

**REVIEWED**

*By Kellie Jones at 10:39 am, Jan 14, 2016*

**APPROVED**

*By Kellie Jones at 10:39 am, Jan 14, 2016*

**Holly Energy Partners  
Maljamar Park Lact 584  
Section 8, Township 17S, Range 32E  
Lea County, New Mexico**

**Delineation-Closure Report**

**RP-3998  
January 8, 2016**



Prepared for:

***Holly Energy Partners  
PO Box 250  
Artesia, NM 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
Keith Gerace	Holly Energy Partners	575-748-4083	Keith.gerace@hollyenergy.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

## II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as SESI., was contacted by Holly Energy Partners to conduct a site assessment of the Maljamar Park Lact 584 situated in Section 5, T17S, R32E, Lea County. According to the C-141 the cause of impact was outlined as follows: the HEP I & E technicians traced the cause of overflow, and release of approximately 25 bbls. of fluid from the tanks to equipment failure. A relay that should have automatically shut down the truck unloading LACT to the tanks at high levels failed to function properly causing the tank overflow. The fluid was retained inside the bermed area. Holly Energy Partners took proactive measures by immediately scraping up all visual signs of impacted soil and stock piling on plastic for removal. The relay switch was replaced, tested, and the station was put back into service. The NMOCD was notified of this incident on October 26, 2015 and was assigned as **RP-3998**.

## III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. According to the topography map for Lea County the depth to ground water for Section 5, Township 17S, Range 32E is approximately 121 bgs. Further research of the New Mexico Office of the State Engineer records indicate the average depth to groundwater for the area to be 153' bgs. Thereby, posing no eminent threat or danger to life forms in the area (Appendix B).

## IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (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, ethyl benzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 1000 mg/kg (PPM) is also required.

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	<b>X</b>
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	<b>X</b>
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	<b>X</b>
RANKING SCORE (TOTAL POINTS)			<b>0</b>

## V. Work Performed

On November 30, 2015, SESI personnel visited the site to conduct an initial site assessment, sample excavated area, as well as the stock piled soils.

Juno Mapping of the spill area was conducted, siting the GPS coordinates of each sample point. Three (3) sample positions were established, in order to confirm extent of impact at 6" bgs (Appendix C). The soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl<sup>-</sup>) (Method SM 4500Cl<sup>-</sup>B). The composite soil samples were analyzed for TCLP as well as RCI. The results of the analysis are presented in the following table:

Sample Date 11/30/15	pH	TCLP Semi volatile	TCLP Volatile	TCLP Metals	TCLP Mercury	BTEX 8021B	Chloride (mg/kg) SM4500Cl- B	TPH GRO	TPH DRO
Depth									
C- Spoils Pile	8.72	<.025	<.250	Barium 1.3	.0002	<0.300			
SP-1 Surface Bottom						<0.300		<50.0	491
SP-1 6" Bottom						<0.300		<50.0	<50.0
SP-2 Surface Bottom						<0.300		<50.0	918
SP-2 6" Bottom						<0.300		<10.0	10.4
SP-3 Surface Bottom						<0.300		<10.0	<10.0
SP-3 6" Bottom						<0.300		<10.0	<10.0

## VI. Action Plan

On December 18, 2016, and due to the aforementioned results: SESI notified R360, an NMOCD approved facility of said results and obtained approval for disposal of impacted soil.

On January 07, 2016 a total of Twenty Four (24) yards of impacted soils are disposed of and the site is restored to grade with like materials to that removed according to NMOCD guidelines. SESI on behalf of Holly Energy Partners respectfully requests closure of the regulatory file for the environmental incident related to this site.

## VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – Photographs

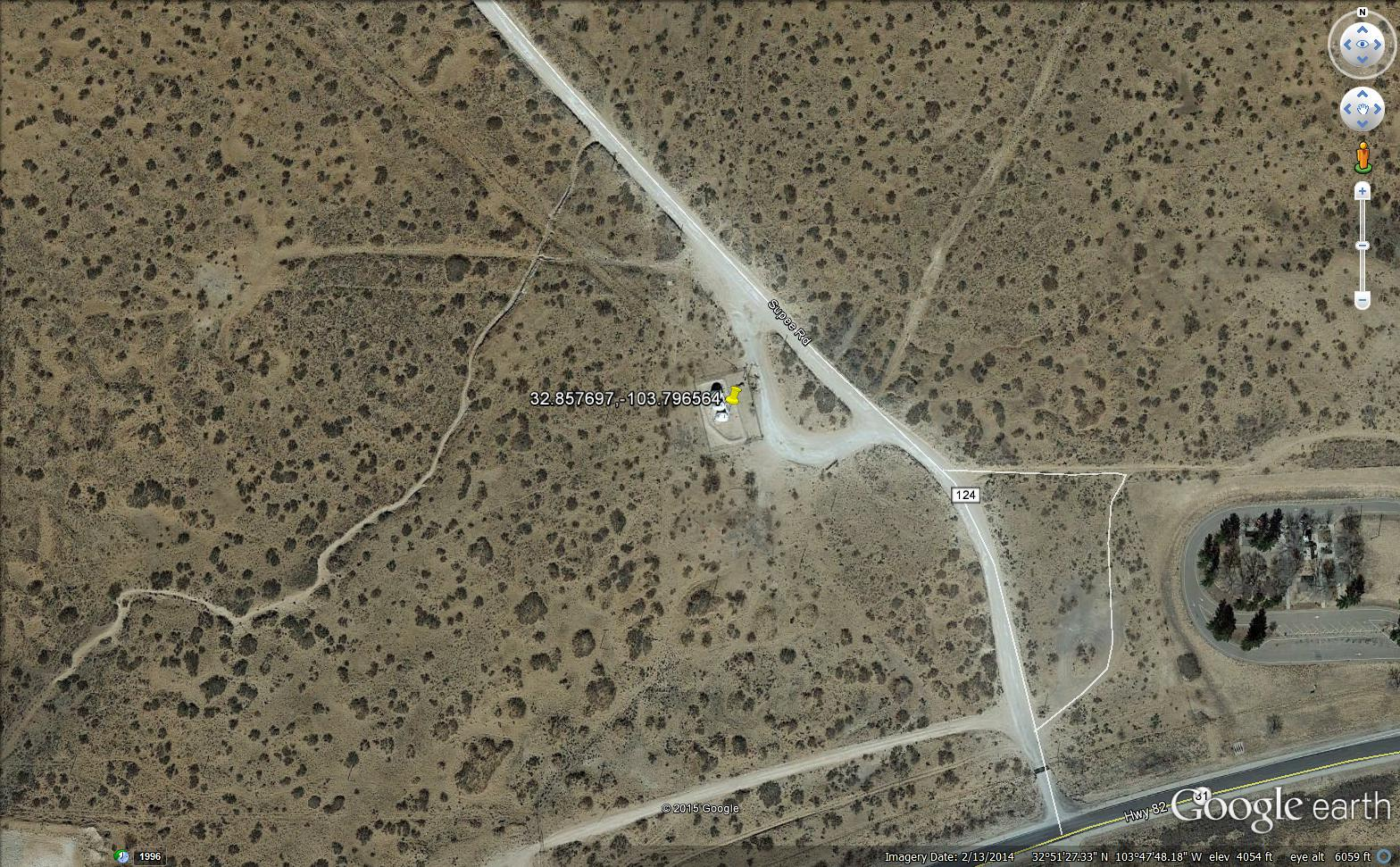
Appendix B – Groundwater

Appendix C – Analytical Results

## **Figure 1**

### **Vicinity Map**





© 2015 Google

1996

Imagery Date: 2/13/2014 32°51'27.33" N 103°47'48.18" W elev 4054 ft eye alt 6059 ft

Google earth



## **Figure 2**

### **Site Plan**





Sample Point 3-Bottom

Tank 6

Sample Point 2-Bottom

Tank 7

Tank 8

Spill Area

Sample Point 1

Holly Energy  
Partners  
Malajamr Park Lact  
584

© 2015 Google

Google earth



## **Appendix A**

## **Photographs**



Holly Energy  
Maljamar Park Lact 584  
RP-3998



Sign marking location 11-30-15



Southwest corner



Looking North



Stockpile at leak source for disposal



West side of tanks



Southeast corner of stockpile



**Holly Energy  
Maljamar Park Lact 584  
RP-3998**



Hand removal West side of tanks



West side after removal of impact



Looking North at completion



Leak source area at completion



Southeast corner at completion



Restored berm at completion



## **Appendix B Groundwater**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">L 03980</a>	L	LE		2	2	2	01	17S	32E	620466	3637594*	270	200	70
<a href="#">L 03980 S</a>	L	LE		4	4	4	02	17S	32E	618870	3636170*	255	179	76
<a href="#">L 03980 S2</a>	L	LE		3	2	3	01	17S	32E	619470	3636581*	225	175	50
<a href="#">L 04019</a>	L	LE		4	3	4	02	17S	32E	618468	3636166*	182		
<a href="#">L 04020</a>	L	LE		3	3	4	02	17S	32E	618268	3636166*	200		
<a href="#">L 04021</a>	R	L	LE	3	4	4	02	17S	32E	618670	3636170*	190		
<a href="#">L 04021 POD3</a>	L	LE			3	4	03	17S	32E	616761	3636252*	247		
<a href="#">L 04021 S</a>	L	LE		2	4	4	03	17S	32E	617262	3636354*	260		
<a href="#">L 13047 POD1</a>	L	LE					11	17S	32E	618187	3635254*	140		
<a href="#">L 13050 POD1</a>	L	LE		2	2	1	10	17S	32E	616463	3635945*	156	132	24
<a href="#">RA 08855</a>		LE		4	1	1	10	17S	32E	616061	3635742*	158		
<a href="#">RA 09505</a>		LE		2	2	1	10	17S	32E	616462	3635944	147		
<a href="#">RA 09505 S</a>		LE		2	2	1	10	17S	32E	616463	3635945*	144		
<a href="#">RA 10175</a>		LE			2	1	28	17S	32E	614814	3631005*	158		
<a href="#">RA 11684 POD1</a>		LE		1	1	4	11	17S	32E	618216	3635124	275		
<a href="#">RA 11684 POD2</a>		LE		1	1	4	11	17S	32E	618313	3635248	275		
<a href="#">RA 11684 POD3</a>		LE		3	3	1	11	17S	32E	618262	3635371	275		
<a href="#">RA 11684 POD4</a>		LE		1	3	2	11	17S	32E	618334	3635521	275		
<a href="#">RA 11684 POD5</a>		LE		3	1	4	11	17S	32E	618353	3635047	275		
<a href="#">RA 11734 POD1</a>		LE		2	2	1	10	17S	32E	616556	3635929	165		
<a href="#">RA 11911 POD1</a>		LE		1	3	1	24	17S	32E	619192	3632296	35		
<a href="#">RA 12020 POD1</a>		LE		2	2	1	28	17S	32E	614828	3630954	120	81	39
<a href="#">RA 12042 POD1</a>		LE		2	2	1	28	17S	32E	614891	3631181	400		

