# Holly Energy Partners Mimosa Gathering Line Closure Report

### **Eddy County, New Mexico**

July 24, 2013



#### Prepared for:

Holly Energy Partners P.O. Box 1260 Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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#### I. Company Contacts

Representative	Company	Telephone	E-mail
Bill Green	Holly Energy Partners	575-748-8968	bill.green@hollyenergy.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

#### II. Background

Safety and Environmental Solutions, Inc. (SESI) was contracted by Holly Energy Partners (HEP) to perform site assessment of a release area at the Mimosa Gathering Line located in Section 30 of Township 17 South, Range 29 East, Eddy County, New Mexico.

The New Mexico Oil Conservation Division (OCD) C-141 was filed on April 19, 2012. The cause of the release was listed as corrosion. Pumping sources were immediately shutdown and the flow path was diked. Impacted soils at the source were excavated and placed on plastic to allow repairs to the line. The flow path is located in the Arco Road south ditch. Clean-up crews were dispatched and free product was removed. Approximately 12.5 barrels of crude oil was released in which 10 barrels were recovered.

#### III. Surface and Ground Water

The nearest groundwater record is listed with the United States Geological Survey (USGS) is in Section 22 Range 28 East and Township 17 South, which is located 2.8 miles northwest of the site. The depth to groundwater was reported at 79 feet in February 1999. The New Mexico Office of the State Engineer did not have records of any groundwater withdrawals in the nine contiguous sections centered on Section 30.

During a meeting with the local OCD representative discussed personal knowledge of the last depth to water (DTW) measurement of an unmapped nearby well that was around 90' BGS. The surface relief of the site to the water well is in excess of 100'. This indicates the DTW at the subject site to be well over the 100' BGS.

#### IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the OCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 ppm total petroleum hydrocarbons (TPH).

Depth to Ground Water:			
(Vertical distance from contaminants to	Less than 50 feet	20 points	
seasonal high water elevation of	50 feet to 99 feet	10 points	
groundwater)	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	
water source; or less than 1000 feet from all	No	0 points	X
other water sources)		·	

Distance to Surface Water:			
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches)	>1000 feet	0 points	X
	RANKING SCORE (TO)	AL POINTS)	0

#### V. Work Performed

On April 20, 2012, the site was mapped and photographed. An excavation approximately 6 feet in depth was observed where the release had occurred. The spoils of the excavation had been stockpiled on plastic next to the excavation.

On April 26, 2012, the bottom of the excavation and the spoils pile were sampled. The results of the analyses indicate that the levels of TPH and benzene in the bottom of the excavation required additional soil excavation.

April 26, 2013 Sample		TPH 8015M (mg/kg)	A	Benzene	Toluene	Ethyl- benzene	Total Xylenes
ID	GRO C <sub>6</sub> -C <sub>10</sub>	DRO >C <sub>10</sub> -C <sub>28</sub>	DRO Ext >C <sub>28</sub> -C <sub>35</sub>	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bottom of Excavation	17200	18900	2340	351	933	450	647
Spoils Composite	12700	27300	3620	107	484	334	518

On June 14, 2012, Atkins Engineering Associates advanced two boreholes near the release. Borehole #1 was advanced to a depth of 15' and Borehole #2 to a depth of 20'. Samples were retrieved at 5 ft. intervals. Vertical extent of soil impacts was delineated at a depth of 10 to 15 feet, and all values are below 5,000 ppm TPH.

June 14, 2013 TPH 8015M (mg/kg)		(mg/kg) Bei		Toluene	Ethyl- benzene	Total Xylenes
ID	GRO C <sub>6</sub> -C <sub>10</sub>	DRO >C <sub>10</sub> -C <sub>28</sub>	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH #1	<10.0	41.0	<0.050	<0.050	<0.050	<0.150
BH # 1 -15'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150
BH # 2 -10'	<10.0	220	< 0.050	<0.050	0.129	0.351
BH # 2 -15'	<10.0	16.1	<0.050	<0.050	<0.050	<0.150
BH # 2 -20'	<10.0	27.4	<0.050	.<0.050	<0.050	<0.150

On January 14, 2013, the site excavation was expanded until all the east and south walls and bottom of the excavation were at depths corresponding to a depth below the target level of 5,000 ppm TPH. Excavation to the north was ceased once the side of the adjacent lease road was reached. The results of the analysis are as follows:

January 14, TPH 8015M 2013 (mg/kg)			Benzene	Toluene	Ethyl- benzene	Total Xylenes	BTEX (mg/kg)
Sample ID	GRO C <sub>6</sub> -C <sub>10</sub>	DRO >C <sub>10</sub> -C <sub>28</sub>	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
South Wall	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
East Wall	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300
Bottom Hole	<10.0	53.4	<0.050	<0.050	<0.050	<0.150	<0.300

Mr. Mike Bratcher, New Mexico Oil Conservation Division, (NMOCD) agreed the impacted soil had been delineated and removed, and approved the excavation for backfilling. The excavation was backfilled with 160 cubic yards of soil and returned to normal grade.

Excavated soils were disposed at R360 Landfill, an NMOCD approved facility on July 8 and 9, 2013. (Appendix A)

#### VI. Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with NMOCD requirements. SESI, on behalf of HEP, respectfully submits this closure report for your consideration and approval.

#### VII. Figures & Appendices

Figure 1 – Vicinity Map

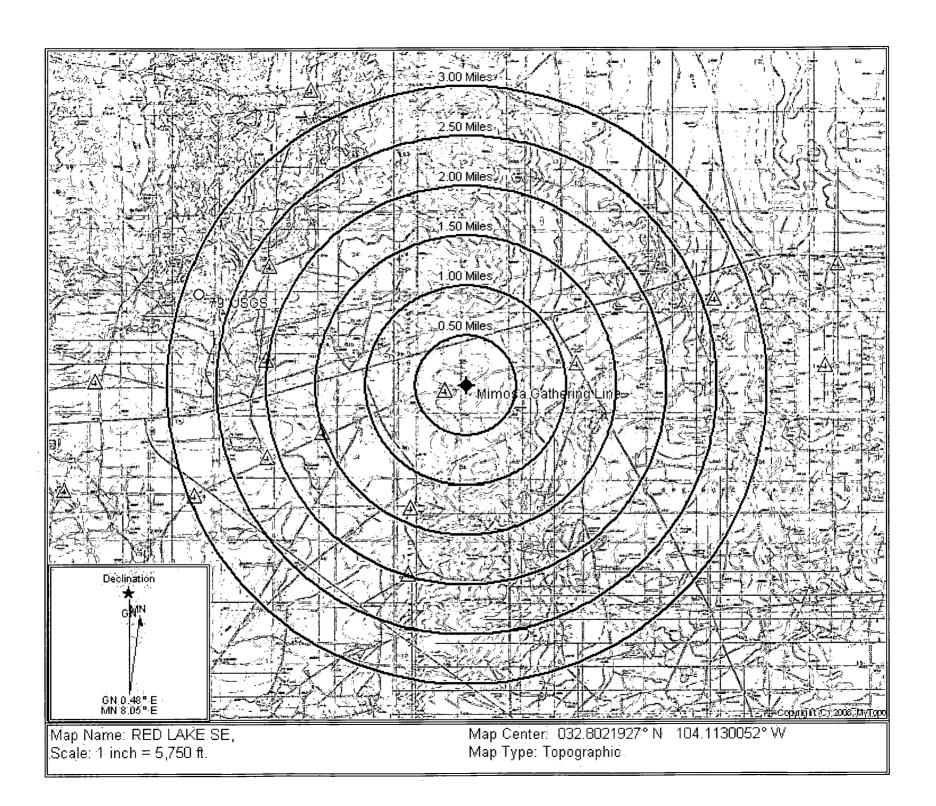
Figure 2 - Site Plan

Appendix A - Analytical Results

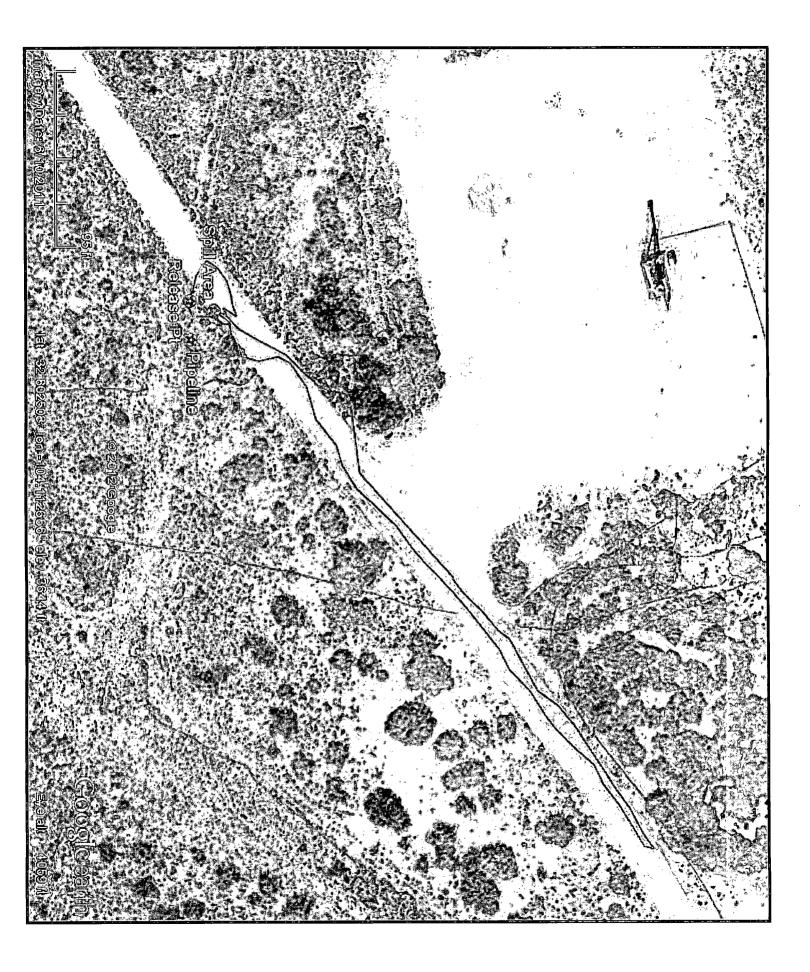
Appendix B – Site Photographs

Appendix C - C-141

## Figure 1 Vicinity Map



### Figure 2 Site Plan



## Appendix A Analytical Results

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		•	



April 30, 2012

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: MIMOSA

Enclosed are the results of analyses for samples received by the laboratory on 04/26/12 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 'Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab-accred-certif.html">www.tceq.texas.gov/field/qa/lab-accred-certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552:2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240.

