

# **De La Sierra Trucking Delineation Report**

**Section 33 Township 22S, Range 27E  
Eddy County, New Mexico**

**October 14, 2015**



**Prepared for:**

**De La Sierra Trucking  
3000 W Marland Blvd  
Hobbs, NM 88240**

**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
Bryan Ward	De La Sierra Trucking	575-263.6184	
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

**II. Background**

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by De La Sierra Trucking to perform site delineation on the De La Sierra Trucking Yard, concerning a produced water spill of an unknown amount. The impacted area was. This site is situated in Eddy County, Section 33, Township 22S, and Range 27E.

**III. Surface and Ground Water**

There is record of groundwater in the vicinity of the site location. According to the topography map for Eddy County the depth to ground water for Section 33, Township 22S, Range 27E is approximately 150 bgs. Further research of the New Mexico Office of the State Engineer records indicate the average depth to groundwater for the area to be 59' 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.

<b>Depth to Ground Water:</b>			
(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>
<b>Wellhead Protection Area:</b>			
(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>
<b>Distance to Surface Water:</b>			
(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>
<b>RANKING SCORE (TOTAL POINTS)</b>			<b>0</b>

**V. Work Performed**

On September 28, 2015, SESI personnel visited the site to conduct an initial site assessment.

Juno Mapping of the spill area was conducted, siting the GPS coordinates of each sample point. Twenty (20) sample positions were established, in order to ascertain the horizontal extent of impact (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 results of the analysis are presented in the following table:

Sample Date October 02, 2015	BTEX 8021B	Chloride (mg/kg) SM4500Cl <sup>-</sup> B	TPH 8015M
Depth			
SP-1	<0.300	12800	<10.0
SP-2	<0.300	34000	>26.4
SP-3	<0.300	3920	<10.0
SP-4	<0.300	28000	<10.0
SP-5	<0.300	80.0	<10.0
SP-6	<0.300	256	<10.0
SP-7	<0.300	2920	<10.0
SP-8	<0.300	9730	>127
SP-9	<0.300	35200	<10.0
SP-10	<0.300	27600	<10.0
SP-11	<0.300	1600	<10.0
SP-12	<0.300	48.0	<10.0
SP-13	<0.300	14600	<10.0
SP-14	<0.300	15000	>31.3
SP-15	<0.300	6320	>22.1
SP-16	<0.300	3600	<10.0
SP-17	<0.300	496	<10.0
SP-18	<0.300	688	<10.0
SP-19	<0.300	2040	<10.0
SP-20	<0.300	7600	<10.0

Due to the aforementioned results:

SESI is proposing to conduct a secondary sampling event at Five (5) different areas in order to determine the vertical extent of impact.

**VI. Action Plan**

Upon receipt of the analyses for the secondary representative soil samples; SESI will propose and submit a written Remediation Plan for approval.