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Average Depth to Water: 153 feet

Minimum Depth: 81 feet

Maximum Depth: 200 feet

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**Record Count:** 23

**Basin/County Search:**

**County:** Lea

**PLSS Search:**

**Township:** 17S      **Range:** 32E



## **Appendix C Analytical Results**



December 15, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: MALJAMAR PARK STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/01/15 10:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



**Analytical Results For:**

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-1 SPOILS PILE	H503131-01	Soil	30-Nov-15 11:30	01-Dec-15 10:47
SP-1 SURFACE BOTTOM	H503131-02	Soil	30-Nov-15 11:45	01-Dec-15 10:47
SP-1 6" BOTTOM	H503131-03	Soil	30-Nov-15 11:45	01-Dec-15 10:47
SP-2 SURFACE BOTTOM	H503131-04	Soil	30-Nov-15 12:00	01-Dec-15 10:47
SP-2 6" BOTTOM	H503131-05	Soil	30-Nov-15 12:00	01-Dec-15 10:47
SP-3 SURFACE BOTTOM	H503131-06	Soil	30-Nov-15 12:20	01-Dec-15 10:47
SP-3 6" BOTTOM	H503131-07	Soil	30-Nov-15 12:20	01-Dec-15 10:47

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Project: MALJAMAR PARK STATION  
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Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### C-1 SPOILS PILE H503131-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Ignitability	> 140			°F	1	5121007	AP	09-Dec-15	ASTM D 93-80	
pH*	8.72		0.100	pH Units	1	5120117	AP	03-Dec-15	9045	
Reactive Cyanide	<0.100		0.100	mg/kg	1	5121406	AP	14-Dec-15	9010	
Reactive Sulfide	0.0200		0.0100	mg/kg	1	5121406	AP	14-Dec-15	9030	

#### TCLP Semivolatile Organic Compounds by GCMS

Pyridine	<0.025		0.025	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
1,4-Dichlorobenzene	<0.025		0.025	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
2-Methylphenol	<0.005		0.005	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
4-Methylphenol	<0.005		0.005	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
Hexachloroethane	<0.005		0.005	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
Nitrobenzene	<0.005		0.005	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
Hexachlorobutadiene	<0.005		0.005	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
2,4,6-Trichlorophenol	<0.005		0.005	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
2,4,5-Trichlorophenol	<0.005		0.005	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
2,4-Dinitrotoluene	<0.005		0.005	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
Hexachlorobenzene	<0.025		0.025	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
Pentachlorophenol	<0.025		0.025	mg/L	5	5120303	MS	09-Dec-15	1311/8270C	
Surrogate: 2-Fluorophenol			59.3 %	7.74-110		5120303	MS	09-Dec-15	1311/8270C	
Surrogate: Phenol-d5			49.6 %	14.8-131		5120303	MS	09-Dec-15	1311/8270C	
Surrogate: Nitrobenzene-d5			54.1 %	10.7-133		5120303	MS	09-Dec-15	1311/8270C	
Surrogate: 2-Fluorobiphenyl			53.6 %	12.5-111		5120303	MS	09-Dec-15	1311/8270C	
Surrogate: 2,4,6-Tribromophenol			72.9 %	17.3-143		5120303	MS	09-Dec-15	1311/8270C	
Surrogate: Terphenyl-d14			57.7 %	15.8-160		5120303	MS	09-Dec-15	1311/8270C	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### C-1 SPOILS PILE

#### H503131-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Vinyl chloride	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
2-Butanone	<0.250		0.250	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
1,1-Dichloroethene	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
Chloroform	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
Carbon tetrachloride	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
Benzene	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
1,2-Dichloroethane	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
Trichloroethene	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
Tetrachloroethene	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
Chlorobenzene	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
1,4 Dichlorobenzene	<0.050		0.050	mg/L	100	5120402	MS	04-Dec-15	1311/8260B	
Surrogate: Dibromofluoromethane			102 %		92.9-119	5120402	MS	04-Dec-15	1311/8260B	
Surrogate: Toluene-d8			103 %		86-108	5120402	MS	04-Dec-15	1311/8260B	
Surrogate: 4-Bromofluorobenzene			99.5 %		81.7-121	5120402	MS	04-Dec-15	1311/8260B	