Fax To:

(575) 393-4388

Received: Reported: 04/26/2012

04/30/2012

MIMOSA

Project Name: Project Number:

NONE GIVEN

Sampling Date:

04/26/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: BOTTOM OF EXCAVATION (H200964-01)

BTEX 8021B	mg/kg		Analyze	d By: AP		<u>.</u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	351	5.00	04/27/2012	ND	2.05	103	2.00	2.17	
Toluene*	933	5.00	04/27/2012	ND	2.16	108	2.00	2.29	
Ethylbenzene*	450	5.00	04/27/2012	ND	2.16	108	2.00	2.00	
Total Xylenes*	647	15.0	04/27/2012	ND	6.69	111	6.00	2.48	
Surrogate: 4-Bromofluorobenzene (PIL	127%	64.4-13	4						
TPH 8015M	mg/l	кg	Analyzed By: MS			<u> </u>	<u> </u>		S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17200	100	04/28/2012	ND	180	90.1	200	0.230	
DRO >C10-C28	18900	100	04/28/2012	ND	184	91.9	200	1.50	
EXT DRO >C28-C35	2340	100	04/28/2012	ND					
Surrogate: 1-Chlorooctane	240 %	55.5-15	4						
Surrogate: 1-Chlorooctadecane	235 %	57.6-15	8						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other claise whatscener shall be deemed waived unless made in writing and, received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business inferruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratoness.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

04/26/2012

Sampling Date:

04/26/2012

Reported:

04/30/2012

Sampling Type:

Soil

Project Name:

**MIMOSA** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

NOT GIVEN

Jodi Henson

#### Sample ID: SPOILS COMPOSITE (H200964-02)

BTEX 8021B	mg/kg		Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	107	5.00	04/30/2012	ND	2.05	103	2.00	2.17	
Toluene*	484	5.00	04/30/2012	ND	2.16	108	2.00	2.29	
Ethylbenzene*	334	5.00	04/30/2012	ND	2.16	108	2.00	2.00	
Total Xylenes*	518	15.0	04/30/2012	ND	6.69	111	6.00	2.48	
Surrogate: 4-Bromofluorobenzene (PIL	131 %	6 64.4-13	34					-	
TPH 8015M	mg/	kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12700	100	04/28/2012	ND	180	90.1	200	0.230	
DRO >C10-C28	27300	100	04/28/2012	ND	184	91.9	200	1.50	
EXT DRO >C28-C35	3620	100	04/28/2012	ND					
Surrogate: 1-Chlorooctane	266%	6 55.5-15	i+				<u> </u>		
Surrogate: 1-Chlorooctadecane	282 %	6 57.6-15	ī8						

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\*=Accredited Analyte.

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Celeg D. Kuna

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Celegis Keene

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#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 F	ax (505) 393-2	476																			Page	<u></u> c	i	-	
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Page 5 of 5



June 21, 2012

Bob-Allen Safety & Environ

Safety & Environmental Solutions

703 Ëast Clinton

Hobbs, NM 88240

RE: HOL-12-009

Enclosed are the results of analyses for samples received by the laboratory on 06/14/12 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240. (575) 393-4388

Fax To:

Received:

06/14/2012

06/21/2012

Sampling Date:

06/14/2012

Reported:

Sampling Type:

Project Name:

HOL-12-009

Sampling Condition:

Cool & Intact

Project Number:

MIMOSA GATHERING LINE

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

#### Sample ID: BH #1 - 10' (H201353-01)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2012	ND	1.93	96.5	2.00	7.45	
Toluene*	<0.050	0.050	06/18/2012	ND	1.94	97.1	2.00	6.42	
Ethylbenzene*	<0.050	0.050	06/18/2012	ND	1.96	98.2	2:00	6.95	
Total Xylenes*	<0.150	0.150	06/18/2012	ND	5.91	98.6	6.00	6.73	
Surrogate: 4-Bromofluorohenzene (PIE	113 9	6 89.4-12	26						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2012	ND	180	89.9	200	3.86	
DRO >C10-C28	41.0	10.0	06/18/2012	ND	183	91.3	200	7.90	
Surrogate: 1-Chlorooctane	86.1	% 65.2-1+	10						
Surrogate: 1-Chlorooctadecane	97.9	% 63.6-15	i <i>4</i>						

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Kerre

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

06/14/2012

Sampling Date:

06/14/2012

Reported:

06/21/2012

Sampling Type:

Soil

Project Name:

HOL-12-009

Sampling Condition:

Cool & Intact

Project Number:

MIMOSA GATHERING LINE

Sample Received By:

Jodi Henson

Project Location:

Surrogate: 1-Chlorooctadecane

LOCO HILLS, NM

93.6 %

63.6-154

Sample ID: BH #1 - 15' (H201353-02)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2012	ND	2.01	100	2.00	5.58	
Toluene*	<0.050	0.050	06/20/2012	ND	2.01	100	2.00	5.58	
Ethylbenzene*	<0.050	0.050	06/20/2012	ND	2.04	102	2.00	5. <i>7</i> 6	
Total Xylenes*	<0.150	0.150	06/20/2012	ND	6.14	102	6.00	5.84	
Surrogate: 4-Bromofluorobenzene (PIE	105	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2012	ND	180	89.9	200	3.86	
DRO >C10-C28	<10.0	10.0	06/18/2012	ND	183	91.3	200	7.90	
Surrogate: 1-Chlorooctane	77.8	% 65.2-14	0						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whetasover shall be deemed, waved unless made, in writing and recovered by Cardinal within thirty. (23) days after completion of the applicable service. In no event shall cardinal be lable for incidental or consequential damages, including those incidents by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reported except in full with written approved of Cardinal Laboratomes.

Celeg D. Keine Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240.

Fax To:

(575) 393-4388

Received: Reported: 06/14/2012

06/21/2012

HOL-12-009

Project Name: Project Number: Project Location:

MIMOSA GATHERING LINE

LOCO HILLS, NM

Sampling Date:

06/14/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: BH #2 - 10' (H201353-03)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2012	ND	2.01	100	2.00	5.58	
Toluene*	<0.050	0.050	06/20/2012	ND	2.01	100	2.00	5.58	
Ethylbenzene*	0.129	0.050	06/20/2012	ND.	2.04	102	2.00	5.76	
Total Xylenes*	0.351	0.150	06/20/2012	ND	6.14	102	6.00	5.84	
Surrogate: 4-Bromofluorobenzene (PIL	113 9	% 89.4-12	6	<del>_</del>					
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10:0	10.0	06/18/2012	ND	180	89.9	200	3.86	
DRO >C10-C28	220	10.0	06/18/2012	ND	183	91.3	200	7.90	
Surrogate: 1-Chlorooctane	90.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1093	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other clause whetabever shall be defended waveed unless made in writing and received by Cardinal within thirty (20) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including those incidental or consequential damages, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Keens

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 8



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240. (575) 393-4388

Fax To:

Received: Reported: 06/14/2012

06/21/2012

Project Name: Project Number: HOL-12-009

MIMOSA GATHERING LINE

Project Location:

LOCO HILLS, NM

Sampling Date:

Soil

Sampling Type: Sampling Condition:

06/14/2012 Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BH #2 - 15' (H201353-04)

BTEX 8021B	mg/k

	37	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	06/20/2012	ND	2.01	100	2.00	5.58	
Toluene*	<0.050	0.050	06/20/2012	ND	2.01	100	2.00	5.58	
Ethylbenzene*	<0.050	0.050	06/20/2012	ND	2.04	102	2.00	5.76	
Total Xylenes*	<0.150	0.150	06/20/2012	ND	6.14	102	6.00	5.84	
Surrogate: 4-Bromofluorohenzene (PIE	107	% 89.4-12	6						
TPH 8015M	mg,	kg	Analyzed By: MS				<u> </u>		····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
				NB	100	89.9	200	3.86	
GRO C6-C10	<10.0	10.0	06/18/2012	ND	180	09.9	200	3.00	

Analyzed By: ZZZ

Surrogate: 1-Chlorooctane 86.3 % 65.2-140 63.6-154 Surrogate: 1-Chlorooctadecane 102%

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 8



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

(575) 393-4388 Fax To:

Received:

06/14/2012 06/21/2012 Sampling Date: Sampling Type: 06/14/2012

Reported:

Sampling Condition:

Soil

Project Name:

HOL-12-009

Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location:

MIMOSA GATHERING LINE

LOCO HILLS, NM

Sample ID: BH #2 - 20' (H201353-05)

BTEX 8021B	mg/	kg	Analyze	d By: 222					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2012	ND	2.01	100	2.00	5.58	
Toluene*	<0.050	0.050	06/20/2012	ND	2.01	100	2.00	5.58	
Ethylbenzene*	<0.050	0.050	06/20/2012	ND	2.04	102	2.00	5.76	
Total Xylenes*	<0.150	0.150	06/20/2012	ND	6.14	102	6.00	5.84	
Surrogate: 4-Bromofluorobenzene (PIE	107	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2012	ND	180	89.9	200	3.86	
DRO >C10-C28	27.4	10.0	06/18/2012	ND	183	91.3	200	7.90	
Surrogate: 1-Chlorooctane	91.0	% 65.2-14	0						

107% Surrogate: 1-Chlorooctadecane 63.6-154

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Page 6 of 8



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte.

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Page 7 of 8

## ARDINAL LABORATORIES

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 Fax (505) 393-2					•	•	Page 1	of \		
Company Name:			BILL TO	405000		. AN	ALYSIS I	REQUEST		<del>-</del>	
Project Manager:	CONCEY OF MITTAIN OFFICE	ooidions, mc.	P.O. #:	ADMINISTRATICS (		T	1	7.5.0.1	7	[	
Address:	703 East Clinton	<del></del>	Company: Same					1	1		
City:		Zíp: 88240	Attn:		Λ.						
Phone #:		-393-4388	Address:		Madir (ED						
Project #: 401	[2009] Project Owner	7.1	City:		i <u>L</u>						
	Al Project Owner	1,401.19	1.		8		1				
Project Name:	Winds Clills alm	) Live			2	1.					1 -
roject Location:	Toco 14,112 Was	<u> </u>	Phone #: Fax #:		1						1
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2	BH#1-15"	GIV		0920	7.					A. Frankley	MANTERS
3	1814 HZ- 10'	GI		MOD .	フン						
4	BH # Z-15	GIV		1015	//						
2	BH H Z - 20'	61/		1040	1 V						
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† Cardinal o	cannot accept verbal changes. Pleas	e fax written changes to	575-393-2476.								
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Page 8 of 8



January 21, 2013

Bob Allen Safety & Environmental Solutions 703 East Clinton. Hobbs, NM 88240

RE: MIMOSA GATHERING LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/15/13 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3: 'Accreditation applies to drinking water, non-potable-water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 H

Haloacetic Acids (HAA-5)

Method EPA 524.2:

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/15/2013

Sampling Date:

01/14/2013

Reported:

01/21/2013

Sampling Type:

Soil

Project Name:

MIMOSA GATHERING LINE

Sampling Condition:

Cool & Intact

Project Number:

HOL-12-009

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

Sample ID: SOUTH WALL (H300093-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	%-Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTEX	< 0.300	0.300	01/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 89.4-12	26	•		•	,		
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	%-Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	<10.0	10:0	01/16/2013	ND	196	98.2	200	6.49	
Surrogate: 1-Chlorooctane	78.0	% 65:2-14	10.						
Surrogate: 1-Chlorooctadecane	84.6	% 63.6-15	5-4						

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 6



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

(575) 393-4388 Fax To:

Received: Reported:

DRO >C10-C28

01/15/2013

Project Name: Project Number: Project Location: 01/21/2013 MIMOSA GATHERING LINE

HOL-12-009

LOCO HILLS, NM

Sampling Date:

Sample Received By:

Sampling Type:

01/14/2013 Soil

Sampling Condition:

98.2

200

6.49

Cool & Intact

Jodi Henson

Sample ID: EAST WALL (H300093-02)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	<0.050	0.050	01/18/2013	ND.	1.98	98.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTEX	<0.300	0.300	01/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	1043	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2013	ND	188	93.8	200	6.01	

ND

196

01/16/2013

Surrogate: 1-Chlorooctane	81.4%	65.2-140
Surrogate: 1-Chlorooctadecane	94.4%	63.6-154

<10.0

10:0

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celego Keena

Page 3 of 6



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240.