**VII. Figures & Appendices**

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – Photographs

Appendix B – Analytical Results

Appendix C – Groundwater

**Figure 1**  
**Vicinity Map**



© 2015 Google

Google earth

**Figure 2  
Site Plan**



Sample Point 20  
CI 7600 mg/kg

Sample Point 19  
CI 2040 mg/kg

Sample Point 17  
CI 496 mg/kg

Sample Point 18  
CI 688 mg/kg

CI 48 mg/kg

Sample Point 12

Sample Point 11  
CI 1600 mg/kg

Sample Point 13  
CI 14600 mg/kg

Sample Point 14  
CI 15000 mg/kg  
DRO 31.3

Sample Point 15  
CI 6320  
DRO 22.1

Sample Point 16  
CI 3600

Sample Point 10  
CI 27600 mg/kg

Sample Point 9  
CI 35200 mg/kg

Sample Point 6  
CI 256 mg/kg

Sample Point 1  
CI 12800 mg/kg

Sample Point 8  
CI 9730 mg/kg  
DRO 127

Sample Point 7  
CI 2920 mg/kg

Sample Point 5  
CI 80 mg/kg

Sample Point 2  
CI 34000 mg/kg  
DRO 26.4

Sample Point 3  
CI 3920 mg/kg

Sample Point 4  
CI 28000 mg/kg

## **Appendix B**

# **Photographs**

**La Sierra Trucking  
Eddy County New Mexico  
Sec 33, T22S, R27E**



**La Sierra Trucking  
Eddy County New Mexico  
Sec 33, T22S, R27E**



**La Sierra Trucking  
Eddy County New Mexico  
Sec 33, T22S, R27E**



**La Sierra Trucking  
Eddy County New Mexico  
Sec 33, T22S, R27E**



# **Appendix C**

## **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="#">C 00009</a>	C	ED		3	3	3	22	22S	27E	576641	3581908	165	100	65
<a href="#">C 00012</a>	C	ED					18	22S	27E	572515	3584168*	120		
<a href="#">C 00013</a>	C	ED		3	2	18	22S	27E	572683	3584396*	120			
<a href="#">C 00016</a>	C	ED		3	3	1	21	22S	27E	575018	3582698	167		
<a href="#">C 00017</a>	C	ED		3	3	2	19	22S	27E	572589	3582669*	125		
<a href="#">C 00021 A</a>	C	ED		4	4	4	09	22S	27E	576421	3585150*	196	40	156
<a href="#">C 00027</a>	C	ED		4	4	3	21	22S	27E	575628	3581891	166		
<a href="#">C 00033</a>	C	ED					19	22S	27E	572516	3582546*	85		
<a href="#">C 00037</a>	C	ED		2	4	4	18	22S	27E	573191	3583678*	100		
<a href="#">C 00040</a>	C	ED		2	2	19	22S	27E	573093	3583175*	100			
<a href="#">C 00042</a>	C	ED		2	2	19	22S	27E	573093	3583175*	100			
<a href="#">C 00043</a>	C	ED		3	3	3	14	22S	27E	578256	3583557*	120		
<a href="#">C 00049</a>	C	ED		3	2	1	07	22S	27E	572167	3586303*	105		
<a href="#">C 00077</a>	C	ED		1	1	1	26	22S	27E	578266	3581726*	118	40	78
<a href="#">C 00095</a>	C	ED		3	2	3	27	22S	27E	577052	3580694*	157		
<a href="#">C 00147</a>	C	ED		1	3	1	20	22S	27E	573398	3582872*	53		
<a href="#">C 00148</a>	C	ED		2	2	1	17	22S	27E	573992	3584916*	60		
<a href="#">C 00152</a>	C	ED		3	3	3	22	22S	27E	576641	3581908*	151		
<a href="#">C 00153</a>	C	ED		3	4	1	17	22S	27E	573794	3584307*	140		
<a href="#">C 00160</a>	C	ED		2	3	3	10	22S	27E	576826	3585355*	85	40	45
<a href="#">C 00163</a>	C	ED		2	4	3	20	22S	27E	574007	3582067*	184	80	104
<a href="#">C 00169</a>	C	ED		2	1	4	07	22S	27E	572775	3585716*	150		
<a href="#">C 00194</a>	C	ED		1	4	3	27	22S	27E	577054	3580487*	165	100	65
<a href="#">C 00204</a>	C	ED		3	3	2	32	22S	27E	574227	3579437*	170		
<a href="#">C 00209</a>	C	ED		3	2	4	25	22S	27E	581111	3580763*	125		
<a href="#">C 00229</a>	C	ED		1	1	1	34	22S	27E	576651	3580074*	200		

