MAR 27 2009



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IVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION EMERGENCY RESPONSE

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SOIL CLOSURE REPORT ARTESIA GATHERING SYSTEM PIPELINE (U-9-12 POLY) RELEASE EDDY COUNTY, NEW MEXICO

PREPARED FOR:

DCP MIDSTREAM 10 DESTA DRIVE SUITE 400W MIDLAND, TEXAS 79705

PREPARED BY:

TALON/LPE 2901 STATE HIGHWAY 349 MIDLAND, TEXAS 79706

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MARCH 6, 2009

SOIL CLOSURE REPORT

ARTESIA GATHERING SYSTEM PIPELINE (U-9-12 POLY) RELEASE EDDY COUNTY, NM

DCP MIDSTREAM 10 DESTA DRIVE SUITE 400W MIDLAND, TEXAS 79705

TALON/LPE PROJECT NO. DCPMID036SPL

Prepared by:

um

Kyle Summers, C.P.G. Senior Project Manager

yle Waggoner, P. G.

Regional Manager

Talon/LPE 2901 State Highway 349 Midland, Texas 79706

March 6, 2009

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1.0 INTRODUCTION

1.1 Objectives and Site Background

Talon/LPE (Talon) was retained by DCP Midstream (DCP) to provide environmental consulting and site remediation services at the DCP Artesia Gathering System Pipeline (U-9-12 Poly) Release near Loco Hills, Eddy County, New Mexico (site). The purpose of this report is to document initial response, assessment, and soil remediation activities undertaken as a result of this release.

The site is located off of a lease road, approximately 2.25 miles south and 1 mile east of Loco Hills, Eddy County, New Mexico. The GPS coordinates for the site are 32° 47.157' N latitude and 103° 57.427' W longitude. The release occurred on Federal land managed by the Bureau of Land Management (BLM). The land surrounding the site consists of moderately vegetated sandy hills with oil/gas producing facilities/appurtenances. No surface waters or water production wells were identified in the vicinity. The site location is depicted on the topographic map provided as Figure 1. An aerial photograph of the area is provided as Figure 2.

A crude oil release occurred at the site on January 13, 2009. DCP personnel estimate that 14 barrels of crude oil were released into an open pipeline trench which was under construction by Holly Energy Partners (Holly). Extremely sandy conditions greatly inhibited access to the site. Emergency recovery operations were not performed on the day of discovery, due to the inability to access the site with large trucks. Because one-call notification and archeology clearance were already in place for the pipeline construction, recovery operations utilizing heavy (tracked and large tire) equipment were initiated the following day (January 14, 2009), and reached completion on January 15, 2009. A Release Notification and Corrective Action Form C-141 was sent to Mr. Mike Bratcher of the New Mexico Oil Conservation Division (NMOCD) on January 20, 2009. The C-141 was also supplied to Mr. Jim Amos at the BLM. A copy of this form is presented in Appendix D. The release was caused when Holly trenching machinery severed the 6-inch DCP crude oil pipeline. The spill was contained within the pipeline excavation trench, and the visible release measured approximately 120 feet long by 30 inches wide. The total lateral extent of the final excavation measured approximately 120 feet long by 36 to 50 inches wide. The release area is depicted on Figure 3.

1.2 Regulatory Framework

1.2.1 Soil Delineation and Remediation

The NMOCD has developed guidance for all federal, state, and fee lands in New Mexico for remediating contaminants resulting from leaks, spills, and releases of oilfield wastes or products. This guidance assigns ranking scores to sites based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, and provides remediation/clean-up targets for benzene, Total BTEX (benzene, toluene, ethylbenzene, and xylenes), and total petroleum hydrocarbons (TPH). The release site is located in a rural area with no permanent residence or surface water within a 1,000 foot radius of the release point. According to information available from the New Mexico Office of the State Engineer, the nearest water well is not within 1,000 feet of the site. Based on information obtained from the NMOCD, the depth to groundwater in this area is greater than 200 feet.

According to NMOCD guidance, and based on depth to groundwater, distance from water supply sources, and distance to surface water bodies, the site ranking for this site is zero (0). The ranking process is summarized below:

<u>Criteria:</u>	Site Condition:	Ranking Score:
Depth to Groundwater	> 200 Feet	0
<1,000 Feet to Water Source?	No	0
<200 Feet to Private Domestic Water Source?	No	0
Distance to Surface Water Body	>1,000 feet	0
Total Ranking:		0

Based on the calculated rating, the applicable remediation guidelines for this site are as follows:

Benzene	10 ppm
Total BTEX	50 ppm
ТРН	5000 ppm

1.2.2 Regulatory Interaction

A Release Notification and Corrective Action Form C-141 was sent to Mr. Mike Bratcher of the NMOCD on January 20, 2009. The C-141 was also supplied to Mr. Jim Amos at the BLM. The release occurred when Holly trenching machinery severed the 6-inch DCP crude oil pipeline during pipeline installation activities. A copy of the Form C-141 is provided in Appendix D.

Analytical results and supplemental information were supplied to Mr. Bratcher on January 21, 2008. On January 22, 2008, Mr. Bratcher indicated by email that, based on the available data, the site should be ready for closure, and pipeline construction activities could continue.

2.0 INITIAL SITE ACTIVITIES

2.1 Emergency Response Activities

The damaged 6-inch pipeline was quickly shut down following the release. However, extremely sandy conditions in the area greatly inhibited access to the site to vehicles such as vacuum trucks. Because one-call notification and archeology clearance were already in place for the Holly pipeline construction activities, recovery operations utilizing heavy (tracked and large wheeled) equipment were initiated on the following day and are described in Section 3.

The release area is depicted on Figure 3. Photographs of the release area are provided in Appendix C.

3.0 SOIL EXCAVATION AND REMEDIATION ACTIVITIES

3.1 Excavation Activities

On January 13, 2009, DCP coordinated with B&H Maintenance and Construction (B&H) to mobilize a track-hoe to the spill location the following day. DCP also contacted Talon on January 13, 2009, to request environmental consulting services for the release. Talon representatives met with DCP on the morning of January 14, 2009 to evaluate the site. After confirming the inability to move large trucks near the vicinity of the spill due to sandy conditions, and with permission from DCP, Talon mobilized a large-wheeled front-end loader and six (6) short-bed (12-cubic yard (cy)) capacity dump trucks to the site.

Recovery/remediation operations were started in the late morning of January 14, 2009, using the track-hoe to remove the impacted material from the open pipeline trench. The removed material was loaded into the wheeled front-end loader and driven approximately 0.1 miles to the dump trucks which were stationed on the lease road. At the request of DCP, the removed crude oil affected soil was transported to Controlled Recovery Incorporated (CRI) near Hobbs, New Mexico (see Section 3.2). Additionally, two loads of clean caliche base material were brought to the site to stabilize potentially debilitating areas of the lease road that the dump trucks were traversing.

The existing pipeline trench measured approximately 30 inches wide and approximately 3.5 to 4 feet below ground surface (bgs). To prevent further migration during clean-up activities, overburden soils were used to stabilize the free product. Additionally, soil dams were utilized during the excavation to prevent free product from flowing back into remediated areas. The trench was excavated an average of two (2) to four (4) feet below the bottom of the pre-existing trench to remove the impacted material. The resulting excavation depth ranged from five (5) to eight (8) feet bgs, and measured approximately 120 feet in length, and from 36 to 50 inches wide. The excavation operations resulted in the removal of approximately 216 cy of material from the trench.

After the trench release area had been remediated, DCP requested Talon and B&H to remain on stand-by while final pipeline repair activities were conducted on the damaged pipeline. Following these repairs, an additional 24 cy of affected material were removed and transported to CRI. Site assessment and remediation activities were concluded at 4:30 PM on January 15, 2009.

The excavation limits were initially determined using visual and olfactory observations. Certified laboratory analyses ultimately determined actual excavation limits. Details of the soil sampling activities and certified laboratory results are presented in Section 4.0 and Appendix D, respectively. Figure 4 depicts the final excavation limits. Photographic documentation of the soil excavation activities is presented in Appendix C.

3.2 Soil Disposal Activities

All excavated affected soil (approximately 240 cubic yards) was transported via dump trucks to CRI near Hobbs, New Mexico. Waste manifests are provided in Appendix F.

3.3 Site Backfill and Leveling Activities

Analytical results and supplemental information were supplied to Mr. Bratcher on January 21, 2008. On January 22, 2008, Mr. Bratcher indicated by email that, based on the available data, the site should be ready for closure, and pipeline construction activities could continue. This information was relayed to DCP on the same day. Construction activities at the site were turned back over to Holly for pipeline completion.

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4.0 SOIL SAMPLING ACTIVITIES

4.1 Excavation Confirmation Soil Sampling

4.1.1 <u>Sample Collection</u>

On January 15, 2009, at the completion of excavation activities, Talon collected two (2) discrete confirmation soil samples (BH-1 and BH-2) from the bottom of the trench at approximately even spacing along the length of the trench. The approximate sample depth for each sample was eight (8) feet bgs. An additional sample (BH-3) was collected at the release point after pipeline repairs and the associated clean up activities were completed. The samples were submitted for laboratory analysis. Confirmation soil samples were collected by Talon personnel wearing clean nitrile gloves; therefore, no decontamination activities were conducted. Confirmation soil sampling locations are depicted on Figure 4.

The confirmation soil samples were containerized in laboratory provided sample containers, placed on ice, and transported to Trace Analysis, Inc. in Midland, Texas for TPH analysis using EPA SW-846 Method 8015 for gasoline and diesel range organics (GRO/DRO), and BTEX using EPA SW-846 Method 8021B. Additionally, sample BH-2 was analyzed for total chlorides. All analytical testing was performed on a rush turn-around basis.

4.1.2 Analytical Results

Analytical results indicate TPH and BTEX concentrations in all confirmation soil samples were below the applicable NMOCD remediation guidelines. The reported result of for total chlorides was 331 mg/kg. Certified copies of the laboratory analytical results and chain-of-custody documentation are presented in Appendix E. A summary of the excavation confirmation soil sample analytical results is presented on Table 1, Appendix B. Sample locations are presented on Figure 4.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

A crude oil release occurred at the site on January 13, 2009. DCP personnel estimate that 14 barrels were released into an open pipeline trench which was under construction by Holly Energy Partners. A total of approximately 240 yards of affected soil were excavated and transported to CRI. Soil samples were collected from the remediated excavation to verify excavation extent and remediation results. All final soil samples indicate TPH and BTEX concentrations are below applicable NMOCD remediation guidelines. Total chlorides were reported at 331 mg/kg for confirmation sample BH-2.

5.2 **Recommendations**

The following activities/actions are recommended for the site:

• Based on soil samples collected from the remediated excavation, TPH and BTEX concentrations are below the applicable NMOCD remediation guidelines. No further action is proposed and closure of site soils should be requested from the NMOCD.

7

APPENDIX A

FIGURES









APPENDIX B

TABLES.

Table 1 - Summary of Soil Analytical Data DCP Midstream Artesia Gathering Pipeline Release (U-9-12 Poly) Talon/LPE Project #: DCPMID036SPL

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Page 1 of 1

APPENDIX C

X.