(575) 393-4388 Fax To:

Received:

01/15/2013

Sampling Date:

01/14/2013

Reported:

01/21/2013

Sampling Type:

Soil

Project Name:

MIMOSA GATHERING LINE

Sampling Condition:

Cool & Intact

Project Number:

HOL-12-009

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

#### Sample ID: BOTTOM HOLE (H300093-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTEX	<0.300	0.300	01/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	105 9	% 89.4-12	26						
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	53.4	10:0	01/16/2013	ND	196	98.2	200	6.49	
Surrogate: 1-Chlorooctane	79.2	% 65.2-1+	10				···		
Surrogate: 1-Chlorooctadecane	88.4	% 63.6-15	14						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on repo

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

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25



January 23, 2013

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: MIMOSA GATHERING LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/17/13 8:00.

Cardinal Laboratorles is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

01/17/2013

Sampling Date:

01/16/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

MIMOSA GATHERING LINE

Sampling Condition:

Cool & Intact

Project Number:

HOL-12-009

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

#### Sample ID: C-1 STOCKPILE (H300118-01)

BTEX 8021B	mg	/kg	Analyze	ed By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.1	1.00	01/23/2013	ND	1.93	96.5	2.00	15.1	
Toluene*	183	1.00	01/23/2013	ND	1.90	95.2	2.00	14.9	
Ethylbenzene*	137	1.00	01/23/2013	ND	1.93	96.3	2.00	15.5	
Total Xylenes*	194	3.00	01/23/2013	ND	5.87	97.8	6.00	15.3	
Total BTEX	534	6.00	01/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL

159%

89.4-126

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damagos. Cardinal's lability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whetheever shall be deemed, waved unless made in writing and received by Cardinal within thirty. (23) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without leriblation, business interruptions, loss of use, or loss of profits incruned by clent, its subsidiaries, affiliates or sudespons arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keena

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



#### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's isobility and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsever shall be deemed waveed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal he liable for incidental or consequental damages, including, without imitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only on the samples identified above. This report half not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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City: Hobbs State: NM Zip: 88240 Phone #: 575-397-0510 Fax #: 575-393-4388								Address:						[ ]				. ]					.		
		Project Owner						Cit														1	.	İ	. !
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† Cardinal cannot accept-verbal changes, Please (ax written changes to 575-393-176.

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1305C07

June 14, 2013

Dave Boyer
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241

TEL: (575) 390-7067 FAX (575) 393-4388

RE: Holly Mimosa Gathering Line

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/31/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order 1305C07

Date Reported: 6/14/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Holly Mimosa Gathering Line

1305C07-001 Lab ID:

Client Sample ID: Stock Pile C-2

Collection Date: 5/27/2013 3:15:00 PM

Received Date: 5/31/2013-9:55:00 AM

Analyses	Result	RL Qu	al Units	_ DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0:47	mg/Kġ	20	6/6/2013 7:16:10 PM	7698
Toluene	5.8	0.95	mg/Kg	20:	6/6/2013 7:16:10 PM	7698
Ethylbenzene	9:0	0.95	mg/Kg	201	6/6/2013 7:16:10 PM	7698
Xylenes, Total	16	1⊹9	mg/Kg	20	6/6/2013 7:16:10 PM	7698
Surr: 4-Bromofluorobenzene	102	80-120	%REC	20	6/6/2013 7:16:10 PM	7698
VOLATILES BY 8260B/1311					Analyst	DAM
Benzene	ND	0.50	-mg/L	1	6/12/2013:4:49:48 PM	7826
2-Butanone	ÑD	10	mg/L	1	6/12/2013 4:49:48 PM	7826
Carbon Tetrachloride	ND	0:50	mg/L	1	6/12/2013 <sub>4</sub> 4:49:48 PM	7826
Chlorobenzene	ND	100'	mg/L	1	6/12/2013 4:49:48 PM	7826
Chloroform	ЙD	6.0	mg/L	1	6/12/2013 4:49:48 PM	7,826
1,4-Dichlorobenzene:	ND.	7:5	mg/L	1.	6/12/2013 4:49:48 PM	7826
1,2-Dichloroethane (EDC)	ND	0:50	-mg/L	1	6/12/2013 4:49:48 PM	7826
1,1-Dichloroethene	ÑĎ	Ó.70	mg/L	1	6/12/2013 4:49:48 PM	7826
Hexachlórobútadiene	ND	0:50	mg/L	1	6/12/2013 4:49:48 PM	7826
Tetrachloroethene (PCE)	NÐ	0.70	mg/L	1	6/12/2013 4:49:48 PM	7826
Trichloroethène (TCE)	ŃD	0,50	mg/L	ኀ	6/12/2013 4:49:48 PM	7826
Vinyl chloride	ЙD	0.20	mg/L	1	6/12/2013 4:49:48 PM	7826
Surr: 1,2-Dichloroethane-d4	.82.4	69.9-130	%REC	1	6/12/2013 4:49:48 PM	7826
Surr: 4-Bromofluorobenzeñe	98.1	71.2-123	%REC	1	6/12/2013 4:49:48 PM	7826
Surr: Dibromofluoromethane	₄87 <b>∶4</b>	73:9-134	*%REC	1	6/12/2013 4:49:48 PM	7826
Surr: Toluene-d8	93.0	81.9-122	%REC	1.	6/12/2013 4:49:48 PM	7826

Matrix: SOIL

Refer to the QC:Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- É Value above quantitation range
- Analyte detected below quantitation limits
- Ö RSD is greater than RSDlimit
- R. RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND.

Not Detected at the Reporting Limit Page 1 of 3 Sample pH greater than 2 for VOA and TOC only.

P.

Reporting Detection Limit



YOUR LAB OF CHOICE

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615), 758-5859

Tax I.D. 62-0814289

Est: 1970

REPORT OF ANALYSIS

Anne Thorne Hall Environmental Analysis Eaborat 4901 Hawkins NE Albuquerque, NM 87109

June 11, 2013

ESC Sample # :

June

08, 2013

L640132-01

Date Received : Description :

Sample ID

Site ID. :

1305C07-001B STOCK PILE C-2.

Project # :

Collected By : 05/27/13 15:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity	Non-Corrosive			9045D	06/10/13	1.
Ignitabilitý	See Footnote		Deg. F	D93/1010A	06/10/13	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/kg	90128	06/10/13	1
Reactive Sulf. (SW846 $7$ , 3.45,1)	BDL	25	mg/kg	9034/9030 <u>B</u>	06/10/13	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL) Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/11/13 17:14 Printed: 06/11/13 17:14 L640132-01 (IGNITABILITY) - did not ignite @ 170f



YOUR MAB OF CHOICE

Hall Environmental Analysis Laboratory

Anne Thorne 4901 Hawkins NE

Albuquerque, NM 87109

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L640132

June 11, 2013

Analyte	Result	Laborato Units	ry Blank % Rec	Limit	Batch	Date Analyzed
Reactive CN (SW846 7.3.3.2)	, < .125		e Rec			06/10/13·15:34
Reactive Sulf. (SW846 7.3.4.1)	< .25	mg/kg				06/10/13 14:00
		Dupl	icate			
Analyte	Units	Result D	uplicate F	PD Limit	. Ref Samo	Batch
Corrosivity	0.	. 0		$\left( \left( \sum_{k=1,\ldots,k} F_{(k,1,\ldots,k)} - \frac{1}{k} 0 \right) \right) = \int_{0}^{\infty}$	L639361-	01 WG665529
Reactive CN (SW846 7.3.3.2) Reactive CN (SW846 7.3.3.2)	mg/kg 0 mg/kg 0			20 - 20 -	L639361- L640123-	01 WG665632 01 WG665632
Reactive Sulf.(SW846 7.3.4.1) Reactive Sulf.(SW846 7.3.4.1)	mg/kg 0 mg/kg 0	0 0 2	) 	20 20	L639361- L640123-	
Ignitability .	Deg. F. 0	. 0		10	,L6401'32-	01 WG665736
	5-	Laboratory C	ontrol Sample	e. Pa		
Analyte	Units	Known Val	Resul	t: %, Rec	Limit	Batch
Corrosivity Table 1987 Telephone	San San San San San San San San San San	5.79	``5y80 <sup>™</sup> ⊋	1005	98.3-101;	7 WG665529
Reactive Sulf. (\$W846 7:3:4:1).	mg/kg	100	80.0	80.0	70-130	WG665510
Ignitability	Deg. F	82	83.0	101.	93-107	WG665736
	Labo:	ratory Contro	l Sample Dupl	icate		
Analyte	Units Res	ult Ref	%Rec.	Limit.	RPD Lin	nit Batch
Corrosivity	5.8	5.80	100.	90.3-101.7	. 0	WG665529
Reactive Sulf. (SW846 7.3.4:1)	mg/kg 75'.	o 80.0	75'. 0	70-130	6.45 20	wG665510
Ignitability	Deg. F 82.		100.	93-107	1.21 20	WG665736

Batch number /Run number / Sample number cross reference

WG665529: R2701400: L640132-01. WG665632: R2701560: L640132-01 WG665510: R2701600: L640132-01 WG665736: R2703422: L640132-01

<sup>\* \*</sup> Calculations are performed prior to rounding of reported values.

\* Performance of this Analyte is outside of established criterias

For additional information, please see Attachment A Thist of Analytes with QC Qualifiers.