#### Green Analytical Laboratories

#### TCLP Metals by ICP (1311)

Arsenic	<0.100		0.100	mg/L	1	B512084	JGS	07-Dec-15	EPA200.7/60 10 B	
<b>Barium</b>	<b>1.30</b>		0.010	mg/L	1	B512084	JGS	07-Dec-15	EPA200.7/60 10 B	
Cadmium	<0.050		0.050	mg/L	1	B512084	JGS	07-Dec-15	EPA200.7/60 10 B	
Chromium	<0.050		0.050	mg/L	1	B512084	JGS	07-Dec-15	EPA200.7/60 10 B	
Lead	<0.100		0.100	mg/L	1	B512084	JGS	07-Dec-15	EPA200.7/60 10 B	
Selenium	<0.200		0.200	mg/L	1	B512084	JGS	07-Dec-15	EPA200.7/60 10 B	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388Reported:  
15-Dec-15 14:12**C-1 SPOILS PILE****H503131-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****TCLP Metals by ICP (1311)**

Silver	<0.050		0.050	mg/L	1	B512084	JGS	07-Dec-15	EPA200.7/60 10 B	
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**TCLP Mercury by CVAA**

Mercury	0.0002		0.0002	mg/L	1	B512152	JGS	14-Dec-15	245.1	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### SP-1 SURFACE BOTTOM

#### H503131-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120301	MS	03-Dec-15	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	73.6-140		5120301	MS	03-Dec-15	8021B	

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0		50.0	mg/kg	5	5120201	MS	02-Dec-15	8015B	
<b>DRO &gt;C10-C28</b>	<b>491</b>		50.0	mg/kg	5	5120201	MS	02-Dec-15	8015B	
<i>Surrogate: 1-Chlorooctane</i>			108 %	35-147		5120201	MS	02-Dec-15	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			127 %	28-171		5120201	MS	02-Dec-15	8015B	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 Safety & Environmental Solutions  
 703 East Clinton  
 Hobbs NM, 88240

 Project: MALJAMAR PARK STATION  
 Project Number: HOL-15-009  
 Project Manager: Bob Allen  
 Fax To: (575) 393-4388

 Reported:  
 15-Dec-15 14:12

**SP-1 6" BOTTOM**
**H503131-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120301	MS	03-Dec-15	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			<i>104 %</i>	<i>73.6-140</i>		<i>5120301</i>	<i>MS</i>	<i>03-Dec-15</i>	<i>8021B</i>	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<50.0		50.0	mg/kg	5	5120201	MS	02-Dec-15	8015B	
DRO >C10-C28	<50.0		50.0	mg/kg	5	5120201	MS	02-Dec-15	8015B	
<i>Surrogate: 1-Chlorooctane</i>			<i>89.0 %</i>	<i>35-147</i>		<i>5120201</i>	<i>MS</i>	<i>02-Dec-15</i>	<i>8015B</i>	
<i>Surrogate: 1-Chlorooctadecane</i>			<i>99.9 %</i>	<i>28-171</i>		<i>5120201</i>	<i>MS</i>	<i>02-Dec-15</i>	<i>8015B</i>	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### SP-2 SURFACE BOTTOM

H503131-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120301	MS	03-Dec-15	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	73.6-140		5120301	MS	03-Dec-15	8021B	

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0		50.0	mg/kg	5	5120201	MS	02-Dec-15	8015B	
<b>DRO &gt;C10-C28</b>	<b>918</b>		50.0	mg/kg	5	5120201	MS	02-Dec-15	8015B	
<i>Surrogate: 1-Chlorooctane</i>			101 %	35-147		5120201	MS	02-Dec-15	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			120 %	28-171		5120201	MS	02-Dec-15	8015B	

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### SP-2 6" BOTTOM

H503131-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.6-140		5120301	MS	03-Dec-15	8021B	

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	5120201	MS	02-Dec-15	8015B	
DRO >C10-C28	10.4		10.0	mg/kg	1	5120201	MS	02-Dec-15	8015B	
Surrogate: 1-Chlorooctane			101 %	35-147		5120201	MS	02-Dec-15	8015B	
Surrogate: 1-Chlorooctadecane			111 %	28-171		5120201	MS	02-Dec-15	8015B	

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### SP-3 SURFACE BOTTOM

H503131-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	73.6-140		5120301	MS	03-Dec-15	8021B	

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	5120201	MS	02-Dec-15	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	5120201	MS	02-Dec-15	8015B	
Surrogate: 1-Chlorooctane			93.0 %	35-147		5120201	MS	02-Dec-15	8015B	
Surrogate: 1-Chlorooctadecane			96.7 %	28-171		5120201	MS	02-Dec-15	8015B	

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### SP-3 6" BOTTOM H503131-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120301	MS	03-Dec-15	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120301	MS	03-Dec-15	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	73.6-140		5120301	MS	03-Dec-15	8021B	