\*UTM location was derived from PLSS - see Help

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(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="#">C 00239</a>	C	ED		1	2	17	22S	27E		574298	3584822*	58			
<a href="#">C 00239 POD2</a>	C	ED		1	1	2	17	22S	27E	574197	3584921*	56	28	28	
<a href="#">C 00249</a>	C	ED		2	2	2	31	22S	27E	573213	3580025*	200			
<a href="#">C 00251</a>	C	ED		4	4	22	22S	27E		577959	3582027*	84			
<a href="#">C 00267</a>	C	ED		3	1	1	16	22S	27E	575007	3584730*	54	42	12	
<a href="#">C 00271</a>	C	ED		1	4	07	22S	27E		572676	3585617*	111	30	81	
<a href="#">C 00273</a>	C	ED		1	2	1	16	22S	27E	575412	3584935*	100			
<a href="#">C 00278</a>	C	ED		3	3	1	20	22S	27E	573398	3582672*	80			
<a href="#">C 00279</a>	C	ED		2	2	26	22S	27E		579583	3581647*	160	48	112	
<a href="#">C 00284</a>	C	ED		2	1	15	22S	27E		577134	3584856*	130	20	110	
<a href="#">C 00286</a>	C	ED		4	4	4	35	22S	27E	579688	3578702*	150			
<a href="#">C 00294</a>	C	ED		3	3	4	24	22S	27E	580701	3581970*	156	15	141	
<a href="#">C 00308</a>	C	ED		4	2	07	22S	27E		573077	3586019*	35			
<a href="#">C 00322</a>	C	ED		3	3	2	17	22S	27E	574199	3584313*	70			
<a href="#">C 00356</a>	C	ED					34	22S	27E	577363	3579359*	155	45	110	
<a href="#">C 00357</a>	C	ED		4	4	2	17	22S	27E	574804	3584318*	170	50	120	
<a href="#">C 00360</a>	C	ED		4	4	3	08	22S	27E	573990	3585125*	125			
<a href="#">C 00393</a>	C	ED		3	1	3	25	22S	27E	579890	3580742*	200	30	170	
<a href="#">C 00403</a>	C	ED		2	1	16	22S	27E		575513	3584836*	106	34	72	
<a href="#">C 00412</a>	C	ED		4	4	08	22S	27E		574701	3585234*	237	40	197	
<a href="#">C 00436</a>	C	ED		3	3	26	22S	27E		578371	3580407*	88	48	40	
<a href="#">C 00455</a>	C	ED		2	2	2	34	22S	27E	578066	3580093*	133			
<a href="#">C 00467</a>	C	ED		2	4	27	22S	27E		577964	3580807*	200	74	126	
<a href="#">C 00479</a>	C	ED					3	03	22S	27E	576919	3587082*	200		
<a href="#">C 00480</a>	C	ED		3	4	2	17	22S	27E	574604	3584318*	200			
<a href="#">C 00486</a>	C	ED		4	4	4	28	22S	27E	576444	3580276*	146			
<a href="#">C 00514</a>	C	ED					06	22S	27E	572498	3587396*	50			
<a href="#">C 00515</a>	C	ED		3	4	4	33	22S	27E	576254	3578650*	180	80	100	
<a href="#">C 00526</a>	C	ED		3	2	1	17	22S	27E	573792	3584716*	325			

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(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 00532</a>	C	ED	2	2	2	27	22S	27E	578060	3581720*		90			
<a href="#">C 00559</a>	C	ED	3	4	4	29	22S	27E	574628	3580255*		200			
<a href="#">C 00562</a>	C	ED	4	2	4	27	22S	27E	578063	3580706*		150			
<a href="#">C 00572</a>	C	ED	2	4	1	27	22S	27E	577250	3581301*		98	90	8	
<a href="#">C 00576</a>	C	ED	3	1	1	15	22S	27E	576628	3584749*		119	184	-65	
<a href="#">C 00576 S</a>	C	ED	2	4	1	15	22S	27E	577235	3584550		172	48	124	
<a href="#">C 00582</a>	C	ED	1	3	1	14	22S	27E	578252	3584567*		60			
<a href="#">C 00587</a>	C	ED	2	2	2	28	22S	27E	576438	3581696*		130	84	46	
<a href="#">C 00588</a>	C	ED	2	2	1	27	22S	27E	577248	3581707*		200			
<a href="#">C 00589</a>	C	ED	2	4	4	04	22S	27E	576412	3586974*					
<a href="#">C 00597</a>	C	ED	1	2	3	29	22S	27E	573815	3580848*		140	90	50	
<a href="#">C 00613</a>	C	ED	4	2	4	21	22S	27E	576434	3582309*		100	60	40	
<a href="#">C 00614</a>	C	ED	3	1	3	22	22S	27E	576639	3582314*		95	60	35	
<a href="#">C 00619</a>	C	ED	3	3	2	32	22S	27E	574227	3579437*		250			
<a href="#">C 00621</a>	C	ED	4	2	19	22S	27E	573094	3582771*		265				
<a href="#">C 00627</a>	C	ED	1	13	22S	27E	580178	3584690*		100					
<a href="#">C 00628</a>	C	ED	2	3	3	20	22S	27E	573601	3582060*		175	80	95	
<a href="#">C 00640</a>	C	ED	2	2	1	17	22S	27E	573992	3584916*		60	34	26	
<a href="#">C 00653</a>	C	ED	1	1	2	34	22S	27E	577462	3580087*		120	80	40	
<a href="#">C 00663</a>	C	ED	17	22S	27E	574098	3584187*		115	30	85				
<a href="#">C 00680</a>	C	ED	3	1	3	35	22S	27E	578272	3579085*		150	46	104	
<a href="#">C 00693</a>	C	ED	2	2	1	16	22S	27E	575612	3584935*		70	34	36	
<a href="#">C 00700</a>	C	ED	3	3	2	15	22S	27E	577441	3584355*		132			
<a href="#">C 00701</a>	C	ED	2	1	16	22S	27E	575513	3584836*		65	34	31		
<a href="#">C 00717</a>	C	ED	3	3	1	05	22S	27E	573369	3587548*		60	32	28	
<a href="#">C 00733</a>	C	ED	4	3	3	20	22S	27E	573601	3581860*		220	60	160	
<a href="#">C 00760</a>	C	ED	16	22S	27E	575717	3584215*		72	44	28				
<a href="#">C 00770 S</a>	C	ED	1	3	4	25	22S	27E	580705	3580551*		210			
<a href="#">C 00783</a>	C	ED	3	1	3	05	22S	27E	573372	3587136*		135	73	62	