PHOTOGRAPHIC DOCUMENTATION

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TALON/LPE Client: DCP Midstream Location: Artesia Gathering System Release Photograph Date: January 14-15, 2008

Photographic Documentation Prepared by: Shyla Harris Photographer: Kyle Summers & Tom Dewey

Photograph No. 1

Direction: South

Description: View of spill area



Photograph No. 2

Direction: South

Description: Damaged line at point of release



TALON/LPE

Client: DCP Midstream Location: Artesia Gathering System Release Photograph Date: January 14-15, 2008 **Photographic Documentation** Prepared by: Shyla Harris Photographer: Kyle Summers & Tom Dewey

Photograph No. 3

Direction: North

Description: View of spill area with damaged line in foreground



Photograph No. 4

Direction: North

Description: Line repair activities



TALON/LPE

Client: DCP Midstream Location: Artesia Gathering System Release Photograph Date: January 14-15, 2008

Photographic Documentation Prepared by: Shyla Harris Photographer: Kyle Summers & Tom Dewey

Photograph No. 5

Direction: North

Description: Line repair activities



Photograph No. 6 Direction:

Description: View of remediated trench



TALON/LPE

Client: DCP Midstream Location: Artesia Gathering System Release Photograph Date: January 14-15, 2008

Photographic Documentation Prepared by: Shyla Harris Photographer: Kyle Summers & Tom Dewey

Photograph No. 7

Direction: North

Description: Trench during remediation activities



Photograph No. 8

Direction: NA

Description: View into trench during remediation activities



NMOCD FORM C-141 ÷.,

APPENDIX D

55.

rench Dr., Hobbs, NM 88240 <u>Ad II</u> South First, Artesia, NM 88210 <u>istrict III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-141 Revised March 17, 1999

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

Release Notification and Corrective Action										
					OPE	RATOR		🗹 Ini	tial Rep	oort 🔲 Final Report
Name of Co	mpany					Contact				
DCP Midst	eam, LP					Jon D. Bebbington				
Address 10 DESTA	DR, SUIT	E 400-W, M	IDLANI	D <u>, TX</u> 79705	,	Telephone No. 432/620-4207				
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I hereby certif	y that the in	nformation giv	ven above	is true and compl	ete to th	e best of my	knowledge and u	nderstand t	hat purs	uant to NMOCD rules
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APPENDIX E

LABORATORY ANALYTICAL DATA REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

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Report Date: January 19, 2009 DCPMID036SPL

Summary Report

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX 79706

Report Date: January 19, 2009

Work Order: 9011618

Project Location:	Eddy Co., NM
Project Name:	DCP U-9-12 Poly Release
Project Number:	DCPMID036SPL

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
185044	BH-1	soil	2009-01-15	08:15	2009-01-16
185045	BH-2	soil	2009-01-15	08:20	2009-01-16

	TPH DRO	TPH GRO
,	DRO	GRO
Sample - Field Code	(тg/Кg)	(mg/Kg)
185044 - BH-1	61.0	<1.00
185045 - BH-2	262	1.42

Sample: 185044 - BH-1

Param	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.0100
Toluene		<0.0100	mg/Kg	0.0100
Ethylbenzene		<0.0100	mg/Kg	0.0100
Xylene		<0.0100	mg/Kg	0.0100
Total BTEX		<0.0600	mg/Kg	0.0600

Sample: 185045 - BH-2

Flag	Result	Units	\mathbf{RL}
	< 0.0100	mg/Kg	0.0100
	< 0.0100	mg/Kg	0.0100
	<0.0100	mg/Kg	0.0100
	<0.0100	mg/Kg	0.0100
·	<0.0600	mg/Kg	0.0600
	Flag	Flag Result <0.0100	Flag Result Units <0.0100

continued

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date DCPMID03	e: January 19, 2009 6SPL	Work Order: 9011618 DCP U-9-12 Poly Release		Page Number: 2 of 2 Eddy Co., NM
sample 1850	045 continued			
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TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data. RACEANA

6701 Aberdeen Avenue, Suite 9 200 East Sunset Road. Suite E 5002 Basin Street, Suite A1 8808 Camp Bowie Blvd. West, Suite 180

800 • 378 • 1296 Lubbock. Texas 79424 El Paso. Texas 79922 888 • 588 • 3443 Midland, Texas 79703 Ft. Worth, Texas 76116 E-Mail: lab@traceanalysis.com

806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301 817 • 201 • 5260

FAX 806 • 794 • 1298 FAX 915•585•4944 FAX 432 • 689 • 6313 FAX 817 • 560 • 4336

Certifications

WBENC: 237019

1752439743100-86536 HUB: NCTRCA WFWB38444Y0909

DBE: VN 20657

Midland: T104704392-08-TX

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317

El Paso: T104704221-08-TX LELAP-02002

Analytical and Quality Control Report

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX, 79706

Report Date: January 19, 2009

Work Order: 9011618

Eddy Co., NM Project Location: Project Name: DCP U-9-12 Poly Release DCPMID036SPL **Project Number:**

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc. Date Time Date

Sample	Description	Matrix	Taken	Taken	Received
185044	BH-1	soil	2009-01-15	08:15	2009-01-16
185045	BH-2	soil	2009-01-15	08:20	2009-01-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

wich. Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project DCP U-9-12 Poly Release were received by TraceAnalysis, Inc. on 2009-01-16 and assigned to work order 9011618. Samples for work order 9011618 were received intact at a temperature of 3.1 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B
Chloride (Titration)	SM 4500-Cl B
Total BTEX	S 8021B
IPH DRO	Mod. 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9011618 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: January 19, 2009 DCPMID036SPL

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Analytical Report

Sample: 185044 - BH-1

Laboratory:	Midland					
Analysis:	BTEX, Total BTEX	Analytical Method:	S 8021B	•	Prep Method:	S 5035
QC Batch:	56078	Date Analyzed:	2009-01-16		Analyzed By:	ME
Prep Batch:	47928	Sample Preparation:	2009-01-16		Prepared By:	ME

		\mathbf{RL}					
Parameter H	lag	Result		Units	D	ilution	\mathbf{RL}
Benzene		< 0.0100		mg/Kg		1	0.0100
Toluene		< 0.0100		mg/Kg		1	0.0100
Ethylbenzene		< 0.0100		mg/Kg		1	0.0100
Xylene		<0.0100		mg/Kg		1	0.0100
Total BTEX		<0.0600	<u></u>	mg/Kg		<u> </u>	0.0600
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.968	mg/Kg	1	1.00	97	68 - 136.9
4-Bromofluorobenzene (4-BF)	B)	0.947	mg/Kg	1	1.00	95	48.2 - 155

Sample: 185044 - BH-1

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO 56083 47905		Analytical M Date Analyze Sample Prepa	ethod: Mod. ed: 2009-0 aration: 2009-0	8015B 1-16 1-16	Prep M Analyz Prepar	Method: N/A ed By: LD ed By: LD
			RL				
Parameter	F	lag	Result	Un	its	Dilution	\mathbf{RL}
DRO	·····		61.0	mg/l	Kg	11	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	9	85.0	mg/Kg	1	100	85	10 - 250.4

Sample: 185044 - BH-1

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	56079	Date Analyzed:	2009-01-16	Analyzed By:	ME
Prep Batch:	47928	Sample Preparation:	2009-01-16	Prepared By:	ME

Report Date: January 19, DCPMID036SPL	ort Date: January 19, 2009 Work Order: 9011618 PMID036SPL DCP U-9-12 Poly Release					Page Number: 4 of 12 Eddy Co., NM			
		RL							
Parameter	Flag	Result		Units		Dilution	RL		
GRO		<1.00		mg/Kg		1	1.00		
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	8	0.996	mg/Kg	1	1.00	100	67.5 - 135.2		
4-Bromofluorobenzene (4-E	IFB)	0.961	mg/Kg	1	1.00	96	63.8 - 141		
Sample: 185045 - BH-2									
Laboratory: Midland									
Analysis: BTEX, 10ta	IBTEX	Anal	ytical Metho	d: S 8021B		Prep Me	thod: S 5035		
QC Batch: 56078		Date	Analyzed:	2009-01	-16	Analyzeo	1 By: ME		
Prep Batch: 47928		Samp	ne Preparati	ion: 2009-01-	-10	Preparec	IBY: ME		
		RL							
Parameter	Flag	Result	;	Units		Dilution	RL		
Benzene		< 0.0100)	mg/Kg		1	0.0100		
Toluene		< 0.0100)	mg/Kg		1	0.0100		
Ethylbenzene		< 0.0100)	mg/Kg		1	0.0100		
Xylene		< 0.0100)	mg/Kg		1	0.0100		
Total BTEX		< 0.0600)	mg/Kg		1	0.0600		
					Spike	Percent	Recovery		
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits		
Trifluorotoluene (TFT)		0.922	mg/Kg	1	1.00	92	68 - 136.9		
	ED)	1.03	mø/Kø	1	1.00	103	48 2 - 155		

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Laboratory: Midland Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A Date Analyzed: QC Batch: Analyzed By: 56051 2009-01-16 AR Prep Batch: 47901 Sample Preparation: 2009-01-16 Prepared By: AR RL Result Units Dilution Parameter Flag \mathbf{RL} 331 Chloride 50 4.00 mg/Kg

ytical Method Analyzed: ole Preparatio RL sult 262 nits I 5/Kg	l: Mod. 801 2009-01-10 on: 2009-01-10 <u>Units</u> <u>mg/Kg</u> Dilution 1	5B 6 5 Spike <u>Amount</u> 100	Prep M Analyz Prepare Dilution 1 Percent Recovery 111	fethod: N/ ed By: LD ed By: LD R 50. Recover Limits 10 - 250.
ytical Method Analyzed: ole Preparatio RL sult 262 nits I g/Kg	l: Mod. 801 2009-01-10 on: 2009-01-10 <u>Units</u> mg/Kg Dilution	5B 6 5 Spike <u>Amount</u> 100	Prep M Analyz Prepare Dilution 1 Percent Recovery 111	fethod: N/ ed By: LD ed By: LD R 50. Recover Limits 10 - 250.
RL sult 262 nits I g/Kg	Units mg/Kg Dilution 1	Spike Amount 100	Dilution 1 Percent Recovery 111	R 50. Recover Limits 10 - 250.
sult 262 nits I 5/Kg	Units mg/Kg Dilution 1	Spike Amount 100	Dilution 1 Percent Recovery 111	Recover Limits 10 - 250.
nits I g/Kg	mg/Kg Dilution 1	Spike Amount 100	Percent Recovery 111	Recover Limits 10 - 250.
nits I g/Kg	Dilution 1	Spike Amount 100	Percent Recovery 111	Recover Limits 10 - 250.
g/Kg	1	100	111	10 - 250.
ole Preparatio	n: 2009-01-16	3	Prepared	By: ME
	Units		Dilution	R
14 Theite		Spike	Percent	Recovery
R Onts	r = 1		<u> </u>	67.5 - 135
18 mg/Kg	g <u>1</u>	1.00	118	63.8 - 141
e Analyzed: Preparation:	2009-01-16 2009-01-16		Analy: Prepa	zed By: AR red By: AR
MI Resi	DŁ 1lt	Uni	its	R
<2.	01	mg/	'Kg	4
	rtical Method Analyzed: de Preparatio RL ult 42 lt Units 8 mg/Kg 8 mg/Kg 8 mg/Kg Preparation: MI Rest <2.	<pre>/tical Method: S 8015B Analyzed: 2009-01-16 le Preparation: 2009-01-16 RL ult Units 42 mg/Kg lt Units Dilution 8 mg/Kg 1 .8 mg/Kg 1 .8 mg/Kg 1 .9 Analyzed: 2009-01-16 Preparation: 2009-01-16 MDL Result <2.01</pre>	/tical Method: S 8015B Analyzed: 2009-01-16 le Preparation: 2009-01-16 RL ult Units 42 mg/Kg k Units Spike lt Units Dilution Amount 8 mg/Kg 1 1.00 8 mg/Kg 1 1.00 Analyzed: 2009-01-16 Preparation: 2009-01-16 MDL MDL MDL NDL Result Un description Mg/Kg	/tical Method: S 8015B Prep Met Analyzed: 2009-01-16 Analyzed le Preparation: 2009-01-16 Prepared RL Ult Units Dilution 42 mg/Kg 1 1 42 mg/Kg 1 1.00 99 8 mg/Kg 1 1.00 118 Analyzed: 2009-01-16 Analyzed Prepar Preparation: 2009-01-16 Prepar MDL Result Units <2.01

Prepared By: ME

 QC Batch:
 56078
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 Prep Batch:
 47928
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QC Preparation: 2009-01-16

Report Date: January DCPMID036SPL	eport Date: January 19, 2009 CPMID036SPL			Work Order: 9011618 DCP U-9-12 Poly Release					
			ME	L					
Parameter	Flag		Resu	ilt	U	Inits	RL		
Benzene			< 0.005	80	\mathbf{m}_{i}	g/Kg	0.01		
Toluene			< 0.004	70	\mathbf{m}_{i}	g/Kg	0.01		
Ethylbenzene			<0.005	30	m	g/Kg	0.01		
Aylene	<u> </u>		<0.01	30	m	g/Kg	0.01		
Surrogata	Flag	Regult	Unita	Dilution	Spike	Percent	Recovery		
Trifuorotoluene (TFT)	Fiag	0 022	mg/Kg			necovery			
4-Bromofluorobenzene (4-BFR)	0.922	mg/Kg	1	1.00	92 90	40.3 - 132.3 37 7 - 198 Q		
Method Blank (1)	QC Batch: 56079								
OC Batch: 56070		Data An	alwood 90	00 01 16		Anal	wood Bue ME		
Pren Batch 47028		OC Pren	aration 20	09-01-10		Prens	ared By: ME		
				05-01-10		1 1006	med by. Init		
_			MDL						
Parameter	Flag		Result		U1	nits	RL		
GRU			0.402		mg	/Kg	1		
					Spike	Percent	Recovery		
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits		
Trifluorotoluene (TFT)		0.970	mg/Kg	1	1.00	97	39.2 - 135.2		
4-Bromofluorobenzene (4	4-BFB)	0.916	mg/Kg	1	1.00	92	16.8 - 138.1		
Method Blank (1)	QC Batch: 56083								
QC Batch: 56083		Date An	alyzed: 20	09-01-16		Anal	vzed By: LD		
Prep Batch: 47905		QC Prep	aration: 20	09-01-16		Prep	ared By: LD		
			MDL						
Parameter	Flag		Result		Ur	nits	RL		
DRO			<15.8		mg	/Kg	50		
					Spike	Percent	Recovery		
Surrogate Fla	ng Result	Units	Dilut	ion	Amount	Recovery	Limits		
		dat a							

Laboratory Control Spike (LCS-1)

QC Batch:	56051	Date Analyzed:	2009-01-16	Analyzed By:	AR
Prep Batch:	47901	QC Preparation:	2009-01-16	Prepared By:	AR