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	5120201	MS	02-Dec-15	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	5120201	MS	02-Dec-15	8015B	
<i>Surrogate: 1-Chlorooctane</i>			95.0 %	35-147		5120201	MS	02-Dec-15	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			102 %	28-171		5120201	MS	02-Dec-15	8015B	

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### Inorganic Compounds - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5120117 - General Prep - Wet Chem

##### LCS (5120117-BS1)

Prepared & Analyzed: 03-Dec-15

pH	7.14		pH Units	7.00		102	90-110			
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##### Duplicate (5120117-DUP1)

Source: H503077-01

Prepared & Analyzed: 03-Dec-15

pH	7.37	0.100	pH Units	7.32				0.681	20	
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#### Batch 5121007 - General Prep - Wet Chem

##### LCS (5121007-BS1)

Prepared & Analyzed: 15-Dec-15

Ignitability	80.0		°F	77.0		104	97.5-105			
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##### Duplicate (5121007-DUP1)

Source: H503131-01

Prepared & Analyzed: 10-Dec-15

Ignitability	> 140		°F	> 140					20	
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#### Batch 5121406 - General Prep - Wet Chem

##### Blank (5121406-BLK1)

Prepared & Analyzed: 14-Dec-15

Reactive Cyanide	ND	0.100	mg/kg							
Reactive Sulfide	ND	0.0100	mg/kg							

##### Duplicate (5121406-DUP1)

Source: H503131-01

Prepared & Analyzed: 14-Dec-15

Reactive Cyanide	ND	0.100	mg/kg	0.00					20	
Reactive Sulfide	0.0200	0.0100	mg/kg	0.0200				0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### TCLP Semivolatile Organic Compounds by GCMS - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5120303 - SW846-3510

##### Blank (5120303-BLK1)

Prepared: 03-Dec-15 Analyzed: 09-Dec-15

Pyridine	ND	0.005	mg/L							
1,4-Dichlorobenzene	ND	0.005	mg/L							
2-Methylphenol	ND	0.001	mg/L							
4-Methylphenol	ND	0.001	mg/L							
Hexachloroethane	ND	0.001	mg/L							
Nitrobenzene	ND	0.001	mg/L							
Hexachlorobutadiene	ND	0.001	mg/L							
2,4,6-Trichlorophenol	ND	0.001	mg/L							
2,4,5-Trichlorophenol	ND	0.001	mg/L							
2,4-Dinitrotoluene	ND	0.001	mg/L							
Hexachlorobenzene	ND	0.005	mg/L							
Pentachlorophenol	ND	0.005	mg/L							
Surrogate: 2-Fluorophenol	0.0133		mg/L	0.0500		26.5	7.74-110			
Surrogate: Phenol-d5	0.00758		mg/L	0.0500		15.2	14.8-131			
Surrogate: Nitrobenzene-d5	0.0215		mg/L	0.0500		42.9	10.7-133			
Surrogate: 2-Fluorobiphenyl	0.0163		mg/L	0.0500		32.6	12.5-111			
Surrogate: 2,4,6-Tribromophenol	0.0288		mg/L	0.0500		57.5	17.3-143			
Surrogate: Terphenyl-d14	0.0252		mg/L	0.0500		50.4	15.8-160			

##### LCS (5120303-BS1)

Prepared: 03-Dec-15 Analyzed: 09-Dec-15

Pyridine	0.003	0.005	mg/L	0.0100		27.7	22.6-53.3			
1,4-Dichlorobenzene	0.004	0.005	mg/L	0.0100		41.2	0-184			
2-Methylphenol	0.006	0.001	mg/L	0.0100		63.1	41-79.4			
4-Methylphenol	0.012	0.001	mg/L	0.0200		58.6	32.2-77.3			
Hexachloroethane	0.003	0.001	mg/L	0.0100		34.0	20.5-61.6			
Nitrobenzene	0.006	0.001	mg/L	0.0100		60.7	38-87.2			
Hexachlorobutadiene	0.004	0.001	mg/L	0.0100		39.9	18-63.4			
2,4,6-Trichlorophenol	0.007	0.001	mg/L	0.0100		72.1	28.6-102			
2,4,5-Trichlorophenol	0.007	0.001	mg/L	0.0100		71.5	30-104			
2,4-Dinitrotoluene	0.008	0.001	mg/L	0.0100		75.9	31.1-108			
Hexachlorobenzene	0.008	0.005	mg/L	0.0100		82.9	31.2-100			
Pentachlorophenol	0.008	0.005	mg/L	0.0100		83.9	27.4-103			

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### TCLP Semivolatile Organic Compounds by GCMS - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5120303 - SW846-3510

##### LCS (5120303-BS1)

Prepared: 03-Dec-15 Analyzed: 09-Dec-15

Surrogate: 2-Fluorophenol	0.0223		mg/L	0.0500		44.6	7.74-110			
Surrogate: Phenol-d5	0.0133		mg/L	0.0500		26.6	14.8-131			
Surrogate: Nitrobenzene-d5	0.0332		mg/L	0.0500		66.5	10.7-133			
Surrogate: 2-Fluorobiphenyl	0.0227		mg/L	0.0500		45.4	12.5-111			
Surrogate: 2,4,6-Tribromophenol	0.0428		mg/L	0.0500		85.6	17.3-143			
Surrogate: Terphenyl-d14	0.0356		mg/L	0.0500		71.2	15.8-160			