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(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Q Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 00836</a>	C	ED	3	1	1	13	22S	27E	579874	3584794*		175	52	123
<a href="#">C 00880</a>	C	ED	4	2	2	34	22S	27E	578066	3579893*		190		
<a href="#">C 00901</a>	C	ED	1	2	1	27	22S	27E	577048	3581707*		193	40	153
<a href="#">C 00971</a>	C	ED		3	3	13	22S	27E	579981	3583679*		60	18	42
<a href="#">C 00978</a>	C	ED	3	3	2	18	22S	27E	572582	3584295*		200	68	132
<a href="#">C 00978 POD2</a>	C	ED	3	3	2	18	22S	27E	572582	3584295*		200	68	132
<a href="#">C 00981</a>	C	ED	2	2	2	34	22S	27E	578066	3580093*		250	41	209
<a href="#">C 01010</a>	C	ED		4	3	16	22S	27E	575519	3583617*		150		
<a href="#">C 01035</a>	C	ED			3	20	22S	27E	573703	3582162*		90	75	15
<a href="#">C 01037</a>	C	ED	2	2	2	31	22S	27E	573213	3580025*		141	109	32
<a href="#">C 01056</a>	C	ED	2	4	1	17	22S	27E	573994	3584507*		115	45	70
<a href="#">C 01086</a>	C	ED			1	30	22S	27E	572121	3581328*		200	140	60
<a href="#">C 01088</a>	C	ED	3	3	3	12	22S	27E	579872	3585199*		64	36	28
<a href="#">C 01097</a>	C	ED	1	1	2	16	22S	27E	575817	3584940*		155	38	117
<a href="#">C 01110</a>	C	ED	3	1	3	16	22S	27E	575011	3583917*		97		
<a href="#">C 01184</a>	C	ED	4	4	4	30	22S	27E	573210	3580230*		144	131	13
<a href="#">C 01209</a>	C	ED		2	2	01	22S	27E	581173	3588142*		150		
<a href="#">C 01286</a>	C	ED		2	3	36	22S	27E	580401	3579227*		210	60	150
<a href="#">C 01291</a>	C	ED	4	2	1	06	22S	27E	572354	3587914*		50		
<a href="#">C 01356</a>	C	ED	4	2	4	30	22S	27E	573207	3580636*		210	130	80
<a href="#">C 01383</a>	C	ED	4	3	3	20	22S	27E	573601	3581860*		65	50	15
<a href="#">C 01478</a>	C	ED	2	2	4	30	22S	27E	573207	3580836*		172	149	23
<a href="#">C 01493</a>	C	ED	2	3	3	09	22S	27E	575205	3585337*		60	18	42
<a href="#">C 01504</a>	C	ED	4	3	2	17	22S	27E	574399	3584313*		65	45	20
<a href="#">C 01523</a>	C	ED	3	3	1	35	22S	27E	578272	3579492*		118	60	58
<a href="#">C 01545</a>	C	ED	1	3	1	16	22S	27E	575009	3584524*		90		
<a href="#">C 01560</a>	C	ED		2	1	16	22S	27E	575513	3584836*		80	37	43
<a href="#">C 01590</a>	C	ED		3	1	13	22S	27E	579977	3584489*		100	40	60
<a href="#">C 01625</a>	C	ED			1	18	22S	27E	572109	3584591*		36	28	8