Report Date: January 19, 2009 DCPMID036SPL	Work Order: 9011618 DCP U-9-12 Poly Release							Page Number: 7 of 12 Eddy Co., NM				
Param Chlorida	LC Res	CS ult	Units	Dil.		Spike Amount		Matrix Result	t Re	C.	Rec.	
	97	.9	ing/K	<u>g 1</u>		100		<2.01	90	<u> </u>	55 - 115	
Percent recovery is based on the s	spike result.	RPD is	based	on the spil	e and	spike dı	iplicat	e resu	lt.			
	LCSD			Spil	æ	Matrix			Rec.		RPD	
Param	Result	Units	Di	il. Amou	int	Result	Re	с.	Limit	RPD	Limit	
Chloride	100	mg/K	g 1	. 100)	<2.01	10	0 8	5 - 115	3	20	
Percent recovery is based on the s	spike result.	RPD is	based	on the spik	e and	spike dı	plicat	e resu	lt.		·	
Laboratory Control Spike (L	CS-1)	D / A		1 0000								
UC Batch: 56078 Brep Batch: 47029		Date A	nalyzed	1: 2009-()1-16				Anal	yzed By	: ME	
Prep Datch: 47928		QU Pre	eparatio	on: 2009-0)1-10				Prep	ared By	: ME	
	LCS	;			Spi	ike	Ma	trix]	Rec.	
Param	Resu	lt[Jnits	Dil.	Amo	ount	Res	ult	Rec.	I	imit	
Benzene	0.864	1 m	g/Kg	1	1.0)0	<0.0	0580	86	73.3	- 116.6	
Toluene	0.889) m	g/Kg	1	1.0	00	<0.0	0470	89	78.6	- 115.1	
Ethylbenzene	0.870	5 m	g/Kg	1	1.0	90	< 0.0	0530	88	77.4	- 114.9	
Xylene	2.05	m	g/Kg	<u> </u>	3.0		<0.0)136	88	78.2	- 114.7	
Percent recovery is based on the s	pike result.	RPD is	based	on the spik	e and	spike du	plicat	e resu	lt.			
	LCSD			Spike	M	atrix			Rec.		RPD	
Param	Result	Units	Dil.	Amount	R	esult	Rec.]	Limit	RPD	Limit	
Benzene	0.928	mg/Kg	1	1.00	<0.	00580	93	73.3	3 - 116.6	7	20	
Foluene	0. 963	mg/Kg	1	1.00	<0.	00470	96	78.6	6 - 115.1	8	20	
Ethylbenzene	0.950	mg/Kg	1	1.00	<0.	00530	95	77.4	4 - 114.9	8 -	20	
Xylene	2.88	mg/Kg	1	3.00	<0	.0136	96	78.2	2 - 114.7	8	20	
Percent recovery is based on the s	pike result.	RPD is	based	on the spik	e and	spike du	plicat	e resul	lt.			
	LCS	LC	SD			Spik	e	LCS	LCSD]	Rec.	
Surrogate	Resul	t Re	sult	Units	Dil.	Amou	int	Rec.	Rec.	I	imit	
Trifluorotoluene (TFT)	0.942	2 0.9	64	mg/Kg	1	1.00)	94	<u>9</u> 6	45	- 124.2	
-Bromofluorobenzene (4-BFB)	0.933	<u> </u>	980	mg/Kg	1	1.00)	93	98	47.2	- 130.4	
Laboratory Control Spike (LC	CS-1)											
QC Batch: 56079		Date A	alyzed	l: 2009-0	1-16				Anal	vzed Bv	: ME	
Prep Batch: 47928		QC Pre	paratic	on: 2009-0)1-16				Prep	ared By	: ME	
	tre	2			C.	nike	Ма	triv		1	Roc	
Param	Reen	, lt	Unite	Dil	Δm	pine Dount	Re	sult	Rec	T	.imit	
3BO	<u> </u>	l n	omis ng/Kg	1	1	0.0	<u></u>	449		57 5	- 106 A	
UIW	0.17	· •	-0/6	-	1	U.U	~ 0	4 2 4	01	01.0	100.1	

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	8.49	mg/Kg	1	10.0	< 0.442	85	57.5 - 106.4	4	20
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.									

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.00	0.994	mg/Kg	1	1.00	100	99	63.8 - 134.3
4-Bromofluorobenzene (4-BFB)	0.972	0.969	mg/Kg	1	1.00	97	97	53.3 - 123.6

Laboratory Control Spike (LCS-1)

QC Batch:	56083	Date Analyzed:	2009-01-16	Analyzed By:	LD
Prep Batch:	47905	QC Preparation:	2009-01-16	Prepared By:	LD

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	245	mg/Kg	1	250	<15.8	98	27.8 - 152.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	233	mg/Kg	1	250	<15.8	93	27.8 - 152.1	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	87.6	84.2	mg/Kg	1	100	88	84	38 - 130.4

Matrix Spike (MS-1) Spiked Sample: 184983

QC Batch:	56051	Date Analyzed:	2009-01-16	Analyzed By:	AR
Prep Batch:	47901	QC Preparation:	2009-01-16	Prepared By:	AR

	MS			Spike	Matrix		Rec.	
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	
Chloride	5490	mg/Kg	50	5000	382	102	85 - 115	
Percent recovery is based on	the spike result. RPD	is based on	the spike a	and spike dupl	icate result.			

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	5560	mg/Kg	50	5000	382	104	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.
Matrix Spike (MS-1) Spiked Sample: 185125

QC Batch: Prep Batch:	56078 47928	Da QC	te Analyzed: Preparation:		Analyzed By: MI Prepared By: MI			
Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	······································	4.69	mg/Kg	5	5.00	< 0.0290	94	62.2 - 134.3
Toluene		4.83	mg/Kg	5	5.00	0.6597	83	62.6 - 145.4
Ethylbenzene	e	5.41	mg/Kg	5	5.00	< 0.0265	108	64.6 - 146.4
Xylene		15.4	mg/Kg	5	15.0	2.706	85	64.3 - 148.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limiț
Benzene	4.74	mg/Kg	5	5.00	< 0.0290	95	62.2 - 134.3	1	20
Toluene	4.87	mg/Kg	5	5.00	0.6597	84	62.6 - 145.4	1	20
Ethylbenzene	5.16	mg/Kg	5	5.00	< 0.0265	103	64.6 - 146.4	5	20
Xylene	14.9	mg/Kg	5	15.0	2.706	81	64.3 - 148.8	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	4.81	4.80	mg/Kg	5	5	96	96	38.8 - 127.5
4-Bromofluorobenzene (4-BFB)	5.39	5.47	mg/Kg	5	5	108	109	49.3 - 142.4

Matrix Spike (MS-1) Spiked Sample: 185114

QC Batch:	56079	Date Analyzed:	2009-01-16		Analyzed By:	ME
Prep Batch:	47928	QC Preparation:	2009-01-16		Prepared By:	ME
		MC	0.1.	N Contraction		

	MS			Spike	Matrix		Rec.
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit
GRO	51.9	mg/Kg	5	50.0	2.5628	99	10 - 139.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
GRO	55.5	mg/Kg	5	50.0	2.5628	106	10 - 139.3	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	5.00	4.98	mg/Kg	5	5	100	100	21.3 - 119
4-Bromofluorobenzene (4-BFB)	4.92	4.98	mg/Kg	5	5	98	100	52.5 - 154

DCPMID036SPL), 2009		Work Or DCP U-9-1	der: 90116 12 Poly Re	i18 lease	Eddy Co., NM					
Matrix Spike (MS-1)	Spiked Sample	: 185044									
QC Batch: 56083 Prep Batch: 47905		Date 2 QC Pi	Analyzed: reparation:	2009-01- 2009-01-	16 16		Ana Prep	lyzed By bared By	r: LD r: LD		
		MS	TT 1.		Spike	Matr	ix		Rec.		
Param DRO	<u>R</u>	<u>esuit</u> 254	Units mg/Kg	<u> </u>	Amount 250	Kesu 61	$\frac{1t}{77}$	18	- 179 5		
Percent recovery is based	on the spike resu	lt RPD i	s haved on	the snike s	nd spike du	nlicate re			- 110.0		
ercent recovery is based	on the spike resu		based on	the spike a	un shike an	pilcate re	Suit.				
_	MSD			Spike	Matrix	_	Rec.		RPD		
Param	Result	t Units	$\frac{Dil}{\alpha}$	Amount	Kesult	Rec.	Limit	<u></u>	Limit		
	291		<u>g 1</u>	250		92	18 - 179.5		20		
ercent recovery is based	on the spike resu	It. RPD 18	based on t	the spike a	ind spike du	plicate re	sult.				
	MS M	SD			Spike	MS	MSD		Rec.		
Jurrogate	Result Re	sult	Units	Dil.	Amount	Rec.	Rec.		Limit		
1-Triacontane	81.8 8	1.8	mg/Kg	1	100	82	82	34	.1 - 158		
		ICVs True	IC For	Vs und	ICVs Percent	F	Percent Recovery	:	Date		
Param Flag	Units	<u>Conc.</u>	<u> </u>	$\frac{nc.}{2}$	Recovery		Limits	<u>An</u>	alyzed		
Standard (CCV-1))C Batch: 56051		Date A	nalyzed:	2009-01-16	3	·	Anal	yzed By	: AR		
Standard (CCV-1))C Batch: 56051		Date A	Inalyzed:	2009-01-16	3		Anal	lyzed By	: AR		
Standard (CCV-1) QC Batch: 56051		Date A CCVs	Analyzed: CC	2009-01-16 CVs	6 CCVs Porcent	·	Anal	lyzed By	: AR		
Standard (CCV-1) QC Batch: 56051 Param Flag	Units	Date A CCVs True Conc.	Analyzed: CC Foi Co	2009-01-16 CVs und nc.	6 CCVs Percent Recovery	F	Anal Percent Lecovery Limits	lyzed By]	: AR Date		
Standard (CCV-1) QC Batch: 56051 Param Flag	Units mg/Kg	Date A CCVs True Conc. 100	Analyzed: CC Fou 1(2009-01-16 CVs und onc. 01	CCVs Percent Recovery 101	F	Anal Percent lecovery Limits 35 - 115	lyzed By j <u>An</u> 200	: AR Date alyzed 9-01-16		
Standard (CCV-1) QC Batch: 56051 Param Flag Chloride Standard (ICV-1) QC Batch: 56078	Units mg/Kg	Date A CCVs True Conc. 100 Date A	Inalyzed: CC Foi Co 10 .nalyzed:	2009-01-16 CVs ind nc. 01 2009-01-16	CCVs Percent Recovery 101	F	Anal Percent lecovery Limits 35 - 115 Anal	lyzed By An 200 yzed By	: AR Date alyzed 9-01-16 : ME		
Standard (CCV-1) QC Batch: 56051 Param Flag Chloride Standard (ICV-1) QC Batch: 56078	Units mg/Kg	Date A CCVs True Conc. 100 Date A	Inalyzed: CC For Co 1(Inalyzed:	2009-01-16 CVs und nc. 01 2009-01-16	CCVs Percent Recovery 101	F {	Anal Percent Lecovery Limits 35 - 115 Anal	lyzed By An 200 yzed By	: AR Date alyzed 9-01-16 : ME		
Standard (CCV-1) QC Batch: 56051 Caram Flag Chloride Standard (ICV-1) QC Batch: 56078	Units mg/Kg_	Date A CCVs True Conc. 100 Date A ICV	Analyzed: CC For Co 10 Analyzed: 's]	2009-01-16 UVs und nc. 01 2009-01-16 ICVs	CCVs Percent Recovery 101	F 	Anal Percent Lecovery Limits 35 - 115 Anal Percent	lyzed By An 200 yzed By	: AR Date alyzed 9-01-16 : ME		
Standard (CCV-1) QC Batch: 56051 Param Flag Chloride Standard (ICV-1) QC Batch: 56078	Units mg/Kg	Date A CCVs True Conc. 100 Date A ICV Tru Con	Inalyzed: CO For Co Inalyzed: 's I e F C. C	2009-01-16 CVs ind nc. 01 2009-01-16 ICVs Found Conc.	CCVs Percent Recovery 101 ICVs Percent Recovery	F { {	Anal Percent Lecovery Limits 35 - 115 Anal Percent Recovery Limits	lyzed By An 200 yzed By	: AR Date alyzed 9-01-16 : ME Date alyzed		