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1305C07** *14-Juni-13* 

Client:	Safety & Environmental Solutions
Project:	Holly Mimosa Gathering Line

Sample ID MB-7698	SampT	SampType: MBLK		Tes	Code: El	PA Method	8021B: Volat	iles.		
Client ID: PBS	Batch	Batch ID: 7698		RunNo: 11056						
Prep Date: 5/31/2013	Analysis D	Date: 6/	4/2013	\$	eqNo: 3	13337	.Units: mg/K	g		
Analyte	Result	PQL;	SPK value	SPK Ref Val	%REC	LowLimit	HighĽimit	%RPD	RPDLiṃit	Qual
Benzene	NĎ	0.050								
Toluene	NĎ	0.050								
Ethylbenzene	ЙИ	0.050								
Xylenes, Total	ЙĎ	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	.80	120			

Sample ID LCS-7698 Client ID: LCSS Prep Date: 5/31/2013	•	Γype⊱LC h IĎ: <b>76</b> 9 Date: <b>6</b> /4	98	·F	tCode: El RunNo: 1 SeqNo: 3	1056	8021B: Volai ⊍nits: m̃g/k		_	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit.	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.0502	1,000	0	86.8	80.	120			
Toluene	0.86	0:050	1.000	0.	85.6	80	120			
Ethylbenzene	0.86	0.050	1.000	Ó	85.6	80;	120			
Xylenes, Totäl	2.6	0.101	3:000	Ö	86.7	80	120			
Surr: 4-Bromofluorobenzene	0.88		1,000		88:1	80:	120			

Sample ID 1305C03-001AM Client ID: BatchQC		SampTýpe: MS Batch ID: 7698			TestCode: EPA Method 8021B: Volatiles.					
Prep Date: 5/31/2013	Analysis:	Date: 6/	4/2013	.\$	SeqNo: 3	13340	Units: mg/k	(g		
Analyte	Result	PQL.	SPK value	SPK Ref Val	%REC	EowLimit-	HighLimit	%RPD	RPDLimit	Qual
Benzene	0:77	0.046	0.9259	0.01403	81.4	67.2	1.13			
Toluene	0.77	0.046	0.9259	0.01235	81.4	62.1	116			
Ethylbenzene	0.78	0.046	0.9259	0.01590	82.8	67.9	127			
Xylenes, Total	2.4	0.093	2.778	0.02460	84.8	60:67	134			
Surr: 4-Bromofluorobenzene	0.85		0:9259		91.8	80.	120			

Sample ID 1305C03-001AN	TestCode: EPA Method 8021B: Volatiles									
Client ID: BatchQC Batch ID: 7698			F	inNo: 1	1056					
Prep Date: 5/31/2013	'Analysis: C	Date: 6/	4/2013	:8	SeqÑo: 3	13341	Units: mg/k	Ćg		
Analýte	Result	PQL.	SPK value	SPK-Ref. Val	%ŘE©	LowLimit	HighLimit	%ŘŖĎ	RPDLimit	Qual
Benzene	0:76	0.046	0:9259	0.01403	80.7	67:2	1,13	0.775	14.3·	
Toluene	0.76	0.046	0.9259	0.01235	-80.8	62,1	1,16	0.764	1,5.9	
Ethylbenzene	0.77	0.046	0.9259	0.01590	81.4	67.9	127	1.67	14.4	
Xylenes, Total	2.3	0:093	2.778	0.02460	83.6	60.6	134	1.47	12.6	
Surr: 4-Bromofluorobenzene	0.84.		0.9259		90.8	·80 <sub>*</sub>	120	0	0	

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit.

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit.

Page 2 of 3

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1305C07

14-Jun-13

Client:

Safety & Environmental-Solutions

Project:

Holly Mimosa Gathering Line

Sample ID mb-7826	SampT	ype: ME	BLK	Ťes	tCode∶ <b>V</b> o	olatiles by 8	3260B/1311		· · · · · · · · · · · · · · · · · · ·	
Client ID: PBS	Batch	ID: 78	26	F	RunNo: 1	1268				
Prep Date: 6/10/2013	Analysis D	ate; 6/	12/2013	.8	SegNo: 3	18330	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	<u>LowLimit</u>	High Limit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
2-Butanone	Ν̈́D̈́	10								
Carbon Tetrachloride	ND	0:50								
Chlorobenzene	ИĎ	100								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ЙD	7.5								
1,2-Dichloroethane (EDC)	ΝĎ	0.50								
1,1-Dichloroethene	ŇD	0.70								
Hexachlorobutadiene	ND	0.50								
Tetrachloroethene (PCE)	ŅD	0.70								
Trichloroethene (TCE)	ŅD	0:50								
Vinyl chloride	NĎ	0.20								
Surr: 1,2-Dichloroethane-d4*	0.17		0.2000		83.6	69.9	130			
Surr. 4-Bromofluorobenzène	0.20		0.2000		101	71.2	123			
Surr: Dibromofluoromethane	0.17		0.2000		87:0	73.9	134			
Surr: Toluene-d8-	0.19		0,2000		95.5	81.9	122			

Sample ID Ics-7826 Client ID: LCSS		ype: <b>LC</b>			tCode: <b>V</b> e		3260B/1311				
Prep Date: 6/10/2013	Analysis E			<b>,</b>							
Analyte	Result	PQL.	SPK value	SPK Ref Val	%REC	LowLimit;	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.40	0:20	0:4000	, Ö.	99:7	51.1	171				
Chlorobenzene	0:41	0.20	0.4000	<b>0</b> .	102	36.1	191				
1,1-Dichloroethene	0:40	0:20	0.4000	0	98.8	49.1	162				
Trichloroethene (TCE):	0.38	0.20	0.4000	0.	95.8	41.2	166				
Surr: 1,2-Dichloroethane-d4	0.18		0.2000		88.7	69.9	130				
Surr: 4-Bromofluorobenzene	0.19		0.2000		93.1	71.2,	123				
Surr: Dibromofluoromethane	0.18		0.2000		92:2	73.9	134				
Surr: Toluene-d8	0.19		0.2000		95.6	81.9	122				

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit:
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE. Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

# Albuquerque, NM 87103 Sample Log-In Check List

Client Name:	Safety Env Solutions	Work Order Numbe	r;: 130 <u>5</u> ,007	·• ·	RcptNo: 1	
Received by/da	ate:	05 3 20	3_			
Logged By:	Ashley Gallegos	5/31/2013 9:55:00 AN	ń	A		
Completed By:	Ashley Gallegos	5/31/2013 12:12:46 P	M-	A		
Reviewed By:	IO	05/31/2013		V		
Chain of Cu		aprileos				
	eals intact on sample bottles	,	Yes 🗌	No 🗀	Not Present	
• • • • • • • • • • • • • • • • • • • •	Custody complete?		Yes 🗹	No 🗆	Not Present	
<del></del> -	he sample delivered?		<u>FedEx</u>			
<u>Log In</u>						
4. Was an at	tempt made to cool the samp	ples?	Yes 🗹	No 🗆	NA:	
5: Were all sa	amples received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗀	NA 🗆	
6. Sample(s)	in proper container(s)?		Yes' 🗹	No 🗆		
7. Sufficient s	sample volume for indicated i	test(s)?	Yes 🗹	No 🗆		
8. Are sample	es (except VOA and ONG) p	roperly preserved?	Yes 🗹	No 🗆	_	
9. Was prese	rvative added to bottles?		Yes	No 🗹	NA 🗆	
10.VOA viais	have zero headspace?		Yes 🗌	Ņo∙ □	No VOA Vials	
11. Were any	sample containers received	broken?	Yes 🗀	No 🗹	# of preserved	
	arwork match bottle labels? repancies on chain of custod	in	Yes 🗹	Ño. ☐	bottles checked for pH: (<2 or	>12 ûnless notêd)
· ·	es correctly identified on Cha		Yes 🗹	No 🔲	Adjusted?	
	what analyses were requeste		Yes 🔽	No 🗆		
	olding times able to be met? fy customer for authorization	.)	Yes 🗹	No 🗆	Checked by:	· · · · · · · · · · · · · · · · · · ·
Special Han	dling (if applicable)					
	notified of all discrepancies	with this order?	Yes 🗌	No 🗆	NA 🗹	
	con Notified:	Date:	The second secon	Phone Fax	☐ In Person	
	arding:	via.	☐ eiviāti. ☐	LINOINE TAX	L ill keisen	
1 -	nt Instructions:	and the second of the second	and the state of t	<u>and the second </u>	Santa and Santa and Santa and Santa and Santa and Santa and Santa and Santa and Santa and Santa and Santa and S	
17. Additional	remarks:					
18 <u>Cooler In</u> Cooler		Seal Intact Seal No.	Seal Date	Signed By		
	<del></del>					<del></del>

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<b>Chain-of-Custody Record</b>	Turn-Around Time:	HALL ENVIRONMENTAL		
Client Sofery + Englinarmentul	S Standard □ Rush	ANALYSIS LABORATORY		
Solution	Project Name: 140114	www.ballanvironmental.com		
Mailing Address: 703 EC (1270 N	MI MOSIA CORTHORINA LINE	4901 Háwkiñs NE - Albüguerque, NM 87109		
140bbs N.M 88240	Project #:	Tel. 505-345-3975 Fax 505-345-4107		
Phone #: 575 - 397- OS70	166-12-009	Analysis Request		
email or Fax#:	Project Manager:			
QA/QC Package:	Project Manager:  ALLEN, Bob	Gas or (8021)		
Standard	. <b>.</b>	TMB's;(8021) TPH:(Gas only) D'IDRO / MRO) 3:1) 270 SiMS) 270 SiMS) (A.1)		
Accreditation	Sampler: Sost Jerry Onlike Sines Language	NO 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
□ NELÄP □ Other	Onice: States = 1 = SNo. 1	E + 1 GRO GRO Or 82 (OA)		
□ EDD (Type)	Sampleziemperature Data	+ MTBE + MTBE 015B (G) Wethod 4 Wethod 5 (8310 or (8310 or (NOA) Semi-VC		
Data Time Matrix Secondo Boguest ID	Container Preservative	TEX + MiTBE + TMB's; (8021)  TEX + MITBE + TPH: (Gas only)  PH 8015B (GRO / DRO / MRO)  PH (Method 418:1)  DB (Method 504.1)  DB (Method 504.1)  CRA 8 Metals  nions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )  B81 Pesticides / 8082 PCB's  E60B (VOA)  Z7 € X		
Date   Time   Matrix   Sample Request ID	Container Type and # Preservative Type	BTEX + MTBE + TMB's;(8021) BTEX + MTBE + TPH:(Gas only) TPH 8015B (GRO / DRO / MRO TPH (Method 418:1) EDB (Method 504.1) EDB (Method 504.1) Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> ) 8081 Pesticides / 8082 PCB's 8260B (VOA)  \$275\times \times 01/27 1515 & STOCK PILE C-2		
CHECK CONTRACTOR				
		<del>╎┤┊╏╏╏╏╏</del>		
	<del>                                     </del>			
		<del> </del>		
Date: Time: Relinquished by:	Received by: Date Time	Remarks: Hold Sample For POSSIBLE TELPO CALL WITH  LET RESULTS ON SEND RESULTS  PEI BOB Add TELP WILLTED FOR THE POSSIBLE POSSIBLE PROPERTY OF THE POSSIBLE		
Date: Time: Retinquished by:	05 31 3. to 0955	Possible TELPO CAN wint		
Date. Time, Intellinguishingury.	The same same	(ST REGULTS ON SEND KENLTS		
If acceptant camples submitted to Hall Engine months may be sub-	contracted to other accordited laboratories. This serves as notice of this	possibility. Any sub-contracted data will be clearly notated on the analytical report.		