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(In feet)

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<a href="#">C 01677</a>	C	ED		1	3	13	22S	27E	579979	3584084*		56	20	36
<a href="#">C 01691</a>	C	ED	3	1	1	30	22S	27E	571816	3581434*		210	68	142
<a href="#">C 01700</a>	C	ED	3	3	34	22S	27E	576760	3578756*		205	118	87	
<a href="#">C 01713</a>	C	ED	3	1	3	23	22S	27E	578262	3582339*		101	46	55
<a href="#">C 01722</a>	C	ED	3	1	1	13	22S	27E	579874	3584794*		180	64	116
<a href="#">C 01744</a>	C	ED	4	4	28	22S	27E	576345	3580377*		140	100	40	
<a href="#">C 01749</a>	C	ED		3	32	22S	27E	573728	3578915*		156	126	30	
<a href="#">C 01761</a>	C	ED		3	35	22S	27E	578575	3578980*		135	85	50	
<a href="#">C 01768</a>	C	ED	2	1	20	22S	27E	573902	3583186*		104			
<a href="#">C 01776</a>	C	ED	3	1	23	22S	27E	578361	3582846*		157	40	117	
<a href="#">C 01790</a>	C	ED	1	1	06	22S	27E	571887	3588005*		59	17	42	
<a href="#">C 01801</a>	C	ED	3	3	34	22S	27E	576760	3578756*		220			
<a href="#">C 01805</a>	C	ED		3	23	22S	27E	578566	3582235*		125	98	27	
<a href="#">C 01833</a>	C	ED		3	32	22S	27E	573728	3578915*		180	155	25	
<a href="#">C 01853</a>	C	ED	1	2	16	22S	27E	575918	3584841*		55	42	13	
<a href="#">C 01861</a>	C	ED	2	1	16	22S	27E	575513	3584836*		60			
<a href="#">C 01953</a>	C	ED	2	3	17	22S	27E	573898	3584001*		82	42	40	
<a href="#">C 02063</a>	C	ED			08	22S	27E	574089	3585825*		45	25	20	
<a href="#">C 02124</a>	C	ED	3	3	32	22S	27E	573527	3578714*		195	60	135	
<a href="#">C 02127</a>	C	ED	4	4	3	02	22S	27E	578846	3586802*		160	30	130
<a href="#">C 02149</a>	C	ED	4	4	4	28	22S	27E	576444	3580276*		119	62	57
<a href="#">C 02206</a>	C	ED	2	4	4	08	22S	27E	574800	3585333*		60	18	42
<a href="#">C 02230</a>	C	ED			33	22S	27E	575742	3579340*		260	90	170	
<a href="#">C 02259</a>	C	ED	2	4	21	22S	27E	576335	3582410*		60	45	15	
<a href="#">C 02262</a>	C	ED	4	2	32	22S	27E	574732	3579544*		128	60	68	
<a href="#">C 02374</a>	C	ED	3	4	09	22S	27E	575916	3585247*		54	15	39	
<a href="#">C 02379</a>	C	ED	3	4	09	22S	27E	575916	3585247*		55	20	35	
<a href="#">C 02392</a>	C	ED	4	2	33	22S	27E	576350	3579564*		150	48	102	
<a href="#">C 02409</a>	C	ED	3	3	4	30	22S	27E	572607	3580225*		191	90	101