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Report Date: J DCPMID036SF	anuary 19, PL	2009	W DCF	ork Order: 901 P U-9-12 Poly F	1618 Release	Page Number: 11 of 12 Eddy Co., NM				
standard contin	ued									
•••			ICVs	ICVs	ICVs	Percent	:			
			True	Found	Percent	Recovery	Date			
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
Toluene	8	mg/Kg	0.100	0.0941	94	85 - 115	2009-01-16			
Ethylbenzene		mg/Kg	0.100	0.0934	93	85 - 115	2009-01-16			
Xylene		mg/Kg	0.300	0.282	94	85 - 115	2009-01-16			
Standard (CC	V-1)									
QC Batch: 560)78		Date Analy	zed: 2009-01	-16	Anal	yzed By: ME			
			CCVs	CCVs	CCVs	Percent				
			True	Found	Percent	Recovery	Date			
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
Benzene	0	mg/Kg	0.100	0.0908	91	85 - 115	2009-01-16			
Toluene		mg/Kg	0.100	0.0927	93	85 - 115	2009-01-16			
Ethylbenzene		mg/Kg	0.100	0.0889	89	85 - 115	2009-01-16			
Xylene		mg/Kg	0.300	0.270	90	85 - 115	2009-01-16			
Standard (IC)	V-1)									
QC Batch: 560)79		Date Analy	zed: 2009-01-	-16	Anal	yzed By: ME			
			ICVs	ICVs	ICVs	Percent				
			True	Found	Percent	Recovery	Date			
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
GRO		mg/Kg	1.00	1.02	102	85 - 115	2009-01-16			
Standard (CC	V-1)									
	70		Data Anula		16	A 1-				
QC Datch: 500	119		Date Analy	Zed: 2009-01-	10	Anar	vzeu by: ME			
			CCVs	CCVs	CCVs	Percent				
		0	True	Found	Percent	Recovery	Date			
Param 1	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed			
CRO		mg/Kg	1.00	0.982	98	85 - 115	2009-01-16			

Standard (CCV-1)

QC Batch: 56083

Date Analyzed: 2009-01-16

Analyzed By: LD

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Report Da DCPMID0	te: January 1 36SPL	9, 2009	DC	Work Order: 90 CP U-9-12 Poly	Page Number: 12 of 12 Eddy Co., NM			
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	
DRO		mg/Kg	250	252	101	85 - 115	2009-01-16	
Standard	(CCV-2)							
Standard QC Batch:	(CCV-2) 56083		Date Ana	alyzed: 2009-0	1-16	Ana	lyzed By: LD	
Standard QC Batch:	(CCV-2) 56083		Date Ana CCVs True	alyzed: 2009-0 CCVs Found	1-16 CCVs Percent	Ana Percent Recovery	lyzed By: LD Date	
Standard QC Batch: Param	(CCV-2) 56083 Flag	Units	Date Ana CCVs True Conc.	alyzed: 2009-0 CCVs Found Conc.	1-16 CCVs Percent Recovery	Ana Percent Recovery Limits	lyzed By: LD Date Analyzed	

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Report Date: January 19, 2009 DCPMID036SPL

Summary Report

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX 79706

Report Date: January 19, 2009

Work Order: 9011633

Project Location:Eddy Co, NMProject Name:DCP U-9-12 Poly ReleaseProject Number:DCPMID036SPL

185162	BH-3	soil	2009-01-15	13:15	2009-01-16
Sample	Description	Matrix	Taken	Taken	Received
			Date	Time	Date

	TPH DRO	TPH GRO
	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)
185162 - BH-3	182	<1.00

Sample: 185162 - BH-3

Param	Flag	Result	Units	\mathbf{RL}
Benzene		< 0.0100	mg/Kg	0.0100
Toluene		<0.0100	mg/Kg	0.0100
Ethylbenzene		<0.0100	mg/Kg	0.0100
Xylene		<0.0100	mg/Kg	0.0100
Total BTEX		<0.0600	mg/Kg	0.0600

6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 8808 Camp Bowie Blvd. West, Suite 180 Ft. Worth, Texas 76116

Lubbock, Texas 79424 800 • 378 • 1296 888 • 588 • 3443 Texas 79922 El Paso. Midland, Texas 79703

806 • 794 • 1296 FAX 806 • 794 • 1298 915 • 585 • 3443 FAX 915•585•4944 432 • 689 • 6301 817 • 201 • 5260

FAX 432•689•6313 FAX 817 • 560 • 4336

E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

1752439743100-86536 HUB: NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317

El Paso: T104704221-08-TX LELAP-02002

Midland: T104704392-08-TX

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Analytical and Quality Control Report

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX, 79706

Report Date: January 19, 2009

Work Order: 9011633

Eddy Co, NM Project Location: **Project Name:** DCP U-9-12 Poly Release **Project Number:** DCPMID036SPL

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc. Date Date Time Sample Description Matrix Taken Taken Received 2009-01-16 185162 BH-3 soil 2009-01-15 13:15

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich,

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project DCP U-9-12 Poly Release were received by TraceAnalysis, Inc. on 2009-01-16 and assigned to work order 9011633. Samples for work order 9011633 were received intact at a temperature of 2.9 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B
Total BTEX	S 8021B
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9011633 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: January 19, 2009 DCPMID036SPL

Work Order: 9011633 DCP U-9-12 Poly Release Page Number: 3 of 9 Eddy Co, NM

Analytical Report

Sample: 185162 - BH-3

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX, Total BTEX 56078 47928		Analytical Method: Date Analyzed: Sample Preparation:		l: S 8021B 2009-01-16 on: 2009-01-16	5	Prep Meth Analyzed I Prepared F	od: S 5035 By: ME By: ME
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
Benzene			<0.0100		mg/Kg		1	0.0100
Toluene			<0.0100		mg/Kg		1	0.0100
Ethylbenzene			<0.0100		mg/Kg		1	0.0100
Xylene			<0.0100		mg/Kg		1	0.0100
Total BTEX			< 0.0600		mg/Kg		1	0.0600
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)		0.892	mg/Kg	1	1.00	89	68 - 136.9
4-Bromofluor	obenzene (4-BFB)		0.960	mg/Kg	1	1.00	96	48.2 - 155

Sample: 185162 - BH-3

Laboratory:MidlandAnalysis:TPH DROQC Batch:56083Prep Batch:47905		Analytical M Date Analyze Sample Prepa	ethod: Mod. a cd: 2009-0 aration: 2009-0	8015B 1-16 1-16	Prep M Analyz Prepar	fethod: N/A and By: LD and By: LD	
Parameter	Fla	σ.	RL Besult	Un	ita	Dilution	RL
DRO		<u></u>	182	mg/I	Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	9	110	mg/Kg	1	100	110	10 - 250.4

Sample: 185162 - BH-3

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Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	56079	Date Analyzed:	2009-01-16	Analyzed By:	ME
Prep Batch:	47928	Sample Preparation:	2009-01-16	Prepared By:	ME

Report Date: January 19, 200 DCPMID036SPL		E	Work Or OCP U-9-	rder: 901 12 Poly I		Page Number: 4 of 9 Eddy Co, NM			
		RL							
Parameter Fla	g	Result		τ	Inits		Dilution		RI
GRO	.	<1.00		mg	/Kg		1	,	1.00
<u></u>									
0		n 1.	TT • 4	D.1		Spike	Percent	Reco	very
Surrogate	Flag	Result	Units	Dil	ution	Amount	Recovery	Lim	nts
Trifluorotoluene (TFT)		0.967	mg/Kg	3	1	1.00	97	67.5 -	135.2
4-Bromonuorobenzene (4-Br)	1.03	mg/Kg	5	1	1.00	103	03.8 -	- 141
Method Blank (1) QC	Batch: 56078							,	
OC Batch: 56078		Date An	alvzed	2000-01.	.16		Analı	zed By:	ME
Prep Batch: 47928		QC Prep	aration:	2009-01	-16		Prepa	red By:	ME
			1	MDI.					
Parameter	Flag	Result Units							RL
Benzene			<0.0	0580		mg/	/Kg		0.01
Toluene			<0.0	0470		mg/	/Kg		0.03
Ethylbenzene			<0.0	0530		mg/	/Kg		0.01
Xylene			<0.	.0136		mg/	/Kg		0.01
Sumorato	Flog	Pogul+	Unito	D:1.	ution	Spike	Percent	Reco	very
Trifuorotoluene (TFT)	Flag	0.022	mg/Kg	D	1	Amount		19.2	122 6
4-Bromofluorobenzene (4-BFF	()	0.922	mg/Kg	5	1	1.00	92	40.3 -	128.0
	·/			<u>></u>	<u> </u>	.1.00		01.1 -	120.5
Method Blank (1) QC	Batch: 56079							,	
QC Batch: 56079		Date Ana	lyzed:	2009-01-	-16		Analy	zed By:	ME
Prep Batch: 47928		QC Prepa	aration:	2009-01-	-16		Prepa	red By:	ME
			MD	DL					
Parameter	Flag		Resu	ılt		Uni	ts		RL
GRO			0.4	62	·	mg/l	Kg		1
						Spike	Percent	Reco	very
Surrogate	Flag	Result	Units	Dilu	ition	Amount	Recovery	Lim	nits
Trifluorotoluene (TFT)		0.970	mg/Kg	5	1	1.00	97	39.2 -	135.2
	1	0.016	malka	-	1	1 00	02	16.8 -	138.1

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QC Batch:	56083	Date Analyzed:	2009-01-16	Analyzed By:	LD
Prep Batch:	47905	QC Preparation:	2009-01-16	Prepared By:	LD

Report Date: January 19, 2009 DCPMID036SPL			W DCI	Vork Order: 9011 P U-9-12 Poly R	Page	Page Number: 5 of 9 Eddy Co, NM		
Parameter		Flag		MDL Result		Units	RL	
DRO			· · · · · · · · · · · · · · · · · · ·	<15.8	1	mg/Kg		
Surrogate n-Triacontane	Flag	Result 55.0	Units mg/Kg	Dilution	Spike Amount 100	Percent Recovery 55	Recovery Limits 30.9 - 146.4	

Laboratory Control Spike (LCS-1)

Xylene

QC Batch: Prep Batch:	56078 47928	Da QC	te Analyzed: Preparation	2009- n: 2009-	01-16 01-16	Analy Prepa	rzed By: ME ared By: ME	
Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		0.864	mg/Kg	1	1.00	< 0.00580	86	73.3 - 116.6
Toluene		0.889	mg/Kg	1	1.00	< 0.00470	89	78.6 - 115.1
Ethylbenzene	е	0.876	mg/Kg	1	1.00	<0.00530	88	77.4 - 114.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

mg/Kg

2.65

	LCSD			Spike	Matrix		Rec.		RPD	
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
Benzene	0.928	mg/Kg	1	1.00	< 0.00580	93	73.3 - 116.6	7	20	
Toluene	0.963	mg/Kg	1	1.00	< 0.00470	96	78.6 - 115.1	8	20	
Ethylbenzene	0.950	mg/Kg	1	1.00	< 0.00530	95	77.4 - 114.9	8	20	
Xylene	2.88	mg/Kg	1	3.00	< 0.0136	96	78.2 - 114.7	8	20	

1

3.00

< 0.0136

88

78.2 - 114.7

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.942	0.964	mg/Kg	1	1.00	94	96	45 - 124.2
4-Bromofluorobenzene (4-BFB)	0.933	0.980	mg/Kg	1	1.00	93	98	47.2 - 130.4

Laboratory Control Spike (LCS-1)

QC Batch:	56079	Dat	e Analyzed:	2009-0	1-16		Analy	zed By: ME
Prep Batch:	47928	QC	Preparation:	2009-0	1-16		Prepa	red By: ME
		LCS		-	Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		8.14	mg/Kg	1	10.0	< 0.442	81	57.5 - 106.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: January 19, DCPMID036SPL	2009	<u>.</u>		Work DCP U	Corder: 90	011633 7 Release	e			Page	Numbe Eddy	r: 6 of 9 Co, NM
_		LCSD			Spike	Mat	trix			Rec.		RPD
Param		Result	Units	Dil.	Amoun	t Res	ult	Rec.	I	.imit	RPD	Limit
GRO		8.49	mg/Kg		10.0	<0.	442	85	57.5	- 106.4	4	20
Percent recovery is based of	n the sp	oike result.	RPD is	based o	on the spik	e and sp	pike dı	uplicat	e resu	lt.		
		LCS	LC	SD ·			Spil	(P	LCS	LCSD	1	Rec.
Surrogate		Resu	lt Res	alt	Units	Dil.	Amo	unt	Rec.	Rec.	I	imit
Trifluorotoluene (TFT)		1.00	0.9	94	mg/Kg	1	1.0	0	100	99	63.8	- 134.3
4-Bromofluorobenzene (4-B	FB)	0.97	2 0.9	69	mg/Kg	1	1.0	0	97	97	53.3	- 123.6
Laboratory Control Spil QC Batch: 56083 Prep Batch: 47905	ke (LC	S-1)	Date Ar QC Pre	nalyzed paratio	l: 2009-(n: 2009-(01-16 01-16				Anal Prep	yzed By ared By	y: LD y: LD
		LC	5			Spi	ke	Ma	trix		J	Rec.
Param		Resu	it l	Units	Dil.	Amo	ount	Re	sult	Rec.	L	imit
DRO		245	i n	1g/Kg	1	25	i0	<	5.8	98	27.8	- 152.1
Percent recovery is based or	n the sp	oike result.	RPD is	based o	on the spik	e and sp	oike du	iplicat	e resu	lt.		
Υ.		LCSD			Spike	Mat	riv		1	Rec		RPD
Рагат		Result	Units	Dil.	Amoun	t Res	nit	Rec.	T	limit	RPD	Limit
DRO		233	mg/Kg	1	250	<1	5.8	93	27.8	- 152.1	5	20
Percent recovery is based or	n the sp	ike result.	RPD is	based o	on the spik	e and sr	oike du	plicat	e resu	 lt.		
	т. СС т. СС				• • • •		.,	· .	00	TOOD		D
Suma anto	LUS	Dosuli	, T.	Taita	D:1	Sp	ike	L	03	LCSD		Rec.
n Tringentone	$\frac{1}{976}$	<u>Resul</u>	<u> </u>	alka	<u></u>	Am	000000000000000000000000000000000000	K	ec.	$\frac{\text{Rec.}}{24}$	20	
Matrix Spike (MS-1) QC Batch: 56078	Spiked	Sample: 18	35125 Date Ar	nalyzed:	: 2009-0)1-16	<u> </u>			Analy	vzed By	: ME
Prep Batch: 47928			QC Prej	paration	n: 2009-0	1-16				Prepa	ared By	: ME
.		MS				Spik	æ	Ma	trix	_]	Rec.
Param		Resu		nits	Dil.	Amou	int	Res	sult	Rec.	L	imit
Benzene		4.69	m	g/Kg	5	5.00	J	<0.0)290	94	62.2	- 134.3
Toluene		4.83	m	g/Kg	5	5.00	J	0.6	597	83	62.6	- 145.4
Ethylbenzene		5.41	m	g/Kg	5	5.00	J	<0.0	J265	108	64.6	- 146.4
Aylene		15.4	m	g/Kg	5	15.0	J	2.7	00	85	64.3	- 148.8
Percent recovery is based or continued	<u>n the sp</u>	ike result.	RPD is	based o	n the spik	e and sp	oike du	plicat	e resul	lt		