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1305C07

June 21, 2013

Dave Boyer Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 390-7067 FAX (575) 393-4388

RE: Holly Mimosa Gathering Line

Dear Dave Bover:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/31/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 14, 2013.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Matrix: SOIL

Client Sample ID: Stock Pile C-2

Project: Holly Mimosa Gathering Line

CLIENT: Safety & Environmental Solutions

Collection Date: 5/27/2013 3:15:00 PM

Lab ID: 1305C07-001

Received Date: 5/31/2013 9:55:00 AM

Analyses	Result	RL C	)ual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					,	Analyst	NSB
Benzene	ŅĎ	0:47		mg/Kg	20	6/6/2013 7:16:10 PM	7698
Toluene	5.8	0.95		mg/Kg	20,	6/6/2013 7:16:10 PM	7698
Ethylbenzene	9:0	0.95		mg/Kg	201	6/6/2013 7:16:10 PM	7698
Xylenes, Total	16	1∵9		mg/Kg	205	6/6/2013 7:16:10 PM	7698
Surr: 4-Bromofluorobenzene	102	80-120		%REC	20	6/6/2013 7:16:10 PM	7698
MERCURY, TCLP						Änalyst	: IDC
Mercury	ND	0.020		mg/L	i	6/19/2013 12:33:43 PM	7994
EPA METHOD 6010B TCLP METALS						Analyst	JLF
Arsenic-	ND	5.0		ïmġ/L	1	6/19/2013 3:45:37 PM	8003
Barium	ND	100		mg/L	1	6/19/2013 2:38:47 PM	8003
Cadmium	, ND	1.0		mg/L	1	6/19/2013 2:38:47 PM	8003
Chromium	ND	5.0		mg/L	-1	6/19/2013 2:38:47 PM	80,03
Lead	ND	5:0		mg/L	1	6/19/2013;2:38:47 PM	8003
Selenium	ЙD	1.0		mg/L	1	6/19/2013 3:45:37 PM	8003
Silver	ND	5.0		mg/L	1	6/19/2013 2:38:47 PM	8003
EPA METHOD 82700 TCLP						Analyst	:: JDC
2-Methylphenol	ЙD	200	H.	mg/L	4	6/19/2013 8:47:04 PM	8000
3+4-Methylphenol	ND	200	H	.mg/Ĺ	i	6/19/2013 8:47:04 PM	8000
Phenol	ND	<b>200</b>	Н	mg/L	1	6/19/2013 8:47:04 PM	8000
2,4-Dinitrotoluënë	ND	0.13	Н	mg/L	1	6/19/2013 8:47:04 PM	8000
Hexachlorobenzene:	NĐ	0.13	Н	mg/L	1,	6/19/2013 8:47:04 PM	8000
Hexachloroputadiene	ŅD	0.50	Н	mg/L	1.	6/19/2013 8:47:04 PM	8000
Hexachloroethane	ND	3.0	Н	mg/L	1	6/19/2013 8:47:04 PM	8000
Nitrobenzene	ND	2.0	H	:mg/L	1	6/19/2013 8:47:04 RM	8000
Pentachlorophenol	ND	100	Ĥ	mg/L	1	6/19/2013 8:47:04 PM	8000
Pyridinė	ND	5:0	Н	mg/L	1	6/19/2013 8:47:04 PM	8000
2,4,5-Trichlorophenol	ЙD	400	H	mg/L	1	6/19/2013 8:47:04 PM	8000
2,4,6-Trichlorophenol	ÑD	2.0	Ĥ	mg/L	4	6/19/2013 8:47:04 PM	8000
Cresols; Total	ЙD	200	Н	mg/L	1	6/19/2013-8:47:04 PM	8000
Surr: 2,4,6-Tribromophenol	74.0	18.7-148	Н	%REC	1	6/19/2013 8:47:04 PM	.8000
Surr: 2-Fluorobiphenyl	64.6	53.8-117	Н	%REC	1	6/19/2013 8:47:04.PM	8Ó00
Surr: 2-Fluorophenol	:55.4	10.5-106	Н	%REC	1	6/19/2013 8:47:04 PM	8000
Surr: 4-Terphenyl-d14	65.1	43.8-108	Ĥ	%REC	1,	6/19/2013 8:47:04 PM	8000
Surr: Nitrobenzene-d5	75.6	36.7-128	Н	%REC	1	6/19/2013 8:47:04 PM	8000
Surr: Phenol-d5	45.3	18-70:1	Н	%REC	1.	6/19/2013 8:47:04 PM	8000
VOLATILES BY 8260B/1311						Anallys	t: DAM
Benzene	ND	0:50		mg/L	1	6/12/2013 4:49:48 PM	7826
2-Butanone	ND	10		mg/L	1	6/12/2013 4:49:48 PM	7826

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level..
- E Value above quantitation range
- Analyté detected below quantitation limits
- O RSD is greater than RSDlimit
- R. RPD outside accepted recovery limits:

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

ND Not Detected at the Reporting Limit Page 1 of 10 P Sample pH greater than 2 for VOA and TOC only.

- RL Reporting Detection Limit

#### **Analytical Report**

Lab Order 1305C07 Date Reported: 6/21/2013

### Hall Environmental Analysis Laboratory, Inc.

Client Sample . Stock Pile C-2

Project: Holly Mimosa Gathering Line

CLIENT: Safety & Environmental Solutions

Collection Date: 5/27/2013 3:15:00 PM

Lab ID: 1305C07-001

Received Date: 5/31/2013-9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
VOLATILES BY 8260B/1311	.,				Analyst	DAM
Carbon, Tetrachloride	ND	0.50	mg/L	1	6/12/2013 4:49:48 PM	7826
Chlorobenzene:	ND	100	mg/L	1	6/12/2013 4:49:48,PM	7826
Chloroform	ND	6.0	:mg/L	1	6/12/2013 4:49:48 PM	7826
1,4-Dichlorobenzene	ND	7.5	mg/L	1	6/12/2013 4:49:48 PM	7826
1,2-Dichloroethane (EDC)	ЙĎ	0.50	mg/L	1	6/12/2013 4:49:48 PM	7826
1,1-Dichloroethene	ND	0.70	mg/L	1	6/12/2013 4:49:48 PM	7826
Hexachlorobutadiene	ND	0.50	mg/L	1.	6/12/2013 4:49:48 PM	7826
Tetrachloroethene (PCE)	ŃD	0.70	·mg/L	1	6/12/2013 4:49:48 PM	7826
Trichloroethene (TCE)	ÑĎ	0.50	mg/L	1.	6/12/2013 4:49:48 PM	7826
Vinyl chloride	ND	0.20	mg/L	1	6/12/2013 4:49:48 PM	7826
Surr: 1,2-Dichloroethane-d4	82:4	69 9-130	%REC	1	6/12/2013 4:49:48 PM	7826
Surr: 4-Bromofluorobenzene	98.1	71.2 <del>,</del> 123	%REC	ï	6/12/2013 4:49:48 PM	7826
Surr: Dibromofluoromethane	87.4	73.9-134	%REC	1	6/12/2013 4:49:48 PM	7826
Surr: Toluene-d8	93.0	81.9-122	%REC	1	6/12/2013 4:49:48 PM	7826

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.,
- Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Not Detected at the Reporting Limit Page 2 of 10 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615), 758-5859

Tax I.D. 62-0814289

Est. 1970

ESC: Sample # : L640132-01

YOUR LAB OF CHOICE

REPORT OF ANALYSIS

June 11, 2013

Anne Thorne Hall Environmental Analysis Laborat 4901 Hawkins NE Albuquerque, NM 8/109

Date Received : Description :

June

08, 2013

Sample ID

1305C07-001B STOCK PILE C-2

Site ID :

Project # :

Collected By : Collection Date : 05/27/13 15:45

Parameter	Result	Det. Limit	Units	Method	Ďate	Dil.
Corrosivity	Non-Corrosive			9045D	06/10/13	1
Ignitability	See Footnote		Deg. F	D93/1010A	06/10/13	1
Reactive CN (SW846) 7.3.3.2)	BDL	0,.125	mg/kg	90128	06/10/13	1
Reactive Sulf. (SW846 7:3.4.1)	BDL	25.	mg/kg	9034%9030B	06/10/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/11/13 17:14 Printed: 06/11/13 17:14 L640132-01 (IGNITABILITY) - did not ignite @ 170f



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory

Anne Thorne 4901 Hawkins NE

Albuquerque, NM 87109

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report

Level II

L640132

June 11, 2013

		Laboratory Bl		= 8 of	<b>.</b>	
Analyte	Result	Units,	%, Rec	Limit	Batch Dat	e Analyzed
Reactive CN (SW846 7.3.3.2)	< :125	mg/kg			WG665632:06/	10/13-15:34
Reactive Sulf.(SW846 7.3.4.1)	< 25	mg/kg			WG665510 06/	10/13 14:00
		Duplicate				
Analyte	Units R	esult Duplic	eate RPD	Limit.	Ref Samp	Batch
Corrosivity		Ö	in a world of the second	10.	L639361-01	WG665529
Reactive CN (SW846 7.3.3.2) Reactive CN (SW846 7.3.3.2)	mg/kg 0. mg/kg 0.	0.01	. <u> </u>	20	1639361-01 1640123-01	WG665632 WG665632
Reactive Sulf.(SW846.7.3.4.1) Reactive Sulf.(SW846.7.3.4.1)	mg/kg 0 mg/kg 0	0.00 44,41,12,41,41,00	0	20	L639361-01 L640123-01	WG665510 WG665510
Ignitability	Deg F 0	0: _	, 0 .	10	:L640132-01	WG665736
·	έ. τ	aboratory Contro	il Sample	·		
Analyte-	Units	Known Val	Result	%, Rec	Limit	Batch
Corrosivity has a profession who we have	A The Andrews	5. 79	5, 80	100%	98.3-101.7	WG665529
Reactive Sulf. (SW846 7/3.4.1)	mg/kg	100	80.0	80:0	70-130	WG665510
		Grand Land Sant Marin No.			and the Maria Common	1 14 11.
Ignitability	Deg. F	82	83.0	101	93-107	WG665736
	Labora	tory Control Sar	mole Duplicate			
Analyte	Units Resul	t Ref	%Rec	Limit RPD	Limi't	Batch
Cocrosivity	5,80	5.80	100.	98.3-101.7. 0	1 [[310]	WG665529
Reactive Sulf: (SW846 7.3.4.1)	mg/kg 75.0	80.0	. 75'(0)	, 70-1306.45	20	WG665510
Ignitability	Deg. F 82.0	80÷0 83.0	75:0 100.	93-107, 1.21	20	WG665736

Batch number /Run number / Sample number cross reference

WG665529: R2701400: L640132-01 WG665632: R2701560: L640132-01 WG665510: R2701600: L640132-01 WG665736: R2703422: L640132-01

<sup>\* \*</sup> Calculations are performed prior to rounding of reported values.