##### LCS Dup (5120303-BS1)

Prepared: 03-Dec-15 Analyzed: 09-Dec-15

Pyridine	0.002	0.005	mg/L	0.0100		17.5	22.6-53.3	45.1	30.6	BS2, QR-02
1,4-Dichlorobenzene	0.003	0.005	mg/L	0.0100		31.8	0-184	25.8	5.84	QR-02
2-Methylphenol	0.005	0.001	mg/L	0.0100		47.6	41-79.4	28.0	17.1	QR-02
4-Methylphenol	0.009	0.001	mg/L	0.0200		45.6	32.2-77.3	25.1	14.7	QR-02
Hexachloroethane	0.002	0.001	mg/L	0.0100		25.0	20.5-61.6	30.5	4.67	QR-02
Nitrobenzene	0.005	0.001	mg/L	0.0100		49.6	38-87.2	20.1	12.2	QR-02
Hexachlorobutadiene	0.003	0.001	mg/L	0.0100		28.1	18-63.4	34.7	5.33	QR-02
2,4,6-Trichlorophenol	0.006	0.001	mg/L	0.0100		57.6	28.6-102	22.4	14.1	QR-02
2,4,5-Trichlorophenol	0.006	0.001	mg/L	0.0100		56.9	30-104	22.7	8.91	QR-02
2,4-Dinitrotoluene	0.006	0.001	mg/L	0.0100		59.7	31.1-108	23.9	17	QR-02
Hexachlorobenzene	0.007	0.005	mg/L	0.0100		66.2	31.2-100	22.4	69.6	
Pentachlorophenol	0.007	0.005	mg/L	0.0100		68.2	27.4-103	20.6	49.5	
Surrogate: 2-Fluorophenol	0.0160		mg/L	0.0500		32.0	7.74-110			
Surrogate: Phenol-d5	0.0101		mg/L	0.0500		20.3	14.8-131			
Surrogate: Nitrobenzene-d5	0.0240		mg/L	0.0500		48.0	10.7-133			
Surrogate: 2-Fluorobiphenyl	0.0194		mg/L	0.0500		38.8	12.5-111			
Surrogate: 2,4,6-Tribromophenol	0.0341		mg/L	0.0500		68.1	17.3-143			
Surrogate: Terphenyl-d14	0.0284		mg/L	0.0500		56.9	15.8-160			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5120301 - Volatiles

##### Blank (5120301-BLK1)

Prepared & Analyzed: 03-Dec-15

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	73.6-140			

##### LCS (5120301-BS1)

Prepared & Analyzed: 03-Dec-15

Benzene	1.71	0.050	mg/kg	2.00		85.5	82.6-122			
Toluene	1.71	0.050	mg/kg	2.00		85.5	72.9-122			
Ethylbenzene	1.77	0.050	mg/kg	2.00		88.4	65.4-131			
Total Xylenes	5.34	0.150	mg/kg	6.00		89.0	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	73.6-140			

##### LCS Dup (5120301-BSD1)

Prepared & Analyzed: 03-Dec-15

Benzene	1.70	0.050	mg/kg	2.00		84.8	82.6-122	0.862	8.23	
Toluene	1.70	0.050	mg/kg	2.00		84.8	72.9-122	0.866	8.71	
Ethylbenzene	1.75	0.050	mg/kg	2.00		87.3	65.4-131	1.29	9.46	
Total Xylenes	5.28	0.150	mg/kg	6.00		88.0	73.8-125	1.20	8.66	
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	73.6-140			

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### Petroleum Hydrocarbons by GC FID - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5120201 - General Prep - Organics

##### Blank (5120201-BLK1)

Prepared & Analyzed: 02-Dec-15

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	35-147			
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	28-171			

##### LCS (5120201-BS1)

Prepared & Analyzed: 02-Dec-15

GRO C6-C10	192	10.0	mg/kg	200		96.1	76.7-115			
DRO >C10-C28	185	10.0	mg/kg	200		92.6	78.3-122			
Total TPH C6-C28	377	10.0	mg/kg	400		94.3	79.8-117			
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	35-147			
Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0		105	28-171			

##### LCS Dup (5120201-BSD1)

Prepared & Analyzed: 02-Dec-15

GRO C6-C10	192	10.0	mg/kg	200		96.2	76.7-115	0.104	9.42	
DRO >C10-C28	187	10.0	mg/kg	200		93.4	78.3-122	0.860	13.2	
Total TPH C6-C28	379	10.0	mg/kg	400		94.8	79.8-117	0.476	10.7	
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	35-147			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	28-171			