\*UTM location was derived from PLSS - see Help

(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	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 02412</a>	C	ED		2	3	3	33	22S	27E	575238	3578836*		251	65	186
<a href="#">C 02433</a>	C	ED		4	3	3	33	22S	27E	575238	3578636*		96	64	32
<a href="#">C 02449</a>	C	ED					33	22S	27E	575742	3579340*		300	70	230
<a href="#">C 02488</a>	C	ED		4	4	27		22S	27E	577966	3580401*		76	38	38
<a href="#">C 02499</a>	C	ED		1	1	25		22S	27E	579989	3581653*		100	35	65
<a href="#">C 02502</a>	C	ED		2	2	32		22S	27E	574731	3579950*		98	64	34
<a href="#">C 02512</a>	C	ED		1	3	22		22S	27E	576740	3582415*		68	38	30
<a href="#">C 02512 POD2</a>	C	ED		1	3	22		22S	27E	576740	3582415*		142	57	85
<a href="#">C 02525</a>	C	ED		1	3	3	08	22S	27E	573385	3585321*		49	17	32
<a href="#">C 02529</a>	C	ED			3	12		22S	27E	580174	3585501*		113	51	62
<a href="#">C 02536</a>	C	ED		4	1	1	25	22S	27E	580088	3581552*		120	20	100
<a href="#">C 02558</a>	C	ED		2	4	21		22S	27E	576335	3582410*		55	36	19
<a href="#">C 02587</a>	R	C	ED	2	2	26		22S	27E	579630	3581720		71	12	59
<a href="#">C 02590</a>	C	ED		2	1	2	32	22S	27E	574425	3580043*		87	45	42
<a href="#">C 02590 POD2</a>	C	ED		2	1	2	32	22S	27E	574425	3580043*		300	114	186
<a href="#">C 02593</a>	C	ED		3	4	3	06	22S	27E	572164	3586697*		25	15	10
<a href="#">C 02618</a>	C	ED		3	1	3	08	22S	27E	573382	3585522*		41	20	21
<a href="#">C 02624</a>	C	ED		3	2	2	31	22S	27E	573013	3579825*		220	75	145
<a href="#">C 02631</a>	C	ED		4	4	2	29	22S	27E	574823	3581067*		96	69	27
<a href="#">C 02648</a>	C	ED		4	2	29		22S	27E	574724	3581168*		200	66	134
<a href="#">C 02667</a>	C	ED		1	3	4	29	22S	27E	574223	3580448*		128	81	47
<a href="#">C 02696</a>	C	ED		1	3	3	33	22S	27E	575038	3578836*		124	71	53
<a href="#">C 02709</a>	C	ED		2	3	4	07	22S	27E	572777	3585318*		61	28	33
<a href="#">C 02787</a>	C	ED		1	3	1	28	22S	27E	575028	3581274*		143	54	89
<a href="#">C 02881</a>	C	ED		4	4	22		22S	27E	577959	3582027*		60	39	21
<a href="#">C 02885</a>	C	ED		2	4	3	08	22S	27E	573990	3585325*		47	18	29
<a href="#">C 02899</a>	C	ED		1	3	4	09	22S	27E	575815	3585346*		33	22	11
<a href="#">C 02903</a>	C	ED		3	4	4	22	22S	27E	577858	3581926*		57	40	17
<a href="#">C 02961</a>	C	ED		3	1	4	21	22S	27E	575830	3582303*		150	70	80