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MSD ParamSpike ResultMatrix ResultRec. ResultRec. RPD ResultRPD LimitParamMSD ResultSpike UnitsMatrix ResultRec.Limit RPD LimitRPD LimitParamResultUnitsDil.Amount ResultRec.Limit RPD LimitBenzene Enzene4.74 4.74mg/Kg55.00 5.000.65978462.6 · 145.4120Delayle5.16 Mg/Kg55.00 5.000.026510364.6 · 146.4520Kylene14.9 mg/Kg55.00 5.000.026510364.6 · 146.4520Percent recovery is based on the spike result.RPD Mg/Kg550668.8 · 127.5SurrogateResult ResultResult ResultDil. AmountAmount Res.Res. Res.Limit Res.Matrix Spike (MS-1)Spiked Sample:185114QC Batch: SRO56079 S1.9Date Analyzed: 2009-01-162009-01-16Analyzed By: MEParamResult Units Dil. AmountResult Result Result Dil. Amount Result Result Dil. Amount ResultSpike Matrix Res. Matrix Res. Res. Res. Prepared By: MEMatrix Spike (MS-1)Spiked Sample:185114QC Batch: SRO51.9 mg/KgSpike S0.0Matrix Res. Res. Prepared By: MEParamResult Units Dil. Amount ResultMSD Res. <th>Report Date: January 19, 2009 DCPMID036SPL</th> <th></th> <th>]</th> <th>Work DCP U</th> <th>Corder: 90</th> <th>11633 Release</th> <th>l </th> <th></th> <th>Page 1</th> <th>Numbe Eddy</th> <th>r: 7 of 9 Co, NM</th>	Report Date: January 19, 2009 DCPMID036SPL]	Work DCP U	Corder: 90	11633 Release	l 		Page 1	Numbe Eddy	r: 7 of 9 Co, NM
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	matrix spikes continued										
ParamResultUnitsDil.AmountResultRes.LimitRPDLimitParamResultUnitsDil.AmountResultRes.LimitRPDLimitBenzene4.74mg/Kg55.00<0.02909562.2 - 134.3120Toluene4.87mg/Kg55.00<0.05978462.6 - 145.4120Ethylbenzene5.16mg/Kg55.00<0.056510364.6 - 146.4520Xylene14.9mg/Kg515.02.7068164.3 - 148.8320Percent recovery is based on the spike result.MSDSpikeMSDRec.LimitSurrogateResultYalks55969638.8 - 127.5Labronolluorobenzene (4-BFB)5.395.47mg/Kg5510810949.3 - 142.4Matrix Spike (MS-1)Spiked Sample:1851142009-01-16Analyzed By:MEQC Batch:56079Date Analyzed:2009-01-16Analyzed By:MEParamResultUnitsDil.AmountResultRec.LimitGRO51.9mg/Kg550.02.56289910 - 139.3720ParamResultUnitsDil.AmountResultRec.Rec.Rec.ParamResultUnitsDil.AmountResultRec.LimitTD<	D	MSD			Spike	Mat	rix	R	ec.		RPD
MSD ParamNSD ResultSpike UnitsMatrix ResultRec. LimitRPD LimitRPD LimitParam4.87 mg/Kgmg/Kg55.00<0.0200	Param	Result	Units	Dil.	Amount	Resu	ilt Rec.	Ļi	mit	RPD	Limit
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Benzene 4.74 mg/Kg 5 5.00 <0.0290 95 62.2 13.3 1 20 Toluene 4.87 mg/Kg 5 5.00 <0.0295	Param	Result	Units	Dil.	Amount	Res	ilt Rec.	Li	mit	RPD	Limit
	Benzene	4.74	mg/Kg	5	5.00	<0.0	290 95	62.2 -	• 134.3	1	20
Ethylbenzene5.16mg/Kg55.00<0.026510364.6-146.4520Xylene14.9mg/Kg515.02.7068164.3-148.8320Percent recovery is based on the spike result.MSMSDSpikeMSMSDRec.Rec.LinitSurrogateResultResultUnitsDil.AmountRec.LinitLinitTrifluorotoluene (TFT)4.814.80mg/Kg55969638.8 - 127.54-Bromofluorobenzene (4-BFB)5.395.47mg/Kg5510810949.3 - 142.4Matrix Spike (MS-1)Spiked Sample: 1851142009-01-16Analyzed By:MEQC Batch:56079Date Analyzed:2009-01-16Analyzed By:MEPrep Batch:47928QC Preparation:2009-01-16Prepared By:MEParamResultUnitsDil.AmountResultRec.Limit3RO51.9mg/Kg550.02.56289910 - 139.37Percent recovery is based on the spike result.RPDIsbased on the spike and spike duplicate result.ParamResultUnitsDil.AmountRec.Rec.Ref.ParamResultUnitsDil.AmountRec.Limit3720Percent recovery is based on the spike result.RPDIsbased on the spike and spike duplicate result.Stronget	Toluene	4.87	mg/Kg	5	5.00	0.65	97 84	62.6 -	- 145.4	1	20
Xylene14.9mg/Kg515.02.7068164.3 - 148.8320Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.SurrogateResultResultUnitsDil.AmountRec.LimitTrifluorotoluene (TFT)4.814.80mg/Kg55969638.8 - 127.54-Bromofluorobenzene (4-BFB)5.395.47mg/Kg5510810949.3 - 142.4Matrix Spike (MS-1)Spiked Sample: 185114Amalyzed:2009-01-16Analyzed By:MEQC Batch:56079Date Analyzed:2009-01-16Analyzed By:MEPrepared By:MEParamResultUnitsDil.AmountResultRec.LimitGRO51.9mg/Kg550.02.56289910 - 139.3Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.Rec.RPDParamResultUnitsDil.AmountRec.RPDParamResultUnitsDil.AmountRec.Limit3RO55.5mg/Kg550.02.562810610 - 139.3Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.SurrogateMSMSDSpikeMatrixRec.Iffuorotoluene (TFT)5.0mg/Kg55100100<	Ethylbenzene	5.16	mg/Kg	5	5.00	<0.0	265 103	64.6 -	- 146.4	5	20
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.SurrogateResultUnitsDil.AmountRec.MSDRec.Diffuorotoluene (TFT)4.814.80mg/Kg55969638.8 - 127.54-Bromofluorobenzene (4-BFB)5.395.47mg/Kg5510810949.3 - 142.4Matrix Spike (MS-1)Spiked Sample: 185114QC Batch:56079Date Analyzed:2009-01-16Analyzed By:MEPrep Batch:47928QC Preparation:2009-01-16Prepared By:MEParamResultUnitsDil.AmountResultRec.LimitBRO51.9mg/Kg550.02.56289910 - 139.3Percent recovery is based on the spike result.RPDSpikeMatrixRec.RPDParamResultUnitsDil.AmountResultRec.RPDJRO55.5mg/Kg550.02.562810610 - 139.3720Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.SurrogateMSMSDSpikeMatrixRec.LimitRPDLimitTifluorotoluene (TFT)5.004.98mg/Kg5510010021.3 - 119Heromofluorobenzene (4-BFB)4.924.98mg/Kg5510010021.3 - 119Heromofluo	Xylene	14.9	mg/Kg	5	15.0	2.70	6 81	64.3	148.8	3	_20
MSMSDSpikeMSMSDRec.SurrogateResultUnitsDil.AmountRec.Rec.Trifluorotoluene (TFT)4.814.80mg/Kg55969638.8 - 127.54-Bromofluorobenzene (4-BFB)5.395.47mg/Kg5510810949.3 - 142.4Matrix Spike (MS-1)Spiked Sample:185114QC Batch:56079Date Analyzed:2009-01-16Analyzed By:MEPrep Batch:47928QC Preparation:2009-01-16Prepared By:MEParamResultUnitsDil.AmountResultRec.LimitJRO51.9mg/Kg550.02.56289910 - 139.3Percent recovery is based on the spike result.RPDis based on the spike and spike duplicate result.ParamResultUnitsDil.AmountResultRec.RPDParamResultUnitsDil.AmountResultRec.LimitJRO55.5mg/Kg550.02.562810610 - 139.3720Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.MSMSDRec.SurrogateMesultResultResultNesultMonuntRec.LimitTrifluorotoluene (TFT)5.004.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample: <td< td=""><td>Percent recovery is based on the</td><td>spike result</td><td>. RPD is l</td><td>based o</td><td>on the spike</td><td>and sp</td><td>ike duplicat</td><td>te result</td><td>•</td><td></td><td></td></td<>	Percent recovery is based on the	spike result	. RPD is l	based o	on the spike	and sp	ike duplicat	te result	•		
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Matrix Spike (MS-1) 4.81 4.80 mg/Kg 5 5 96 96 38.8 - 127.5 Matrix Spike (MS-1) Spiked Sample: 185114 Matrix Spike (MS-1) Spiked Sample: 185114 QC Batch: 56079 Date Analyzed: 2009-01-16 Analyzed By: ME Prep Batch: 47928 QC Preparation: 2009-01-16 Prepared By: ME Param Result Units Dil. Amount Result Rec. Limit GRO 51.9 mg/Kg 5 50.0 2.5628 99 10 - 139.3 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. RPD Limit Param Result Units Dil. Amount Result Rec. RPD Limit Param Result Units Dil. Amount Result Rec. RPD Limit Param Result NSD Spike MS MSD Spike MS MSD Rec. Param Result Result Result Dil. Amount Rec. Limit<	Surrogate	Resi	ilt Res	ult	Units	Dil.	Amount	Rec.	Rec.	I	<u>imit</u>
4-Bromotluorobenzene (4-BFB) 5.39 5.47 mg/Kg 5 5 108 109 49.3 - 142.4 Matrix Spike (MS-1) Spiked Sample: 185114 QC Batch: 56079 Date Analyzed: 2009-01-16 Analyzed By: ME Prep Batch: 47928 QC Preparation: 2009-01-16 Prepared By: ME Param Result Units Dil. Amount Result Rec. JRO 51.9 mg/Kg 5 50.0 2.5628 99 10 - 139.3 Percent recovery is based on the spike result. RPD Spike Matrix Rec. RPD Param Result Units Dil. Amount Result RPD Limit JRO 55.5 mg/Kg 5 50.0 2.5628 106 10 - 139.3 7 20 Param Result Units Dil. Amount Result Rec. RPD Limit JRO 55.5 mg/Kg 5 50.0 2.5628 106 10 - 139.3 7 20 Percent recovery is based on the spike result.	Irifluorotoluene (TFT)	4.8	1 4.8	30	mg/Kg	5	5	96	96	38.8	- 127.5
Matrix Spike (MS-1)Spiked Sample: 185114QC Batch:56079 QC Preparation:Date Analyzed: 2009-01-162009-01-16Analyzed By: ME Prepared By:MEPrep Batch:47928QC Preparation: QC Preparation:2009-01-16Prepared By: MEMEParamResultUnitsDil. MultisAmount ResultRec. LimitLimitGRO51.9mg/Kg550.02.56289910 - 139.3Percent recovery is based on the spike result.RPDis based on the spike and spike duplicate result.RPDParamResultUnitsDil.Amount ResultRec. LimitRPDParamResultUnitsDil.Amount ResultRec. LimitRPDParamResultUnitsDil.Amount ResultRec. LimitRPDParamResultUnitsDil.Amount ResultRec. LimitRPDParamResultUnitsDil.Amount Rec.Rec. LimitRPDParamResultUnitsDil.Amount Rec.Rec. LimitRPDParamResultUnitsDil.Amount Rec.Rec. LimitRec.ParamResultUnitsDil.Amount Rec.Rec.Rec. LimitParamResultUnitsDil.Amount Rec.Rec.Rec.ParamResultUnitsDil.Amount Rec.Rec.LimitProgate </td <td>4-Bromofluorobenzene (4-BFB)</td> <td>5.3</td> <td>9 5.4</td> <td>17</td> <td>mg/Kg</td> <td>5</td> <td>5</td> <td>108</td> <td>109</td> <td>49.3</td> <td>- 142.4</td>	4-Bromofluorobenzene (4-BFB)	5.3	9 5.4	17	mg/Kg	5	5	108	109	49.3	- 142.4
MSSpikeMatrixRec.ParamResultUnitsDil.AmountResultRec.LimitGRO51.9mg/Kg550.02.56289910 - 139.3Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.RPDLimitParamResultUnitsDil.AmountResultRec.RPDParamResultUnitsDil.AmountResultRec.LimitGRO55.5mg/Kg550.02.562810610 - 139.3720Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.MSMSDRec.SurrogateResultResultUnitsDil.AmountRec.LimitOrifluorobluene (TFT)5.004.98mg/Kg5510010021.3 - 119Horonfluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample:185044QCPreparation:2009-01-16Analyzed By:LDPrep Batch:47905QCPreparation:2009-01-16Prepared By:LD	1109 Daton. 41920			201 0 010	. 2005-01	-10			тера	red Dy	
ParamResultOnitsDit.AmountResultRec.LimitGRO51.9mg/Kg550.02.56289910 - 139.3Percent recovery is based on the spike result.MSDSpikeMatrixRec.RPDLimitParamResultUnitsDil.AmountResultRec.RPDLimitGRO55.5mg/Kg550.02.562810610 - 139.3720Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.MSMSDRec.SurrogateMSMSDSpikeMSMSDRec.Infifuorotoluene (TFT)5.004.98mg/Kg5510010021.3 - 119Heromofluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample:185044QC Preparation:2009-01-16Analyzed By:LDPrep Batch:47905QC Preparation:2009-01-16Prepared By:LD	D	M	S	[]	Dil	Sp	ike N	latrix	D		Rec.
BRO 51.9 Ing/Rg 5 50.0 2.5625 99 10 - 139.3 Percent recovery is based on the spike result. MSD Spike Matrix Rec. RPD Param Result Units Dil. Amount Result Rec. RPD SRO 55.5 mg/Kg 5 50.0 2.5628 106 10 - 139.3 7 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. RPD Limit Surrogate MS MSD Spike MS MSD Rec. Surrogate Result Result Units Dil. Amount Rec. Limit Trifluorotoluene (TFT) 5.00 4.98 mg/Kg 5 5 100 100 21.3 - 119 I-Bromofluorobenzene (4-BFB) 4.92 4.98 mg/Kg 5 5 98 100 52.5 - 154 Matrix Spike (MS-1) Spiked Sample: 185044 Spike Analyzed By: LD Prepared By: LD Prepared By: LD QC Batch: 56083 Date Analyzed: <td>Param</td> <td> Kes</td> <td></td> <td>Units</td> <td></td> <td></td> <td>ount H</td> <td>Lesult</td> <td></td> <td>10</td> <td>Limit</td>	Param	Kes		Units			ount H	Lesult		10	Limit
MSD Spike Matrix Rec. RPD GRO 55.5 mg/Kg 5 50.0 2.5628 106 10 - 139.3 7 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. Rec. Limit RPD Limit GRO 55.5 mg/Kg 5 50.0 2.5628 106 10 - 139.3 7 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. MS MSD Rec. Rec. Limit Surrogate Result Result Units Dil. Amount Rec. Rec. Limit Trifluorotoluene (TFT) 5.00 4.98 mg/Kg 5 5 100 100 21.3 - 119 4-Bromofluorobenzene (4-BFB) 4.92 4.98 mg/Kg 5 5 98 100 52.5 - 154 Matrix Spike (MS-1) Spiked Sample: 185044 ZC Bate Analyzed: 2009-01-16 Analyzed By: LD Prepared By: LD QC Batch: 56083 Date Analyzed: 2009-01-16 Prepared By: LD P		.1 1	.9 11	ig/ng		<u> </u>	<u></u>	.3028	99	10	- 139.3
MSDSpike MatrixMatrix ResultRec.RPD LimitParamResultUnitsDil.AmountResultRec.LimitRPDLimitGRO55.5mg/Kg550.02.562810610 - 139.3720Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.720Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.720SurrogateResultResultUnitsDil.AmountRec.Rec.CourogateResultResultUnitsDil.AmountRec.Rec.LimitTrifluorotoluene (TFT)5.004.98mg/Kg5510010021.3 - 119L-Bromofluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample:185044QC Batch:56083Date Analyzed:2009-01-16Analyzed By:LDPrep Batch:47905QC Preparation:2009-01-16Prepared By:LD	Percent recovery is based on the s	spike result.	RPD is I	based o	n the spike	and sp	ike duplicat	e result	•		
ParamResultUnitsDil.AmountResultRec.LimitRPDLimitGRO55.5mg/Kg550.02.562810610 - 139.3720Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.MSMSDRec.SurrogateResultResultUnitsDil.AmountRec.Rec.CurrogateResultResultUnitsDil.AmountRec.Rec.LimitTrifluorotoluene (TFT)5.004.98mg/Kg5510010021.3 - 119-Bromofluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample:185044QC Batch:56083Date Analyzed:2009-01-16Analyzed By:LDPrep Batch:47905QC Preparation:2009-01-16Prepared By:LD		MSD			Spike	Ma	trix	R	lec.		RPD
GRO55.5mg/Kg550.02.562810610 - 139.3720Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.MSMSDSpikeMSMSDRec.SurrogateResultResultUnitsDil.AmountRec.Rec.LimitLimitLimitDil.AmountRec.Rec.LimitArrogateResultValuesMSMSDSpikeNSDRec.SurrogateResultResultUnitsDil.AmountRec.Rec.LimitTrifluorotoluene (TFT)5.004.98mg/Kg5510010021.3 - 1194-Bromofluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample:185044Analyzed:2009-01-16Analyzed By:LDPrep Batch:56083Date Analyzed:2009-01-16Prepared By:LDPrepared By:LDQCPreparation:2009-01-16Prepared By:LD	Param	Result	Units	Dil.	Amount	: Res	sult Rec.	Li	mit	RPD	Limit
Percent recovery is based on the spike result.RPD is based on the spike and spike duplicate result.MSMSDSpikeMSMSDRec.SourrogateResultResultUnitsDil.AmountRec.Rec.LimitTrifluorotoluene (TFT)5.004.98mg/Kg5510010021.3 - 119L-Bromofluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample: 185044Date Analyzed:2009-01-16Analyzed By:LDPrep Batch:47905QC Preparation:2009-01-16Prepared By:LD	GRO	55.5	mg/Kg	5	50.0	2.5	628 106	10 -	139.3	7	20
MSMSDSpikeMSMSDRec.SurrogateResultResultUnitsDil.AmountRec.Rec.LimitTrifluorotoluene (TFT)5.004.98mg/Kg5510010021.3 - 119I-Bromofluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample:185044QC Batch:56083Date Analyzed:2009-01-16Analyzed By:LDPrep Batch:47905QC Preparation:2009-01-16Prepared By:LD	Percent recovery is based on the s	spike result.	RPD is l	based o	n the spike	and sp	ike duplicat	e result	•		
SurrogateResultResultUnitsDil.AmountRec.Rec.LimitIrifluorotoluene (TFT)5.004.98mg/Kg5510010021.3 - 1194-Bromofluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample: 185044QC Batch:56083Date Analyzed:2009-01-16Analyzed By:LDPrep Batch:47905QC Preparation:2009-01-16Prepared By:LD		M	S M	SD			Spike	MS	MSD		Rec.
Trifluorotoluene (TFT) 5.00 4.98 mg/Kg 5 5 100 100 21.3 - 119 4-Bromofluorobenzene (4-BFB) 4.92 4.98 mg/Kg 5 5 98 100 52.5 - 154 Matrix Spike (MS-1) Spiked Sample: 185044 QC Batch: 56083 Date Analyzed: 2009-01-16 Analyzed By: LD Prep Batch: 47905 QC Preparation: 2009-01-16 Prepared By: LD	Surrogate	Res	ult Res	sult	Units	Dil.	Amount	Rec.	Rec.	•	Limit
4-Bromofluorobenzene (4-BFB)4.924.98mg/Kg559810052.5 - 154Matrix Spike (MS-1)Spiked Sample: 185044QC Batch:56083Date Analyzed: 2009-01-16Analyzed By: LDPrep Batch:47905QC Preparation: 2009-01-16Prepared By: LD	Trifluorotoluene (TFT)	5.0	0 4.	98	mg/Kg	5	5	100	100	21	.3 - 119
Matrix Spike (MS-1)Spiked Sample: 185044QC Batch:56083Date Analyzed: 2009-01-16Analyzed By: LDPrep Batch:47905QC Preparation: 2009-01-16Prepared By: LD	-Bromofluorobenzene (4-BFB)	4.9	2 4.	98	mg/Kg	5	5	98	100	52	. <u>5 - 15</u> 4
QC Batch:56083Date Analyzed:2009-01-16Analyzed By:LDPrep Batch:47905QC Preparation:2009-01-16Prepared By:LD	Matrix Spike (MS-1) Spike	d Sample: 1	85044								
Prep Batch: 47905 QC Preparation: 2009-01-16 Prepared By: LD	QC Batch: 56083		Date An	alyzed	: 2009-01	1-16			Analy	zed By	r: LD
	Prep Batch: 47905		QC Pret	paratio	n: 2009-01	1-16			Prepa	ared By	·: LD
	•									J	
	continued							<u>, </u>	. –		