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5120402 - Volatiles

##### Blank (5120402-BLK1)

Prepared & Analyzed: 04-Dec-15

Vinyl chloride	ND	0.0005	mg/L							
2-Butanone	ND	0.002	mg/L							
1,1-Dichloroethene	ND	0.0005	mg/L							
Chloroform	ND	0.0005	mg/L							
Carbon tetrachloride	ND	0.0005	mg/L							
Benzene	ND	0.0005	mg/L							
1,2-Dichloroethane	ND	0.0005	mg/L							
Trichloroethene	ND	0.0005	mg/L							
Tetrachloroethene	ND	0.0005	mg/L							
Chlorobenzene	ND	0.0005	mg/L							
1,4 Dichlorobenzene	ND	0.0005	mg/L							
Surrogate: Dibromofluoromethane	0.00972		mg/L	0.0100		97.2	92.9-119			
Surrogate: Toluene-d8	0.0105		mg/L	0.0100		105	86-108			
Surrogate: 4-Bromofluorobenzene	0.00988		mg/L	0.0100		98.8	81.7-121			

##### LCS (5120402-BS1)

Prepared & Analyzed: 04-Dec-15

Vinyl chloride	0.019	0.0005	mg/L	0.0200		94.7	67.7-125			
2-Butanone	0.011	0.002	mg/L	0.0200		54.6	50.6-160			
1,1-Dichloroethene	0.019	0.0005	mg/L	0.0200		93.8	64.4-129			
Chloroform	0.019	0.0005	mg/L	0.0200		95.0	82.2-128			
Carbon tetrachloride	0.021	0.0005	mg/L	0.0200		107	75.6-141			
Benzene	0.019	0.0005	mg/L	0.0200		94.2	80.5-129			
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		90.4	79.9-133			
Trichloroethene	0.019	0.0005	mg/L	0.0200		93.2	77.8-129			
Tetrachloroethene	0.016	0.0005	mg/L	0.0200		80.2	69.6-138			
Chlorobenzene	0.020	0.0005	mg/L	0.0200		102	77.6-129			
1,4 Dichlorobenzene	0.020	0.0005	mg/L	0.0200		101	74.8-123			
Surrogate: Dibromofluoromethane	0.00994		mg/L	0.0100		99.4	92.9-119			
Surrogate: Toluene-d8	0.0105		mg/L	0.0100		105	86-108			
Surrogate: 4-Bromofluorobenzene	0.0103		mg/L	0.0100		103	81.7-121			

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5120402 - Volatiles

#### LCS Dup (5120402-BSD1)

Prepared & Analyzed: 04-Dec-15

Vinyl chloride	0.020	0.0005	mg/L	0.0200		101	67.7-125	6.04	27.1	
2-Butanone	0.011	0.002	mg/L	0.0200		54.6	50.6-160	0.00	53.3	
1,1-Dichloroethene	0.018	0.0005	mg/L	0.0200		92.3	64.4-129	1.61	19.5	
Chloroform	0.019	0.0005	mg/L	0.0200		95.7	82.2-128	0.787	7.58	
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		108	75.6-141	1.30	10	
Benzene	0.019	0.0005	mg/L	0.0200		94.6	80.5-129	0.371	6.66	
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		90.2	79.9-133	0.277	8.03	
Trichloroethene	0.019	0.0005	mg/L	0.0200		93.0	77.8-129	0.215	8.91	
Tetrachloroethene	0.016	0.0005	mg/L	0.0200		79.2	69.6-138	1.19	9.15	
Chlorobenzene	0.020	0.0005	mg/L	0.0200		102	77.6-129	0.197	7.46	
1,4 Dichlorobenzene	0.020	0.0005	mg/L	0.0200		99.8	74.8-123	1.49	7.31	
Surrogate: Dibromofluoromethane	0.0101		mg/L	0.0100		101	92.9-119			
Surrogate: Toluene-d8	0.0106		mg/L	0.0100		106	86-108			
Surrogate: 4-Bromofluorobenzene	0.0101		mg/L	0.0100		101	81.7-121			

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Safety & Environmental Solutions  
703 East Clinton  
Hobbs NM, 88240

Project: MALJAMAR PARK STATION  
Project Number: HOL-15-009  
Project Manager: Bob Allen  
Fax To: (575) 393-4388

Reported:  
15-Dec-15 14:12

### TCLP Metals by ICP (1311) - Quality Control

#### Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B512084 - EPA 200.2

##### Blank (B512084-BLK1)

Prepared & Analyzed: 07-Dec-15

Arsenic	ND	0.100	mg/L							
Lead	ND	0.100	mg/L							
Barium	ND	0.010	mg/L							
Silver	ND	0.050	mg/L							
Selenium	ND	0.200	mg/L							
Chromium	ND	0.050	mg/L							
Cadmium	ND	0.050	mg/L							

##### LCS (B512084-BS1)

Prepared & Analyzed: 07-Dec-15

Arsenic	4.07	0.100	mg/L	4.00		102	85-115			
Silver	0.100	0.050	mg/L	0.100		100	85-115			
Barium	2.06	0.010	mg/L	2.00		103	85-115			
Selenium	7.88	0.200	mg/L	8.00		98.5	85-115			
Lead	2.01	0.100	mg/L	2.00		101	85-115			
Chromium	2.01	0.050	mg/L	2.00		100	85-115			
Cadmium	1.98	0.050	mg/L	2.00		99.1	85-115			

