037 2.044 20.037 9.1447% 0.005 0.0023 0.0019 J 0.00183 2.0.3 24.8 PSH V-10 0.6165 0.40 64.88% 0.03 5.53% 0.09 14.47% 0.0053 0.0019 J 0.0062 2.17 7.62 PSH DF-100 1.4 1.40 100.00% <0.1 0.00% <0.1 0.00% SDF PSH PSH DF-100 1.4 1.40 100.00% <0.1 0.00% <0.112 <0.0053 0.00721 NS NS HG East DF-100 1.66 1.61 97.00% <0.01 0.00% 0.0112 <0.00753 0.00721 NS NS HG Best at Hugh Gathering East 0.0175 1.59% 0.0812 7.37% NS NS NS ASUIts observed are similar to MW-3	Well ID OCD Regulatory I MW-1 MW-3 MW-3 MW-4 MW-8	0.0683 <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8193</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>11.8194</u> <u>1</u>	0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.0101 0.010 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	67.98% 67.98% 67.98% 67.98% 67.98%	0.0039 0.033 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0039 0.0030 0.003 0.0030 0.00000000	27.95% 3.55% 5.71% 3.71%	0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.0349 0.15 0.0349 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	% % 7.32% 14.38% 0.57% 51.109% 110.65%	0.0194 0.0194 0.0194	16.67% 16.67% 5.41% 2.8.97% 2.28.40% 17.66%	2.92 0.0173 0.0027 J 0.273	Рhenanthrene 0.0041J 0.0041J 0.0041J	0.0191 0.0075 0000000000	СС 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	157 157 157 157 157 157 157 157 157 157	Comments Highest PSH PSH PSH PSH PSH Dissolved Phase, PAH 2007 PSH
DF-100 1.4 1.40 100.00% <0.1	-10 -10	0.6165	3.48 0.40	45.53% 64.88%	2.04 0.03	20.09% 5.53%	0.09	9.46% 14.47%	0.09	18.32% 15.12%	0.0053	0.0019 J	0.0062	20.3	24.8 7.62	PSH
eanalysis 1.10 1.02 92.63% 0.0175 1.59% 0.0069 0.63% 0.0812 7.37% NS NS NS NS NS NS at Hugh Gathering East	DF-100 3 DF-10	1.4 1.66	1.40 1.61	100.00% 97.00%	40.140.01	0.00%	<0.1 <0.01	0.00% 0.00%	<0.1 0.0498	0.00%	0.0112	<0.005 0.000753	0.00721	sn SN	sn NS	HG East HG East
	eanalysis	1.10	1.02	92.63%	0.0175	1.59%	0.0069	0.63%	0.0812	7.37%	NS	NS	NS	NS	SN	Results observed are similar to MW-3 at Hugh Gathering East

NW b, 7, 11 and 12 and below de NS - Not sampled for the COCs = Hugh Gathering West = Hugh Gathering East

Page 1 of 1

ATTACHMENT A

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Boring Logs





	L	OCATION I	MAP
PREMIER	Nette	M	
WELL NUMBERMW-13 PROJECT Hugh Gathering East LOCATION _ Lea County, New Mexico TOTAL WELL DEPTH 70 BOREHOLE DIA (in) _ 5 _ STICKUP (ft) _ 3' CASING DIA (in) 2 _ TYPE _ PVC _ SCREEN LENGTH _ 20' _ SLOT SIZE (in) _ 0.010 DRILLING CO Straub Drilling DRILLING METHOD _ Air Rotary GEOLOGIST _ Ben Latham DATE DRILLED _ 9/5/08 TOP OF CASING ELEV. (ft) GROUND SURFACE ELV. (ft)	Pipeline	Edge of Excavelo Parch Ramp Banch Edge of Excavelo Ramp Banch	Permeter Permeter
DEPTH PID PID LITHOLOGIC DESCRIPTION/COMMENTS			REMARKS
40 0.0 Redish Clayey Sand. 442 0.0 Redish Clayey Sand with rock inclusions. 448 0.0 Redish Clayey Sand with rock inclusions. 488 0.0 Redish Clayey Sand, with rock inclusions. 500 -52 -52 544 -56 - 600 - - 622 - - 644 0.0 Redish Clayey Sand, more Clay content. 668 - - 704 - - 712 - - 714 - - 715 - -			Bentonite Chips 2" PVC 0.010" Slotted Well Screen # 20/40 Sand Filter Pack
			Page 2 of 2