Report Date: January 19, 2009 DCPMID036SPL			Work Order: 9011633 DCP U-9-12 Poly Release				Page	Page Number: 8 of 9 Eddy Co, NM		
matrix spikes continu	ied					a a				D
Danam	•	MS	14	Tinita	D:1	Spike	Mat	rix ult Dec		Rec.
Param		Resu	10	Units	D11.	Amount	Res	ult Rec.		Limit
		MS				Spike	Mat	rix		Rec.
Param	-	Resu	lt ·	Units	Dil.	Amount	Res	ult Rec.		Limit
DRO		254	1	ng/Kg	1	250	61	77		8 - 179.5
Percent recovery is b	ased on the	spike result.	RPD is	based or	n the spike a	nd spike du	plicate 1	esult.		
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		291	mg/Kg	1	250	61	92	18 - 179.5	14	20
Percent recovery is ba	ased on the s	spike result.	RPD is	based or	n the spike a	nd spike du	plicate 1	esult.		
	MS	MSD				Spike	MS	S MSD		Rec.
Surrogate	Result	Result	. 1	Units	Dil.	Amount	Rec	Rec.		Limit
n-Triacontane	81.8	81.8	n	ng/Kg	1	100	82	82	34	4.1 - 158
-			ICV	3	ICVs	ICVs		Percent	-	
	-		True		Found	Percent		Recovery		Date
Param	Flag	Units	Conc		Conc.	Recovery	,	Limits	Α	nalyzed
Benzene		mg/Kg	0.100)	0.0871	87		85 - 115	20	09-01-16
Toluene		mg/Kg	0.100)	0.0941	94		85 - 115	20	09-01-16
Ethylbenzene		mg/Kg	0.100)	0.0934	93		85 - 115	20	09-01-16
Xylene		mg/Kg	0.300)	0.282	94		85 - 115	20	09-01-16
Standard (CCV-1)										
QC Batch: 56078			Date Ar	alyzed:	2009-01-16	•		Anal	yzed By	y: ME
			CCV	s	CCVs	CCVs		Percent		
			True	:	Found	Percent		Recovery		Date
Param	Flag	Units	Conc	•	Conc.	Recovery		Limits	<u>A</u>	nalyzed
Benzene		mg/Kg	0.100)	0.0908	91		85 - 115	20	09-01-16
Toluene		mg/Kg mg/Kg	0.100	, ,	0.0927	93		85 - 115 95 - 115	20	09-01-16
Ethylbenzene Yylene		mg/Kg	0.100	,)	0.0009	89 00		00 - 110 85 - 115	204 204	00-01-16
Aylene		<u>m5/115</u>	0.000		0.410			09 - 110	20	
Standard (ICV-1)										
QC Batch: 56079			Date Ar	alyzed:	2009-01-16			Anal	yzed By	y: ME