##### LCS Dup (B512084-BSD1)

Prepared & Analyzed: 07-Dec-15

Lead	2.07	0.100	mg/L	2.00		103	85-115	2.67	20	
Barium	2.12	0.010	mg/L	2.00		106	85-115	2.67	20	
Silver	0.101	0.050	mg/L	0.100		101	85-115	1.15	20	
Chromium	2.07	0.050	mg/L	2.00		103	85-115	2.95	20	
Cadmium	2.04	0.050	mg/L	2.00		102	85-115	2.90	20	
Arsenic	4.24	0.100	mg/L	4.00		106	85-115	4.11	20	
Selenium	8.07	0.200	mg/L	8.00		101	85-115	2.40	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 Safety & Environmental Solutions  
 703 East Clinton  
 Hobbs NM, 88240

 Project: MALJAMAR PARK STATION  
 Project Number: HOL-15-009  
 Project Manager: Bob Allen  
 Fax To: (575) 393-4388

 Reported:  
 15-Dec-15 14:12

**TCLP Mercury by CVAA - Quality Control**  
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B512152 - EPA 245.1/7470**
**Blank (B512152-BLK1)**

Prepared &amp; Analyzed: 14-Dec-15

Mercury	ND	0.0002	mg/L							
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**LCS (B512152-BS1)**

Prepared &amp; Analyzed: 14-Dec-15

Mercury	0.0019	0.0002	mg/L	0.00200		97.4	85-115			
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**LCS Dup (B512152-BSD1)**

Prepared &amp; Analyzed: 14-Dec-15

Mercury	0.0020	0.0002	mg/L	0.00200		98.1	85-115	0.716	20	
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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

Z-01	> 140
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
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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---

Celey D. Keene, Lab Director/Quality Manager





# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page \_\_\_\_\_ of \_\_\_\_\_

Company Name: Safety & Environmental Solutions, Inc.

Project Manager: Bob Allen

Address: 703 East Clinton

City: Hobbs State: NM Zip: 88240

Phone #: 575-397-0510 Fax #: 575-393-4388

Project #: HCL-15-009 Project Owner: Holly

Project Name: Mallman Park Station

Project Location: Coz County

Sampler Name: Jose Jerry

For Use ONLY

Lab I.D. Sample I.D.

H503131

C-1 Spoils Pile

(G)RAB OR (C)OMP.  
#CONTAINERS  
MATRIX  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER:  
ACID/BASE:  
ICE/COOL  
OTHER:

DATE TIME

TCLP  
RCI  
BTEX  
TPH 8015

ANALYSIS REQUEST

2 SP-1 Surface Bottom

411

11/30/15 11:45

XX

XX

3 SP-1 Low Bottom

411

11/30/15 12:00

XX

XX

4 SP-2 Surface Bottom

411

11/30/15 12:20

XX

XX

5 SP-2 Low Bottom

411

11/30/15 12:20

XX

XX

6 SP-3 Super Bottom

411

11/30/15 12:20

XX

XX

7 SP-3 Low Bottom

411

11/30/15 12:20

XX

XX

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TERMS AND CONDITIONS: Payment shall be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date/Time

Temp.

Sample Condition

CHECKED BY:

Phone Result:

Yes

No

Phone #:

Additional Phone #:

Fax Result:

Yes

No

Additional Fax #:

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

#54

## **Appendix D Final C-141**

District I  
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 Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Holly Energy Partners	Contact: Keith Gerace-Compliance Auditor/Lead	
Address: Po Box 250 Artesia, NM 88211	Telephone No. 575-748-4083	
Facility Name: Maljamar Park Lact 584	Facility Type: Truck LACT Unloading/Crude Storage facility	
Surface Owner: Holly Energy Partners	Mineral Owner	RP-3998

### LOCATION OF RELEASE

Unit Letter	Section: 5	Township: 17S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
-------------	---------------	------------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude 32.857697 Longitude -103.796564

### NATURE OF RELEASE

Type of Release: Crude	Volume of Release Est 25 bbls	Volume Recovered 18 bbls
Source of Release: Crude Storage Tank	Date and Hour of Occurrence 10/26/15 @ 05:04 AM	Date and Hour of Discovery 10/26/15 @ 05:04 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson BLM Jamie Keyes NMOCD	
By Whom? Keith Gerace	Date and Hour: 10/26/15 @ 05:04 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* HEP I & E technicians traced the cause of overfill, and release of 25 bbls from the tanks to equipment failure. A relay that would have automatically shut down the truck unloading LACT to the tanks at high level failed to function properly. The Relay was replace, tested, and the station was put back into service.		
Describe Area Affected and Cleanup Action Taken.* Fluid release was retained inside bermed area. The impacted soil was immediately scraped and placed on plastic for proper disposal at an NMOCD approved facility. SESI was consulted to assess and complete the remediation of the site according to NMOCD guidelines.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Keith Gerace	Approved by Environmental Specialist:	
Title: Compliance Auditor-Lead	Approval Date:	Expiration Date:
E-mail Address: keith.gerace@hollyenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/29/15 Phone: 575-748-4083		

\* Attach Additional Sheets If Necessary