ATTACHMENT B

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Drillers Well Record and Log





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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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	POD NUM	BER (WE	LL NI	JMBER)					OSE FILE NUN	HBER(S)			
NO	HUGH	GATH	IER	ING EAST S	IDE MW-13								
ΞĒ	WELL OW	NER NAM	ME(S)						PHONE (OPTI	ONAL)			
Š	PLAINS	S MAR	RKE	TING LP									
FC	WELLOW			ADDRESS					CITY		CTATE		710
TT	222 0				1600					NI	TV	77	2070
M	333 01				1000				M00310	IN			070
R	WEL	L			DEGREES	MINUTES	SECO	NDS		· · · · · · · · · · · · · · · · · · ·			
ΓV	LOCAT	ION	LAT	TTUDE	32	29	1	1.00 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SEC	COND	
RA	(FROM	GPS)			102	7		0.00 W	* DATUM REG	QUIRED: WGS 84			
NE			LON	GITUDE	103		2	9.00 "					
GE	DESCRIP	TION REL	.ATIN	G WELL LOCATIO	IN TO STREET ADDRE	SS AND COMM	40N LANDN	1ARKS					
-	FROM	INTEF	RSE	CTION HW	Y 176 AND 18 (GON TU	RN R A	T CATTL	E GUARD	FOLLOW RD	TO LOC	ATION.	
				•						1			·
	(2.5 AC	RE)		(10 ACRE)	(40 ACRE)	(160 A	CRE)	SECTION		TOWNSHIP	NORTH	RANGE	EAST
٨L		1/4		1⁄4	1/4		1⁄4				🗌 зоџти		west
NO	SUBDIVIS	ION NAM	1E					LOT NUM	BER	BLOCK NUMBER		UNIT/TRA	СТ
ΓL													
õ	HYDROGE	RAPHIC S	URVE	EY	·····			1		MAP NUMBER		TRACT NU	JMBER
										L			
	LICENSE	NUMBER			NSED DRILLER					NAME OF WELL DE		IPANY	
		/14/8		EDWARD	3RYAN					STRAUB CO	RPORAI		
	DRILLING	STARTE	D	DRILLING END	ED DEPTH OF COM	PLETED WELL	. (FT)	BORE HO	E DEPTH (FT)	DEPTH WATER FIR	ST ENCOUN	TERED (FT)	
ING INFORMATION	9-	5-08		9-5-08		70			70		60		
								<u> </u>		STATIC WATER LE	VEL IN COM	PLETED WE	LL (FT)
LING INFORMATION	COMPLETED WELL IS: ARTESIAN				DRY HOLE	🖌 SHAL	LOW (UNCO	ONFINED)					
LING INFORMATION										1			
LING INFORMATIO	DRILLING FLUID: AIR												
ILLING INFORMAT	DRILLING METHOD: ROTARY			HAMMER	HAMMER CABLE TOOL OTHE			R - SPECIFY:					
DRILLING INFORM	DEPTH (FT) BORE HOLE		E (CASING		CONN	ECTION	INSIDE DIA.	CASING	WALL	SLOT		
RII	FROM	то		DIA. (IN)	M	ATERIAL		TYPE	(CASING)	CASING (IN)	THICKN	ESS (IN)	SIZE (IN)
3. D	70'	50	'	5	SCH 40	.010 SCR	EEN		FJ	2	0.1	54	.010
	50'	+43		5	SCH 4	PVC RIS	FR		F.J	2	0.1	54	RISER
			_										
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								<u> </u>					
	DEPT	TH (FT)		THICKNESS	; F4	ORMATION	DESCRIP	tion of p	RINCIPAL W	ATER-BEARING S	TRATA		YIELD
Υ.	FROM	TO		(FT)		(INCLUDI	E WATER-	BEARING	CAVITIES O	R FRACTURE ZON	ES)		(GPM)
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V.V	METHOD I	USED TO	ESTIN	MATE YIELD OF V	ATER-BEARING STR	ATA				TOTAL ESTIMATEI	WELL YIEL	D (GPM)	
4. 1													
										l			
	FOR OS	E INTER	INAT	USE						WELL RECO	RD & LOG	(Version 6	/9/08)
							D. 11(1) (D.C	<u> </u>			-	1 + 0131011 0	