Report Da DCPMID	eport Date: January 19, 2009 CPMID036SPL D			Work Order: 9 CP U-9-12 Pol	011633 y Release	Page	Number: 9 of 9 Eddy Co, NM
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO	0	mg/Kg	1.00	1.02	102	85 - 115	2009-01-16
Standard	(CCV-1)						;
QC Batch:	: 56079		Date Ana	alyzed: 2009-0	1-16	Anal	yzed By: ME
Daram	Flag	Unite	CCVs True Conc	CCVs Found	CCVs Percent	Percent Recovery	Date
Earann	riag		1.00	0.982		<u>85 - 115</u>	2009-01-16
GRO Standard	(CCV-1)	mg/Kg					
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PIOH Suite 180 Midland Tum Around Time if different from standard Dry Weight Basis Required A || + CS+S ģ 8808 Camp Bowie Blvd. West, Su Ft. Worth, Texas 76116 Tel (817) 201-5260 Fax (817) 560-4336 1AN 19 2009 Circle or Specify Method No. Check If Special Reporting Limits Are Needed **TRRP Report Required ANALYSIS REQUEST** New Mexico Instruce Content Page Hq ,22T ,008 Nmoco Pesticides 8081A / 608 ш PCB's 8082 / 608 Suite 00 East Sunset Rd., Suitt El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 79922 GC/MS Semi. Vol. 8270C / 625 REMARKS GC/MS API: 8260B / 624 ßСI \square TCLP Pesticides TCLP Semi Volatiles o eadspace Y/N/NA TCLP Volatiles LAB USE Carrier # CANNY 200 J. ONLY og-In-Review TCLP Metals Ag As Ba Cd Cr Pb Se Hg ç Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 Intact Y-1-N 5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313 8570<u>C / 625</u> НАЯ TPH 8015 GRO / DRO / TVHC TPH 418.1 / TX1005 / TX1005 Ext(C35) 3 LAB Order ID # 7011633 BTEX 8021BY 602 / 8260B / 624 2.6.8 Temp°c: Temp°c: Temp°c: 80218 / 602 / 82608 / 624 **38TM** 13:15 E-mail: Ksummers Ctalonipe.com SAMPLING **JIME** (1 2 14.40 ener 6 Time: Time: Time: 5 **3TAO** 432)582-2133 Suite Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 6701 Aberdeen Avenue, Bo Date: Date: PRESERVATIVE NONE Ö ICE METHOD Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. Ĭ Mart er Signature: HOBN Company: Company: ompany: DCP U-9-13 'OS^zH dattours [€]ONH ICH • Phone Fax #: X Received by: Received by: SLUDGE Received by MATRIX ЯIA **TraceAnalysis**, Inc. SOIF EZ **MATER** email: lab@traceanalysis.com 402 01-10 H InnomA \ amuloV lime: lime: Time: Eddus (* CONTRINERS P0/1 Date: Sule Summers Project #: Dr. OMI O 36 SP1 (Street, City, Zip) FIELD CODE 000 00 1-9-13 Company: Company Company: (If different from above) ر م 5 Relinquished by: hed by Contact Person: Relinquished by Company Name: Project Locat K5 llez i. AB USE X ۰ ۲ ۲ Invoice to: Ŷ, ONLY LAB# Address: Relinqui <u>4</u>* デ ð :

APPENDIX F

WASTE MANIFESTS

CONTROLLED RECOVERY, INC. P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com NMOCD Order R9166

Bill to			···		
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P.O. Box 388 •	Hobbs,	New Mexico 882	241-0388 •	(575)	393-1079 ·	www.crihobbs.com
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White - CRI

Pink - CRI Plant

CONTROLLED RECOVERY, INC. P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com NMOCD Order R9166

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P.O. Box 388	Hobbs,	New Mexico 88241-0388	• (575)	393-1079 •	www.crihobbs.com
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P.O. Box 388 •	Hobbs, New Mexico 88241-0388 • (575) 393-1079 •	www.crihobbs.com
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NMOCD Order R9166

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Form C138 White - CRJ

Pink - CRI Plant

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	P.O. Box 388	 Hobbs, New Me 	xico 88241-0388 • (575) NMOCD Order R916	393-1079 6	www.crihobb	s.com	
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Volume of Material	D Bbls		G Yard .	12	<u></u>	Gallons	
Wash Out	🛛 Call Ou	ıt	C After	Hours		Debris Charg	8
I hereby certify that acco 1988 regulatory determin RCRA Exempt: Oil waste. RCRA Non-Exemp characteristics establish as amended. The follow items)	rding to the R ation, the abor field wastes g t: Oil field wa hed in RCRA n wing documen	enerated from oil source Conserva ve described waste enerated from oil ste which is non-l egulations, 40 CFF tation is attached t	IFICATION STATEMEN tion and Recovery Act (I e is: (Check the appropria and gas exploration and hazardous that does no 2 261.21-261.24, or listed o demonstrate the above	CRA) and ate classifice production t exceed th hazardous -described v	E STATUS the US Environr ation) operations and e minimum star waste as defined waste is non-haz	nental Protection A are not mixed with dards for waste ha In 40 CFR, part 261 ardous. (Check the	gency's July non-exemp azardous by I, subpart D appropriate
MSDS Information		ardous Waste Ana	Ivsis 🔲 Process Know	ledae 🔲 (Other (Provide d	escription above)	
CRI Approval #			-	- u `			
			\sim				
Agent (Signature)	anda)	(/ ~				
CRI Representative	(Signature)	m J	Nate	2			
TANK BOTTOMS							
	Feet	Inches					
1st Gauge			BS&W/BBLS	Received		BS&W	%
2nd Gauge	<u></u>		E*	ao Water	·····	1	
Zilu Gauge	<u> </u>				<u></u>		
Received			Total	Received			
						2061	L67
Fc White - CRI	ym C138	Canary - CRI Accou	nting	Pink - CRI Plar	ıt	Gold - Transporte	 r

P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com	
NMOCD Order R9166	

Bill to		··		·		
Address		· · ·				
Company/Generato	or Z	X.P				
Lease Name		Pipleliter	U-9-12	•		
Trucking Company	PCM	Vehicle	Number 3	Driver (Print)	FRISM	6
Date / - //	K_09		Time	12:49	<u> </u>	= a.m. / p.m.
		Tvi	be of Material	1001		•
🔾 Fluids	Solls					
Tank Bottoms	Other Mat	terial (List Description Below		ving Area <u>SZ</u>	.51	
		D	ESCRIPTION			
				`		<u> </u>
<u> </u>		<u></u>				
<u></u>						
			. /			
Volume of Material	D Bbis.		(🖸 Yard	2/	Gallons	· · · · · · · · · · · · · · · · · · ·
Wash Out		lut	After Hou	rs	Debris Char	rge
 RCRA Exempt: waste. RCRA Non-Exe characteristics esta as amended. The fi jtems) 	Oil field wastes empt: Oil field w blished in RCRA following docume	generated from oil and g aste which is non-hazard regulations, 40 CFR 261.2 ntation is attached to dem	as exploration and proc lous that does not exc 21-261.24, or listed haze onstrate the above-des	duction operations and xeed the minimum star ardous waste as defined cribed waste is non-haz	are not mixed wit ndards for waste i In 40 CFR, part 2 zardous. (Check th	h non-exemp hazardous b 61, subpart [ne appropriat
MSDS Information		zardous Waste Analysis		e 🖸 Other (Provide d	escription above)	
CRI Approval #		-				
Sach			A			
Agent (Signature		1	-7/			
CRI Representative		Jen Mb	iff			
	(Signature)	10	\square			
TANK BOTTOMS	- .	Averate a c				
	Feet					
1st Gauge		· . · · · · · · · · · · · · · · · · · ·	BS&W/BBLS Rece	bevie	BS&W	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2nd Gauge			Free V	Vater		
Received			Total Rece	bevie		
				,	206	5114
White - CRI	Form C138	Canary - CRI Accounting	Pink -	CRI Plant	Gold - Transpor	rter
					THE COLO	R PRINTER - #762

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Bill to		···· ···			
Address	· ·				
Company/Generator	DEP	<u> </u>	<u></u>		
Lease Name	Pizel.	he v-9-12	~		1
Trucking Company	Hander Imela	Vehicle Number	1	Driver (Print)	Lot
Data /a la		Tim		1200	-

Date a.m. / p.m. Time **Type of Material G** Fluids Tank Bottoms Other Material (List Description Below) **Receiving Area** DESCRIPTION **Bbls**. 🗹 Yard Gallons. Volume of Material Wash Out Call Out Debris Charge After Hours

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

Z RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information		ardous Waste Analys	is 🖸 Process Knowledge 🕻	Other (Provide de	scription above)	
CRI Approval #	<u></u>		·			
Agent	nes H	\rightarrow	A /			
CRI Representative) (Signature)	In for	<u> </u>			
TANK BOTTOMS	Feet	Inches				,
1st Gauge			BS&W/BBLS Received	1	BS&W	%
2nd Gauge			Free Water	r		
Received			Total Received	1		
	Form C128				20610)7
White - CRI		Canary - CRI Accountin	ng Pink - CRI F	Plant	Gold - Transporter THE COLOR PRIN	ITER - #7521

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Bill to							
Address				<u></u>	<u></u>		
		· · · · · · · · · · · · · · · · · ·					
Company/Generator	DCP						
Lease Name		Pireline	2-0-9	-12			
Trucking Company	Pimero	> Veh	Icle Number	Ð1	Driver (Print)	TELAY	
Date / / 4-	09		Tir	ne	1:09	/a,ı	n./p.m
:			Type of Ma	terial	1	•	
J Fluids	Solls		- · ·	Deeekder	The The	51 1	
		nal (List Description	Below)	Receiving	J Area	10/	
	· ··· ······ ···	<u></u>	DESCRIP	ION	(04	Jag	
		· ·					<u> </u>
		<u> </u>	†		<u></u>		
<u> </u>		· · · · · · · · · · · · · · · · · · ·			·····		
				/			
olume of Material	🗋 Bbis		D	Yard		Gallons	
Wash Out	🖵 Call Ou	rt	D	After Hours		Debris Charge	B
 RCRA Exempt: (waste. RCRA Non-Exer characteristics estab as amended. The for items) 	Dil field wastes g npt: Oil field was ilshed in RCRA n ilowing document	enerated from oil a ste which is non-ha egulations, 40 CFR tation is attached to	nd gas exploration azardous that do 261.21-261.24, o demonstrate the	on and product bes not exceed r listed hazardo above-describ	ion operations and I the minimum stan us waste as defined ed waste is non-haz	are not mixed with dards for waste ha in 40 CFR, part 261 ardous. (Check the	non-exempt zardous by , subpart D, appropriate
MSDS Information	RCRA Haza	ardous Waste Analy	sis 🛄 Process	Knowledge	Contraction (Contraction of the second secon	escription above)	
CRI Approval #		•			•	. ,	
11. 7	1/1.5	$\overline{)}$		•			
Agent () (Signature)	I gimal		t. tel		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
CRI Representative	(Signature)	Jemf	ul		····		
ANK BOTTOMS	Feet	Inches	0				
1st Gauge			BS&W/E	BLS Receive	d	BS&W	%
2nd Gauge				Free Wate	er		
Received				Total Receive	d		
	.					2061	L18
White - CRI	Form C138	Canary - CRI Account	ling	Pink - CRI	Plant	Gold - Transporter THE COLOR (- PRINTER - #7521

P.O. Box 388 -	Hobbs, New Me	xico 88241-0388	• (575) 393-1079	 www.crihobbs.com
	÷	NMOCD Orde	r R9166	

Bill to			· · · · · · · · · · · · · · · · · · ·		
Address	· ·				
Company/Generate	or DCI		···		
Lease Name		P.De	the: U-9- 2		<u> </u>
Trucking Company	Prom	es Ve	ehicle Number 61	Driver (Print)	1 min
Date /-14-	09	· · · · · · · · · · · · · · · · · · ·	Time	402	a.m./p.m.
_			Type of Material		
Fluids Tank Bettema	Soils			S	-1
		enal (List Descriptio		g Area	
			DESCRIPTION	<u>(onl~ c</u>	<u>o</u> J
				``	
	· · · · · · · · · · · · · · · · ·				
· · · · · · · · · · · · · · · · · · ·					
				•	
			·····	<u></u>	
Volume of Material	Bbls.		Q/Yard	<u> </u>	Sallons
Wash Out	🗋 Call Q	lut	C After Hours		ebris Charge
 RCRA Exempt: waste. RCRA Non-Executive characteristics esta as amended. The f items) MSDS Information CRI Approval #	Oil field wastes empt: Oil field wa blished in RCRA collowing docume n C RCRA Haz	generated from oil aste which is non- regulations, 40 CFi ntation is attached zardous Waste Ana	and gas exploration and product hazardous that does not exceed R 261.21-261.24, or listed hazardo to demonstrate the above-describ	tion operations and are not the minimum standards bus waste as defined in 40 ed waste is non-hazardou Other (Provide descrip	ot mixed with non-exempt for waste hazardous by CFR, part 261, subpart D s. (Check the appropriate tion above)
Agent(Signature	is the	may	he f	<u></u>	
CRI Representative	(Signature)	fene.	NG S		
TANK BOTTOMS	Feet	Inches			· .
1st Gauge			BS&W/BBLS Receive	ed BS	\$&W %
2nd Gauge			Free Wat	er	
Received			Total Receive	ed	
1	Eorm C199	•	· · · · · · · · · · · · · · · · · · ·		206172
White - CRI	rum y 130	Canary - CRI Accou	inting Pink - CR	Plant	Gold - Transporter THE COLOR PRINTER - #762