\* Performance of this Analyte is outside of established criteria:

For additional information, please see Attachment A. List of Analytes with QC Qualifiers.

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1305C07

21-Jun-13

Clie	nt:

Safety & Environmental-Solutions

Project: Holly Mimosa Gathering Line

Sample ID MB-7698	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 7698			·F	un No: 1	1056					
Prep Date: 5/31/2013	Analysis [	Date¦: 6/	4/2013	ş	SeqNo: 3	13337					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	ĽờŵLimit∛	High Limit	%RPD	RPDLimit	Qual.	
Benzene	ND	0:050									
l'oluene	ÑĎ	0:050									
Ethylbenzene	NĎ	0:050									
Xylenes, Total	NĎ	0.10									
Surr: 4-Bromoflyorobenzene	0.89		1.000		88.9	80	120				

SampType: LCS: Client ID: LCSS Batch ID: 7698					TestCode: EPA Method.8021B: Volatiles .RunÑo: 11056							
Prep Date: 5/31/2013	Analysis E	Date: 6/	4/2013	.8	SeqNo: '313338 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%,REÇ	LowLimit.	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.87	0:050	1.000	0-	86.8	80	120					
Toluene	0.86	0.050	1.000	0	85.6	80	120					
Ethylbenzene	0.86	0.050	1.000	Ö'	85.6	80	120					
Xylenes, Total	2.6	0.10	3.000	0	86.7	80	120					
Surr: 4-Bromofluorobenzene	'0:88		1.000		88.1	·80 <sup>‡</sup>	120					

Sample ID 1305C03-001AM Client ID: BatchQC Prep Date: 5/31/2013	Ĵ.	TestCode: EPA Method 8021B: Volatiles RunNo: 11056 SeqNo: 313340 Units: mg/Kg								
Analyte	Analysis ( Result	PQL;	SPK value		%REC	'LowLimit'	High Limit	%RPD	RPDLimit	Qual
Benzene	0.77	0.046	0.9259	0.01403	81.4	67.2	1.13			
Toluene	0.77	0:046	0,9259	0.01235	81.4	62.1	116			
Ethylbenzene	0.78	0.046	0.9259	0.01590	82:8	67.9,	127			
Xylenes, Total	2:4	0:093	2.778	0.02460	84.8	60.6	134			
Surr: 4-Bromofluorobenzene	0.85		0.9259		91.8	801	120			

Sample ID: 1305C03-001AN  Client ID: BatchQC  Prep Date: 5/31/2013		ÿpé:Mis hiD:76 Date:6/	98	F	twode: E RunNo: 1 SeaNo: 3	1056	nod 8021B: Volatiles: Units: mg/Kg			
Analyte	Result	PQL	SPK válue	ŠPK Ref. Val	%REC	LowLimit	High Limit	'%RPD	RPĎLimit	Qual
Benzene	'0:76	0,046	0.9259	0.01403	80:7	67.2	113	0:775	14.3	
Toluene	0.76	0.046	0.9259	0.01235	80.8	62.1	116	0.764	15.9	
Ethylbenzene	0.77	0.046	0.9259	0.01590	81.4	67.9	127	4.67	14.4	
Xylenes, Total	2:3	0:093	2.778	0.02460	83.6	60:6	134	1.47	12.6	
Surr: 4-Bromofluorobenzene	0.84		0.9259		90:8	80	120	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits.
- RSD is greater than RSDImit
- RPD outside accepted recovery limits

- В
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit? ND
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Analyte detected in the associated Method Blank

Page 3 of 10

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1305C07** 

21-Jun-13.

Client:

Safety & Environmental Solutions

Project:

Holly Mimosa Gathering Line

Sample ID mb-7826	SampT	ype: ME	BLK	Tes	tCode: V	olatiles by 8	3260B/1311			
Client ID: PBS	Batch	iD: 78:	26	F	RunNo: 1	1268				
Prep Date: 6/10/2013	Analysis D	Date: 6/	12/2013:	Ş	SeqNo: 3	18330	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	ĹowLimit.	High Limit	%RPD	RPDLimit	Qual
Benzene	ND	0:50								
2-Butanone	NÖ	10.								
Carbon Tetrachloride	ND	0.50								
Chlorobenzene	NĐ	100								
Chloroform	ŅD	:6:0								
1,4-Dichlorobenzene	ND	7.5								
1,2-Dichloroethane (EDC)	ND	0.50								
1,1-Dichloroethene	Ν̈́D	0:70								
Hexachlorobutadien é	ND	0:50								
Tetrachloroethene (PCE)	ИĎ	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Surr: 1,2-Dichloroethane-d4	0.17		0.2000		83.6	69.9	130			
Surr. 4-Bromofluorobenzene	0.20		0.2000		-101	71.2	123			
Surr: Dibromofluoromethané	0.4.7		0.2000		87:0	73.9	134			•
Surr: Toluene-d8	-0.19	_	0.2000		95:5	81.9	122			
Sample ID Ics-7826	Samp1	ype: LC	:s	Tes	tCode: V	olatiles by t	3260B/1311			
Client ID: LCSS	Batch	iD: 78	26	Ĩ	Run No. 1	1268				
Prep Date: 6/10/2013	Analysis E	Daṫe: 6/	12/2013	\$	SegNo: -3	18331	Units: mg/L			
Analyte	Result	PQE	SPK:value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID Ics-7826	Samp1	ype: LC	S	Tes	tCode: V	platiles by 8	3260B/1311			
Client ID: LCSS	Batch	Batch ID: 7826			Run No: 1	1268				
Prep Date: 6/10/2013	Analysis Date: 6/12/2013			8	SeqNo: -3	18331	Units: mg/L			
Analytę	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.40	0.20	0:4000	Ó.	99:7	51,1	171			
Chlorobenzene	0.41	0.20	0.4000	Ó	102	36.1	191			
1,1-Dichloroethene	0.40	0.20	0.4000	O.	.98:8	49.1	162			
Trichloroethene (TCE)	0.38	0.20	0.4000	0	95.8	41.2.	166			
Surr: 1,2-Dichloroethane-d4	0.18		0.2000		88.7	69:9	130			
Surr: 4-Bromofluorobenzene	0.19		0:2000		93/1	71.2	123			
Surr: Dibromofluoromethane	0.18		0.2000		492:2	73.9	134			
Surr: Toluene-d8	:0.,1.9		0.2000		95.6	81.9	122			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits-
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank-
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limits
- P. Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **1305C07** 

21-Jun-13

Client: Safety & Environmental Solutions
Project: Holly Mimosa Gathering Line

Sample ID mb-8000	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8270Ć TČLP		<u> </u>	<u> </u>
Client ID: PBS.	Batch	iD: 80	00	Ė	RunNo: 1	1423				
Prep Date: 6/19/2013	Analysis D	ate: 6/	19/2013	5	SegNo: 3	22957	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	,Low Ľimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenal	ND	200								
3+4-Methylphenol	ND	200								
Phenol	NĎ	200								
2,4-Dinitrotoluene	NĎ	0.13								
Hexachlorobenzene	ИĎ	0.13								
Hexachlorobutadiene	ИĎ	0.50								
Hexachioroethane	ND	3.0								
Nitrobenzene	ŇĎ	2.0								
Pentachlorophenol	ND	100								
Pyridine	ND	5.0								
2,4,5-Trichlorophenol	ND)	400								
2,4,6-Trichlorophenol	ND.	2.0								
Cresols, Total	ŃĎ	200								
Surr: 2,4,6-Tribromophenol	0.18		0.2000		91.5	18:7	148			
Surr: 2-Fluorobiphenyl	0:07.8		0.1000		7.8:3	53.8	117			
Surr: 2-Fluorophenol	10:12		0,2000		58.7	10.5	106			
Surr: 4-Terphenyl-d14	0:083		0.1000		83.4	43.8	108			
Surr: Nitrobenzene-d5	0.084		0.1000		84.2	36.7	128			
Surr: Phenol-d5	0:096		0.2000		47.8	18	70.1			

Sample ID Ics-8000	SampT	ype:. LC	S	Test	Code: El	PA Method	8270C TCLP:			
Client ID: LCSS	Batch	1 ID: 800	10	Ŗ	lun No. 1	1423				
Prep Date: 6/19/2013	Analysis D	)aţe': 6/	19/2013)	Ş	eqNo: 3	22958	Units: mg/L			
Analyte	Result	PQL	SPK'value	SPK Ref Val	%REC	LowLimit	High Limit	%RPD	RPDLimit	Qual
2-Methylphenol	0.071	0:010	0.1000	0:	7.1:5	32.	109			
3+4-Methylphenol	0.21	0:010	0.2000	0.	103	36:2	121			
2,4-Dinitrotoluene	0.11	0.010	0:1000	0	106	40	108			
Hexachlorobenzene	0.062	.01010	0.1000	0.	61.9	40.5	89			
Hexachlorobutadiene	0.050	0.010	0.1000	0	50.2	23	98.8			
Hexachloroethane	0.051	0:010	0.1000	0.	51.4	20:9	104			
Nitrobenzene	0:085	0.010	0.1000	Ó	84 5	38.4.	118			
Pentachlorophenol	0:021	0.010	0.1000	0.	21.3	13	106			
Pyridine	0.034	0:010	0.1000	0,	33.5	9:77	85:3			
2,4,5-Trichlorophenol	0.028	0:010	.0.1000	0.	28.0	19.6	118			
2,4,6-Trichlorophenol	0.022	0.010	0.1000	0	21.5	15.6	1,17			
Cresols, Total	0.28	0.010	0.3000	0:	92.5	35.6	116			
Surr: 2,4,6-Tribromophenol	0.072		0.2000		35.8	18.7	148			
Surr: 2-Fluorobipheny!	0.067		:0.1000		66.6	53.8	117			
Surr: 2-Fluorophenol	0.048		0.2000		23:9	10:5	106			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit-
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#:

1305C07

21-Jun-13

Client:

Safety & Environmental Solutions

Project:

Holly Mimosa Gathering Line

Sample ID Ics-8000	Samp]	SampType: LCS			icode: E	PA Method	8270C TCLP			
Client ID: LCSS	Batcl	Batch ID: 8000			RunNo: 1	1423				
Prep Date: 6/19/2013	Analysis E	oate: 6/	19/2013	.8	eqNo: 3	22958	Units: mg/L			
Analyte	Result	PQL,	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual.
Surr: 4-Terphenyl-d14	0.079		0.1000		79:3	43.8	108			
Surr: Nitrobenzene-d5	0.084		0.1000		:83:7	36.7	128			
Surr: Phenol-d5	0.073		0.2000		36.3	18 <sup>.</sup>	70:1			

Sample ID 1305C07-001Ams	Samp	ype: MS	*	Tes	tCõde: E	PA Method	8270C:TCLP			
Client ID: Stock Pile C-2		h ID: 800		Ę	Růň No: 1	1423				
Prep Date: 6/19/2013	Analysis [	Date: 6/1	19/2013	8	SeqNo: 3	22967	.Únits: mg/L			
Analyte	Result	POL	SPK value	SPK-Ref Val	%REC	LowLimit.	High Limit	%RPD	RŖĎLimit	Qual
2-Methylphenol	0:076	0:010	0.1000	0	75.7	43.9	95.3			Н
3+4-Methylphenol	0.23	0,010	0.2000	0	1,15	43.9	1,14			SH
2,4-Dinitrotoluene	0.10	.0,0104	0.1000	0	101	50.3	107			Н
Hexachlorobenzene	0.065	'0.010°	0.1000	Ö	64.7	47.9	89.7			H
·lexachlorobutadiene	0.055	0.010	0.1000	Ó.	54.9	26.7	93			Ĥ
dexachloroethane	0.060	0.010	0.1000	0,	59.6	29.8	97.9			Н
Nitrobenzene	0.076	0.010	0.1000	0	75.6	42:7	115			Н
<sup>D</sup> entachlorophenol	0.059	0.010	0.1000	0,	59.3	12:4	108			Ĥ
Pyridine Pyridine	0.046	0.010	0.1000	Ø.	46.4	7.85;	93.6			Н
2,4,5-Trichlorophenol	0.07.0	0.010	0.1000	0-	69.9	18.1	119			Н
2,4,6-Trichloröphenol	0.073	0.010	0.1000	O.	72.7	10:4	123			Н
Cresols, Total	0.31	0.010	.0.3000	0	102	45:5:	107			Н
Surr: 2,4,6-Tribromophenol	0:45		0.2000		76.0	18:7°	148			Н
Surr: 2-Fluorobiphenyl	0.065		0.1000		64.8	53,8	1:17			н
Surr: 2-Fluorophenol	0.12		0.2000		58.6	10.5	106			Н
Surr: 4-Terphenyl-d14	0.075		0.1000		75.0	43.8	108			Н
Surr: Nitrobenzene-d5	0.073		0.1000		73:1	36.7	128			Ĥ
Surr: Phenol-d5	0:092		0.2000		46:0	18:	7.0:1			н

Sample ID 1305C07-001Ams	d SampT	ype∷ <b>M</b> S	ŖĎ	TestCode: EPA Method 8270C TCLP						
Client ID: Stock Pile C-2	Batch	i ID: <b>80</b> 0	0 <b>0</b>	F	Run No: 4					
Prep Date: 6/19/2013	Analysis E	Date: 6/	19/201.3	8	SeqÑo: 3	22968	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK-Ref Val	%REC	LówLimit:	High Limit	%RPD	RPDLimit	Qual
2-Methylphenol	0.075	0,010	0.1000	0	74.8	43 <sub>1</sub> 9	95*3	1,17	29.9·	H
3+4-Methylphenol	0:23	0.010:	0.2000	Ö+	116	43:9	114	0:788	29.9	SH
2,4-Dinitrotoluene	0.098	0.010	0.1000	0,	98.2	50.3	107	3.15	33.1	Н
lexachlorobenzene	0.065	0:010	0.1000	Ó.	64.7	47.9	89.7	Ō	28.6	Н
lexachlorobutadiene	0.054	0:010:	0.1000	0.	54.2	26:7°	93	1.43	27.9	H
Hexachloroethane	0:057.	0.010	0.1000	0:	₹56.9	29:8	97:19	4:77	17.8	Н
Nitrobenzene	0:084	0.010	0.1000	0.	84.3	42,7	1,15	10.9	24.5	Н

#### Qualifiers::

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank-
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#:

1305C07

21-Jun-13

Client:

Safety & Environmental Solutions

Project:

Holly Mimosa Gathering Line

Sample ID 1305C07-001Am Client ID: Stock Pile C-2	, , 21				tCode: El RunNo: 1		8270C TCLP	<u>-</u> -		
Prep Date: 6/19/2013	Analysis [	Date: 6/	19/2013	5	SeqNo: 3	22968	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref. Val	%REC	LowLimit	High Limit	%RPD	RPDLimit	Qual
Pentachlorophenol	0.064	0.010	0.1000	0.	63.6	12.4.	108	6.99	27.2	Н
Pyridine	0.044	0.010	0.1000	0.	44.2	7:85	93.6	4.77	47.7	Н
2,4,5-Trichlorophenol	0.070	0:010	0.1000	0	69.7	18.1	1.19	0.286	32	Ĥ
2,4,6-Trichlorophenol	0.073	0)010	0.1000	0	73.0	10.4	123	0.522	25.4	н
Cresols, Total	0.31	0.010	0.3000	0,	102	45.5	107	0.307	29.9	Н
Surr: 2,4,6-Tribromophenol	0.15		0.2000		75.4	1,8.7	148	0	O	Н
Surr: 2-Fluorobiphenyl	0.066		.0.1.000		65.7	53.8	117	0	0	Н
Surr: 2-Fluorophenol	0.10		0.2000		51.6	10:5	106	0	Ó	Н
Surr: 4-Terphenyl-d14	0.072		0.1000		72.4	43.8	108	0	0	Н
Surr: Nitrobenzene-d5	0.083		0.1000		82.8	36.7	128	0	0	Н
Surr: Phenol-d5	0.087		0.2000		43:5	18	70.1	0	0	Н

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#:

1305C07

21-Jun-13.

Client:

Safety & Environmental Solutions

Project:

Holly Mimosa Gathering Line

Result

Sample ID MB-7994

PRIM

SampType: MBLK

TestCode: MERCURY, TCLP

Client ID:

Batch ID: 7994

Rún No: 11404

Prep Date: 6/18/2013

Analysis Date: 6/19/2013 POL

SegNo: 322407

SPK value SPK Ref Val %REC Low\_Limit

Units: mg/L High Limit

%RPD **RPDLimit** Qual

Analyte Mercury

0.020 ND

Sample ID LCS-7994

SampType: LCS

TestCode: MERCURY, TCLP

Client ID: LCSW

Batch ID: 7994

RunNo: 11404;

Prep Date: 6/18/2013

Units: mg/L

Analysis Date: 6/19/2013

SegNo. 322408

**High Limit** %RPD **RPDLimit** Qual

Analyte Mercury

SPK value, SPK Ref-Val-

%REC LowLimit

0.020 0.005000

Sample ID 1306593-001'AMS

Sample ID 1306593-001AMSD

SampType : MS

TestGode: MERCURY, TCLP

Client ID: BatchQC

Client ID: BatchQC

Batch ID: 7994

RunNo: 11404.

Prep Date: 6/18/2013

Analysis Date: 6/19/2013

SeqNo: 322414

Units: mg/L

**RPDLimit** :Quai

Analyte

SPK value SPK Ref Val Result PQL ND 0:020 0.005000

%REC LowLimit 101

**High Limit** %RPD 125

Mercury

SampType: MSD

TestCode MERCURY; TCLP

RunNo: 11404;

Prep Date: 6/18/2013

Batch ID: 7994 Analysis Date: 6/19/2013

Result

ND

SeqNo: 322415

Units: mg/L

RPDLimit-Qual

Analyte Mercury

POL SPK value SPK Ref-Val 0.020 0.005000

%REC LowLimit .98:0

HighLimit 75

75

%RPD

20

Qualifiers: Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit. RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank-Ĥ Holding times for preparation or analysis exceeded

Sample pH greater than 2 for VOA and TOC only.

Not Detected at the Reporting Limit: ND

Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1305C07

21-Jun-13

Client:

Safety & Environmental Solutions

Project:

Holly.Mimosa Gathering Line

Sample ID MB-8003	SampT	ype: ME	BLK	Tes	Code: El	PA Method	6010B: TCLF	Metals		
Client ID: PBW	Baťch	1D: <b>80</b>	03	F	un Ño: 1	1415 <sup>-</sup>				
Prep Date: 6/19/2013	Analysis E	oate: 6/	19/2013:	:8	eqNo: 3	22624	Units: mg/L			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LówLimit	High Limit	%RPD	RPDĻimit	Qûal
Barium	ND	100	•							
Cadmium	ND	1.0								
Chromium	ŃĎ	5.0								
Lead	ND	5.0								
Silver	ND	5.0								

Sample ID LCS-8003	Sampī	ype: LC	Ŝ,	Tes						
Client ID: LCSW	Batch	iD: <b>80</b> 0	03	F	RunÑo: 1	1415				
Prep Date: 6/19/2013	Analysis: D	até: 6/	19/2013	8	SeqNo: .3	22625	⊍nits⊱ mg/Ļ			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit;	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	100	0.5000	Ó:	98.7	80-	120			
Cadmium	NĎ	1.0	0.5000	0;	102	:80	120			
Chromium	άЙ	(5:0	0.5000	0	97:7	80	1.20			
Lead	Ν̈́D	5:0	0.5000	Ó٠	95.9	80	120			
Silver	ND	5:0-	0.1000	٥٠	109	80	120			

Sample ID 1306273-001 AM S	SampT	ype:MS	3:	Tes	Code: E	PA Method	6010B: TCL	P-Metals		
Client ID: BatchQC	Batch	ID: 80	03	F	lunÑo: 1	1415				
Prep Date: 6/19/2013	Analysis D	ate: 6/	19/2013	8	SeqNo: 3	22631	Units mg/L			
Analyte	Result	PQL.	SPK value	SPK Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	:5:0	0.5000	Ó,	93:3	75	125			

Sample ID '	1306273-001 AM SI	D SampTy	pe: MS	SD.	Test	tCode: <b>E</b> l	PA Method	6010B:# TCL	Metals		
Client ID:	BatchQC	Batch	ID: 80	03	R	lunÑo: 1	1415:				
Prep Date:	6/19/2013	Analysis Da	ate: 6/	19/2013	S	SeqNo: 3	22632	Units:: mg/L			
Analyte		Result	PQL	SPK'value	SPK Ref Val.	%REC	LowLimit	High Limit	%RPD	RPDLimit	Qual
Lead		ND	5.0	0.5000	Q:	92:2	.75 <sup>,</sup>	-125	0	20	