TOROSEINTERNALOSE	•	WELL RECORD & LOO	(version 0/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 1 OF 2

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AL AND PUMP	TYPE OF PUMP:		USUBMERSIBLE		JET NO PUMP - WELL NOT EQUIPPED CYLINDER OTHER - SPECIFY:				
	ANNULAR SEAL AND GRAVEL PACK		DEPTH FROM	I (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPÉ AND SIZE	AMOUNT (CUBIC FT)	METH	OD OF MENT
			70'	47.9'	5	6 BAGS OF 20/40 SAND		TOPLOAD	
SE			47.9'	2'	5	8 BAGS OF 3/8 HOLEPLUG		TOPLOAD	
S.			2'	0	5	1 BAG OF CEMENT		TOPLOAD	
6. GEOLOGIC LOG OF WELL	DEPTH (ET)		THICKNER				WATER BEARING?		
	FROM TO		THICKNESS (FT)		COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				
	0 7		7		TAN FINE SAND - CALICHE			🗆 YES	🗹 NO
	7 11		4		TAN FINE SAND - SANDSTONE - CALICHE			T YES	Ø NO
	11	1 17 6			TAN FINE SAND - SANDSTONE		VES	О М 🖸	
	17	21	21 4		TAN FINE SAND - SANDSTONE - CALICHE		🗆 YES	NO 🖸	
	21	23	2		TAN FINE SAND			🗆 YES	NO 🖸
	23	54	4 31		RED FINE SAND - WITH CLAY LESS 5%			VES	NO 🖸
	54	64	10)	RED FINE SAND - CALICHE NODULES - WITH CLAY		VES	🗹 NO	
	64 70		6		RED VERY FINE SAND - CLAY			T YES	🗹 NO
	TD	70						□ YES	🗆 NO
								S YES	🗆 NO
								T YES	🗆 NO
								S YES	□ NO
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								🗖 YES	О П
								YES	□ NO
								VES	
								S YES	□ NO
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL							•	
IAL. INFO			METHOD: BAILER PUMP AIR LIFT OTHER – SPECIFY:						
	WELL TEST		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME,						
	AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.								
l 0 [ADDITIONAL STATEMENTS OR EXPLANATIONS:								
DIT	2X2 PAD - 4X4 HIGH RISER - 2X5 BOLARDS								
Q									
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7.									
URE	THE UNDERSIGNED HEREBY CERTIFIES THAT. TO THE BEST OF HIS OF HER KNOWLEDGE AND BELIEF. THE FOREGOING IS A TRUE AND								
	CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE I								ER AND
VAT.	THE FERMIT HOUDER WITHIN 20 DATS AFTER COMILETION OF WELL DALLENG.								
sig									
%	SIGNATURE OF DRILL			E OF DRILL	.ER	DATE			

 FOR OSE INTERNAL USE
 WELL RECORD & LOG (Version 6/9/08)

 FILE NUMBER
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 LOCATION
 PAGE 2 OF 2

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ATTACHMENT C

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Laboratory Analytical (On CD Only)

Analytical Report 1 (Dilution Factor: 100) – 172938 Analytical Report 2 (Dilution Factor: 10 for VOCs) – 172938 Analytical Report 3 (BTEX Only) – 174540