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Bill to				. <u></u>	
Address	······				
				····	
Company/Generate	or 🛆	4			
Lease Name		[ipe]	De U-9-12	·	
Trucking Company	<u></u> H	Ve	hicle Number 2	Driver (Print)	Ben
Date / /4	09		Time	12:24	a.m./p.m.
			Type of Material	/	
C Fluids					7)-51
		erial (List Description	n Below) Recel	ving Area	
*-···	·····		DESCRIPTION - (Dit - Pink	
	····				·····
					,,,
Volume of Material	Bbls.		/ 🖸 Yard	12	Gallons
Wash Out	🖸 Call Ou	ıt	After Hou	rs	Debris Charge
waste. RCRA Non-Exa characteristics esta as amended. The f	empt: Oil field was blished in RCRA n bliowing documen	ste which is non-l egulations, 40 CFR tation is attached to	and gas exploration and prov hazardous that does not exc 261.21-261.24, or listed hazi o demonstrate the above-des	aucuon operations and a seed the minimum stand ardous waste as defined cribed waste is non-haza	dards for waste hazardous t in 40 CFR, part 261, subpart l indous. (Check the appropriat
items)					
MSDS Information		ardous Waste Anal	iysis 🖵 Process Knowledge	e U Other (Provide de	scription above)
CRI Approval #					
Agent	- Male-				
(Signature	e)			TA.	7
CRI Representative	(Signature)			I cen Maria	~ \$
	(ciginzaic)				
TANK BOTTOMS	Feet	Inches			
1st Gauge			BS&W/BBLS Rec	aived	BS&W %
2nd Gauge			Free V	Vater	
Received			Total Reco	eived	
	<u></u>			······	206106
White - CRI	Form C138	Canary - CRI Accou	nting Pink -	CRI Plant	Gold - Transporter THE COLOR PRINTER - #7/

P.O. Box 388 • Hobbs,	NTROLLED New Mexico 88241-0 NMOCD C	RECOVERY, 1388 • (575) 393-107 Order R9166	INC. 9 • www.crihobbs.com
Bill to			
Address	··		·
Company/Generator	· · · ·		
Lease Name	Pio (in	- V-9 >	2
Trucking Company TS & H	Vehicle Numb	er viz	Driver (Print) June 1
Date 1 -1	······································	Time	3:30 0
<i>i i</i>	Type of	Material	
Image: Solid stress Image: Solid stress Imag	Description Below)	Receiving	Area
	DESCI	RIPTION	(Ser
		1	
			·····
			· · · · · · · · · · · · · · · · · · ·
	····	1	
Volume of Material Bbls	· · · · · · · · · · · · · · · · · · ·	2 Yard	Gallons _

U Wash Out

Call Out

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

After Hours

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

Z RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt ^Cwaste.

CRCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

CRI Approval # _			·		
Agent	zorvo Men	aloza	7		
CRI Representative)(Signature)	an Max			
TANK BOTTOMS	Feet	inches			
1st Gauge			BS&W/BBLS Received	BS&W	%
2nd Gauge			Free Water		
Received			Total Received		
White - CRI	Form C138	Capary - CRI Accounting	Pink - CRI Plant	2061 Gold - Transporter	L 6 0
White - CRI	Form C138	Canary - CRI Accounting	Pink - CRI Plant	2061 Gold - Transporter	60

THE COLOR PRINTER - #7521

a.m. / p.p

Debris Charge

1

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Dill 4-				
Addross			<u> </u>	
	·····		<u></u>	· · · · · · · · · · · · · · · · · · ·
Company/Generator PCT	•			
_ease Name	Pipesking-6	F-12		
Trucking Company 3-1+	Vehicle Numbe	, 02	Driver (Print)	B Boy
Date (Time	3/20	a.m. / p.m.
	Type of I	Material		
				,
Tank Bottoms Other Materia	(List Description Below)	Receiving	Area : 3251	
······	DESCRI	PTION	(at So	<u>.~/</u>
			······	
		 		
		1		- · · · · · · · · · · · · · · · · · · ·
				······································
Volume of Material 🛛 Bbls		Vard		ons
Wash Out Call Out		After Hours		ris Charge
 RCRA Exempt: Oil field wastes gene waste. RCRA Non-Exempt: Oil field waste characteristics established in RCRA regu as amended. The following documentation 	which is non-hazardous that lations, 40 CFR 261.21-261.2 on is attached to demonstrate	t does not exceed 4, or listed hazardou the above-described	n operations and are not m the minimum standards for s waste as defined in 40 CFi I waste is non-hazardous. (nixed with non-exemp waste hazardous t R, part 261, subpart I Check the appropriat
Items)	we Waste Analysis 🔲 Prov		Other (Provide description	ahova)
				2000)
Agent (Signature)				
CRI Representative(Signature)	a mit			
ANK BOTTOMS	Inches			
1st Gauge	BS&	W/BBLS Received	BS&V	V %
2nd Gauge		Free Water		
Received		Total Received	.	
L		······································		206163
Form C138	anany - CRI Accounting	Pink - CRI P	ant Gold	

	CO P.O. Box 368 • Hobbs	NTROLLED F , New Mexico 88241-03 NMOCD O	RECOVERY, 388 • (575) 393-1079 rder R9166	INC. • www.crihobbs	.com	
Bill to						<u></u>
Address						
Company/Generato	A DLP_					
Lease Name	Pipe	1 mm U-9-	m		A	
Trucking Company	TS SIL	Vehicle Numb	er 82	Driver (Print)	Gragh.	
Date 1-14-	09	·····	Time	12:3	a a	.m. / p.m.
FluidsTank Bottoms	Solls Other Material (List	Type of Description Below)	Material Receiving	Area	57	
		DESCR	KIPȚION			
<u></u>						
	·					
· · · · · · · · · · · · · · · · · · ·						
			+			
	······································			<u> </u>	<u> </u>	
Volume of Material	Bbls		Ø Yard	2	Gallons	<u> </u>
U Wash Out	Call Out		After Hours	· · · · · · · · · · · · · · · · · · ·	Debris Charç	je
I hereby certify that a 1988 regulatory deter RCRA Exempt: waste. RCRA Non-Exe characteristics estal as amended. The fo items)	GENERAT according to the Resource mination, the above descri Oil field wastes generated ampt: Oil field waste which blished in RCRA regulation ollowing documentation is a	OR CERTIFICATION S Conservation and Rec bed waste is: (Check th from oil and gas expl h is non-hazardous th is, 40 CFR 261.21-261. attached to demonstrat	TATEMENT OF WAS overy Act (RCRA) an ne appropriate classifi- toration and production at does not exceed 24, or listed hazardou e the above-describer	TE STATUS d the US Environm (cation) on operations and a the minimum stand is waste as defined d waste is non-haze	iental Protection A are not mixed with dards for waste h in 40 CFR, part 26 ardous. (Check the	gency's July non-exempt azardous by 1, subpart D, appropriate
MSDS Information	RCRA Hazardous W	/aste Analysis 🛛 Pro	cess Knowledge	Other (Provide de	scription above)	
CRI Approval #						
Agent	no Mendeza		11			
CRI Representative	(Signature)	Hom	Men			
TANK BOTTOMS	Feet Inc	thes				
1st Gauge		BS8	W/BBLS Received	1	BS&W	%
2nd Gauge		· ·	Free Water			

Received

White - CRI

Form C138

Pink - CRI Plant

Total Received
CONTROLLED RECOVERY, INC.

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NMOCD Order R9166

Bill to						٦. ١	
Address					· · · · · · · · · · · · · · · · · · ·		
Company/Generate	or DC	7					
Lease Name	<u> </u>	P-pe (1	<u>u. U-</u>	9-12			
Trucking Company	Dominere	Z Ve	hicle Number	101	Driver (Print)	Julio	
Date 1 - 14 -	09			Time	<u>)!@</u>	ວ	a.m. / p.m.
•	_		Type of N	laterial			
Fluids	Soils		- Ostaul	Decehing	Ama Da	57	
			DESCRIP		Area		
			DEOCRI		O(a)	1 - 0 - 1	
		· · · · · · · · · · · · · · · · · · ·	<u> </u>	1			
	····						
			ł		·····		
		.*	{				2100
RCRA Exempt: waste. RCRA Non-Exe characteristics esta as amended. The f	Oil field wastes g empt: Oil field wa blished in RCRA r following documen	generated from oil ste which is non-l egulations, 40 CFR tation is attached to	and gas explor hazardous that 261.21-261.24 o demonstrate	ation and production does not exceed l, or listed hazardou the above-describe	the minimum stan s waste as defined d waste is non-haz	are not mixed w dards for waste in 40 CFR, part ardous. (Check	ith non-exempt hazardous by 261, subpart D, the appropriate
		ardaua Maata Anal			Othor (Brouldo d	ocorlation above	\
CRI Approval #		aruous waste And)
Agent	• <i>(</i>)	$-\bigcirc$		-	•		
CRI Representative)(Signature)	fla	Muf	<u></u>			
TANK BOTTOMS				い			
	Feet	Inches			1	-T	
1st Gauge	·		BS&V	V/BBLS Received		BS&W	%
2nd Gauge			·	Free Water	•		
Received	· · · · · · · · · · · · · · · · · · ·			Total Received			
		· · · · · · · · · · · · · · · · · · ·				20	6129
White - CRI	Form C138	Canary - CRI Accour	nting	Pink - CRI F	lent	Gold - Transp	orter LOR PRINTER - #752

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CONTROLLED RECOVERY, INC.

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		NN	IOCD Orde	r R916	6	

Address				
			· · · · · · · · · · · ·	
Company/Generator	CP		· · · · · ·	
ease Name	Pinelik	J-9-1	~	· · · ·
irucking Company をきめ	Vehicle Numb	er Ø3	Driver (Print) En	nrinn
Date 1-14-09		Time	2:12	a.m. / p.m.
	Type of	Material	· · · · · · · · · · · · · · · · · · ·	
Fluids Soils		Desshire	20-5	7
	Tenal (List Description Below)	Receiving	Area	
<u> </u>	DESCI		(oupe	<u></u>
			· · · · · · · · · · · · · · · · · · ·	
		1	· · · · · · · · · · · · · · · · · · ·	
		_		
olume of Material D Bhis		DVard 12		allons
Wash Out	Quit			ahdis Chame
hereby certify that according to the 980 regulatory determination, the al	Resource Conservation and Recover described waste is: (Check t	overy Act (RCRA) an he appropriate classifi	d the US Environmental cation)	Protection Agency's Jui
hereby certify that according to the 980 regulatory determination, the al RCRA Exempt: Oil field wastes waste. RCRA Non-Exempt: Oil field w characteristics established in RCR/ as amended. The following docume	Resource Conservation and Recover described waste is: (Check to a generated from oil and gas exp waste which is non-hazardous the A regulations, 40 CFR 261.21-261 entation is attached to demonstra	overy Act (RCRA) an he appropriate classifi loration and production hat does not exceed .24, or listed hazardou te the above-described	d the US Environmental cation) n operations and are no the minimum standards s waste as defined in 40 C I waste is non-hazardous	Protection Agency's Ju t mixed with non-exemp for waste hazardous to CFR, part 261, subpart I . (Check the appropriat
hereby certify that according to the 989 regulatory determination, the al 1 RCRA Exempt: Oil field wastes waste. 1 RCRA Non-Exempt: Oil field w characteristics established in RCR/ as amended. The following docum- items)	Resource Conservation and Recover described waste is: (Check to a generated from oil and gas exp waste which is non-hazardous the A regulations, 40 CFR 261.21-261 entation is attached to demonstra	overy Act (RCRA) an he appropriate classifi loration and production hat does not exceed .24, or listed hazardou te the above-described	d the US Environmental cation) n operations and are no the minimum standards s waste as defined in 40 C l waste is non-hazardous	Protection Agency's Ju t mixed with non-exemp for waste hazardous b CFR, part 261, subpart I . (Check the appropriat
hereby certify that according to the 980 regulatory determination, the al 980 RCRA Exempt: Oil field wastes waste.	Resource Conservation and Recover described waste is: (Check to a generated from oil and gas exp waste which is non-hazardous the A regulations, 40 CFR 261.21-261 entation is attached to demonstration azardous Waste Analysis	covery Act (RCRA) an he appropriate classifi loration and production at does not exceed .24, or listed hazardou te the above-described occess Knowledge	d the US Environmental cation) in operations and are no the minimum standards s waste as defined in 40 C d waste is non-hazardous Other (Provide descripti	Protection Agency's Jui t mixed with non-exemp for waste hazardous b CFR, part 261, subpart D . (Check the appropriat
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