Sample ID MB-8003	SampType: MBLK	TestCode: EPA Method 6010B; TCLP Metals
Client ID: PBW	Batch ID: 8003	RunNo: 11415;
Prep Date: 6/19/2013	Analysis Date: 6/19/2013	SegNo: 322644 Units: mg/L
Analyte	Result PQL SPK value	SPK Ref Val. %REC LowLimit HighLimit '%RPD RPDLimit Qual
Arsenic	ND 5:0	

Selenium ND 1:0

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits.
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P. Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **1305C07** 

21-Jun-13

Client:

Safety & Environmental Solutions

Project:

Holly Mimosa Gathering Line

Sample ID LCS-8003	SampT	SampType: LCS			TestCode: EPA Method 6010B: TCLP Metals							
Client ID: LCSW	Batch	n ID: 80	03	·F	RunNo: 1	1415 <sup>-</sup>						
Prep Date: 6/19/2013	Analysis D	oate: 6/	19/2013	.8	SeqNo: 13	22645	Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	L'owLimit	HighLimit	%RPD	RPDLimit	Qual,		
Arsenic	ND	5.0	0.5000	0.	113	80`	120					
Selenium	ND	1.0	0.5000	Ó۶	95:2	80	120					

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit:

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE. Albuquerque, NM 87105. TEL: 505-345-3975 FAX: 505-345-410;

Website: www.hallenvironmental.com

## Sample Log-In Check List

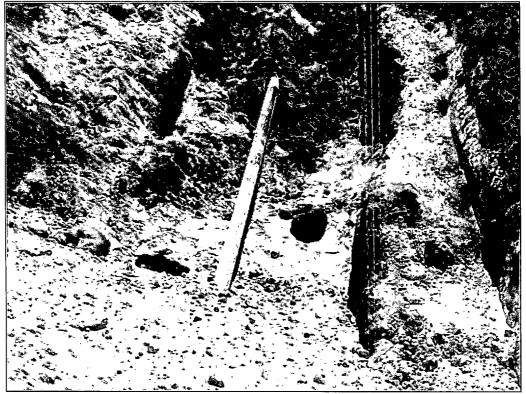
Safety Env Solutions Work Order Number:: 1305C071 RcptNo: 1 Client Name: Received by/date: 5/31/2013 9:55:00 AM Logged By: Ashley Gallegos Completed By: Ashley Gallegos 5/31/2013 12:12:46 PM Reviewed By: Chain of Custody No 🗀 Not Present Yes 🗀 1 Custody seals intact on sample bottles? No 🗌 Not Present Yes 🗹 2. Is Chain of Custody complete? <u>FedEx</u> 3 How was the sample delivered? Log In No 🗆 NA 🗆 :4. Was an attempt made to cool the samples? No 🗀 NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C. No 🗆 Yes 🗸 6. Sample(s) in proper container(s)? No. 🔲 7. Sufficient sample volume for indicated test(s)? Yes 🗸 Yes 🔽 No 🗌 8. Are samples (except VOA and ONG) properly preserved? NA 🗔 No 🗸 9. Was preservative added to bottles? Yes  $\square$ No 🗆 No VOA Vials, 🗹 Yes 10. VOA vials have zero headspace? No. 🔽 Yes 11. Were any sample containers received broken? # of preserved bottles checked for pH: Yes 🗹 No. 🗀 12. Does paperwork match bottle labels? (<2,or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No · Yes: 🗹 13 Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🔽 14. Is it clear what analyses were requested? Checked by: No 🗆 Yes 🗹 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗹 Yes 🗔 No: 🗔 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Vià: eMail Phone Fax in Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date 5.1 Good Yes

Page 1 of 1

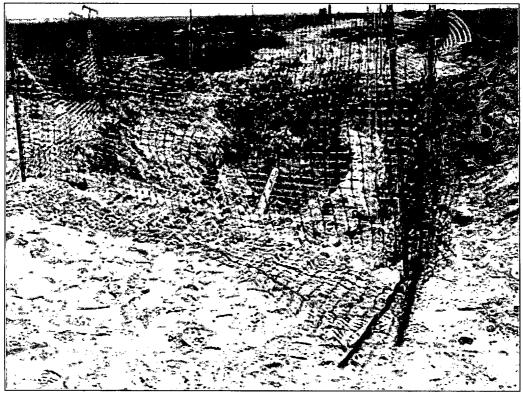
Chain-of-Custody Record					Turn-Around Time:						_			_				. res. to di				
Client Sofory + Environmental				I roundature.	Standard □ Rush  Project Name:   HOII			HALL ENVIRONMENTAL ANALYSIS LABORATORY														
Solution					- ADITY			_	www.hallenvironmental.com													
Mailing Address: 703 & Cliwton					Mimosia Charleving Line				4901 Hawkins NE - Albuquerque, NM 87109													
		(40p	bs	N.M 88240	Project #:	j 15	0 - 0 - 0		Të	el. 50	)5-3 <sup>2</sup>	15-39	975	F	ax	505-	345	410	7			
Phone #: 575 = 397 - 0570				057.0	1/06-12-009				Analysis Request													
email or Fax#::					Project Manager:			10	( <del>-</del>	ဂ္ဂ	1	1 1			(4)		i 1			- 1		l
QA/QC	Package: dard	*."	¹⊟: Le	evel 4 (Full Validation)	All	en, B	y b	\$ (8021)	TPH (Gas only)	RO / MI		*	SIMS)	, 	PO4,S	PCB's						
Accredi	tation	□ Othe		<del>(                                    </del>		5058 J	ing ura	TMB	H <sub>T</sub>	O / DE	8.1)	4.1)			3,NO <sub>2</sub> ,	/ 8082		()				î
	(Type)							BE +	Щ. Н	(GR	141	22	ō	als	ON,	des		00			-	ō  ≿
Date	Time	Matrix	Sa	ample Request ID		Preservative Type		BTEX + MTE	BTEX + MTBE	TPH 8015B (GRO / DRO / WRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8340 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB	8260B (VOA)	8270 (Semi-VOA)	BTEX			Air Bubbles (Y or N)
1/27	1515	5	5)	ock pile C-2	2	Tei	$-\infty$												X			Γ
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

# Appendix B Site Photographs



Excavation



Excavation facing southeast



Impacted area around excavation



Impacted area in roadway



Photo #1 – East facing West

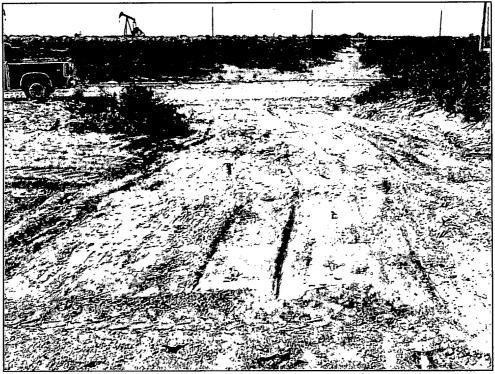


Photo #2 - Facing North showing dirt pile removal from location

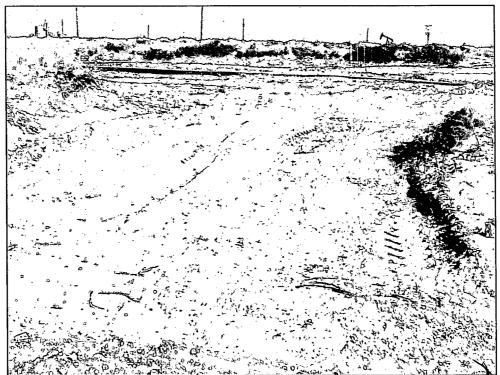


Photo #3 - Facing South

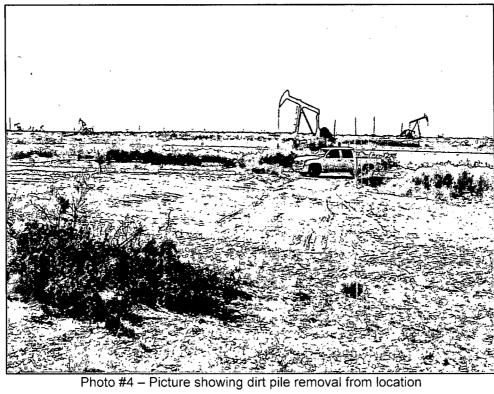




Photo #5 - Facing West



Photo #6 – Facing East



Photo # 7 - Facing South

# Appendix C C-141

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505

\* Attach Additional Sheets If Necessary

## State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Form C-141 Revised August 8, 2011

Release Notifica	tion and Co	rrective A	ction						
	OPERAT	OR		Report Final Repo					
Name of Company Holly Energy Partners	Contact	Jeff Stubl	olefield						
Address 1602 W. Main, Artesia, NM 88210		Telephone No. 972.322.5782							
Facility Name Mimosa Gathering	Facility Type	Crude Oi	l Gathering Line						
Surface Owner State Land Office Mineral Ow	mer	API No.							
	TION OF REL	EASE							
Unit Letter Section Township Range Feet from the J 30 17S 29E	North/South Line	Feet from the	East/West Line	County Eddy					
Latitude_32.80217°N_	Longitud	de <u>104.11297</u>	<u>'°W</u>						
NATU	RE OF RELE	CASE							
Type of Release Crude Oil		Release ~12.5 bl		ecovered ~10 bbls					
Source of Release Pipeline Corrosion		our of Occurrenc		Iour of Discovery					
Was Immediate Notice Given?		4/19/2012 15:41 4/19/2012 15:41 If YES, To Whom?							
🛛 Yes 🗌 No 🖾 Not Requ		ier. 575.626.085	7: 575.748.1283						
By Whom? William Green	Date and Ho	Date and Hour 4/19/2012 @ 17:22 – message left at office number							
Was a Watercourse Reached?		ume Impacting t							
Yes 🖾 No	Not Applica	ible -	-						
Pipeline corrosion is the suspected cause of the release. Pumping so nobilized to the location. Impacted soils at the source was excavate Describe Area Affected and Cleanup Action Taken.*  Flowpath is in the Arco Road south ditch. Delineation and cleanup activities upon access approval from the State Land Office.	d and placed on plas	stic to allow repa	irs to the line.						
hereby certify that the information given above is true and complete egulations all operators are required to report and/or file certain relepublic health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and remore the environment. In addition, NMOCD acceptance of a C-141 repetederal, state, or local laws and/or regulations.	ease notifications and by the NMOCD ma rediate contamination	d perform correct rked as "Final Room that pose a threather pose a threather operator of i	tive actions for rele eport" does not relic eat to ground water, responsibility for co	ases which may endanger we the operator of liability surface water, human health impliance with any other					
A = A		OIL CON	SERVATION	NOISION					
Signature:  Printed Vamo William D. Green, P.O.	Approved by I	Environmental S	pecialist:						
Fitle: Environmental Specialist	Approval Date		Expiration D	late:					
E-nuil Address: Bill.Green@hollycnergy.com	Conditions of		1 iszpiradon L						
Date: 4/19/2012 Phone: 575 748 8968		. •		Attached					