\*UTM location was derived from PLSS - see Help

(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	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 02970</a>	C	ED		3	4	4	32	22S	27E		574635	3578630*	138	71	67
<a href="#">C 02996</a>	C	ED		1	1	1	33	22S	27E		575034	3580055*	120	62	58
<a href="#">C 03007</a>	C	ED		1	2	3	06	22S	27E		572161	3587304*	39	11	28
<a href="#">C 03013</a>	C	ED		4	1	3	33	22S	27E		575237	3579043*	118	63	55
<a href="#">C 03028</a>	C	ED		1	1	2	32	22S	27E		574225	3580043*	217	89	128
<a href="#">C 03029</a>	C	ED			3	4	09	22S	27E		575916	3585247*	45	18	27
<a href="#">C 03030</a>	C	ED		3	1	2	32	22S	27E		574225	3579843*	100	53	47
<a href="#">C 03038</a>	C	ED		1	3	4	09	22S	27E		575815	3585346*	43	15	28
<a href="#">C 03043</a>	C	ED		2	3	3	34	22S	27E		576859	3578855*	118	68	50
<a href="#">C 03064</a>	C	ED		4	2	4	28	22S	27E		576442	3580682*	125	70	55
<a href="#">C 03066</a>	C	ED		1	1	3	33	22S	27E		575037	3579243*	240		
<a href="#">C 03068</a>	C	ED		1	3	3	20	22S	27E		573401	3582060*		60	
<a href="#">C 03073</a>	C	ED		4	4	2	34	22S	27E		578068	3579486*	150	122	28
<a href="#">C 03074</a>	C	ED		4	3	1	33	22S	27E		575235	3579449*	115	85	30
<a href="#">C 03078</a>	C	ED		1	2	4	31	22S	27E		573019	3579216*	130	60	70
<a href="#">C 03084</a>	C	ED		3	1	4	08	22S	27E		574192	3585532*	112	14	98
<a href="#">C 03085</a>	C	ED		2	2	2	32	22S	27E		574830	3580049*	155	82	73
<a href="#">C 03086</a>	C	ED		2	3	3	08	22S	27E		573585	3585321*	163	38	125
<a href="#">C 03117</a>	C	ED		1	3	3	08	22S	27E		573385	3585321*	400		
<a href="#">C 03123</a>	C	ED		2	2	4	30	22S	27E		573207	3580836*	159	97	62
<a href="#">C 03130</a>	C	ED		4	2	1	29	22S	27E		574010	3581461*	162		
<a href="#">C 03157</a>	C	ED		1	4	1	30	22S	27E		572196	3581231*	173	100	73
<a href="#">C 03161</a>	C	ED		3	1	1	31	22S	27E		571829	3579813*	200		
<a href="#">C 03162</a>	C	ED		2	2	2	18	22S	27E		573183	3584909*	42		
<a href="#">C 03164</a>	C	ED		3	1	3	19	22S	27E		571811	3582254*	130	87	43
<a href="#">C 03274</a>	C	ED		4	4	3	33	22S	27E		575643	3578641*	130	81	49
<a href="#">C 03290</a>	C	ED		1	3	3	34	22S	27E		576715	3578778	127	72	55
<a href="#">C 03364 POD1</a>	R	C	ED	4	3	4	27	22S	27E		577765	3580245	107	50	57
<a href="#">C 03364 POD2</a>	C	ED		4	3	4	27	22S	27E		577765	3580249	250		

\*UTM location was derived from PLSS - see Help

(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 6	Q 4	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 03374 POD1</a>	C	ED	4	4	4	08	22S	27E	574898	3585044		58	25	33
<a href="#">C 03392 POD1</a>	C	ED	2	2	4	28	22S	27E	576508	3580886		140	70	70
<a href="#">C 03434 POD1</a>	C	ED	4	4	2	29	22S	27E	574876	3581101		99	75	24
<a href="#">C 03480 POD1</a>	C	ED	3	2	3	16	22S	27E	575466	3583961		74	41	33
<a href="#">C 03504 POD1</a>	C	ED	2	3	4	32	22S	27E	574508	3578789		105	90	15
<a href="#">C 03505 POD1</a>	C	ED	3	2	2	26	22S	27E	579548	3581491		80		
<a href="#">C 03506 POD1</a>	C	ED	2	1	4	19	22S	27E	572735	3582415		85	71	14
<a href="#">C 03514 POD1</a>	C	ED	1	3	1	24	22S	27E	579923	3583010		59	31	28
<a href="#">C 03549 POD1</a>	C	ED	3	4	3	03	22S	27E	567352	3586612		200	195	5
<a href="#">C 03550 POD1</a>	C	ED	2	3	4	06	22S	27E	572728	3586988		25		
<a href="#">C 03553 POD1</a>	C	ED	4	2	2	33	22S	27E	576554	3579841		200	75	125
<a href="#">C 03738 POD1</a>	C	ED	1	1	3	34	22S	27E	576785	3579382		137	68	69
<a href="#">C 03763 POD1</a>	C	ED	1	2	2	28	22S	27E	575687	3581616		240	55	185
<a href="#">C 03821 POD1</a>	C	ED	2	2	3	32	22S	27E	573988	3579146		200	120	80

Average Depth to Water: **59 feet**  
 Minimum Depth: **11 feet**  
 Maximum Depth: **195 feet**

Record Count: 214

**Basin/County Search:**

**Basin:** Carlsbad      **County:** Eddy      **Subbasin:** Carlsbad

**PLSS Search:**

**Township:** 22S      **Range:** 27E

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.

## **Appendix D – Analytical Results**



October 08, 2015

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DE LA SIERRA YARD

Enclosed are the results of analyses for samples received by the laboratory on 10/02/15 16:25.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 10/02/2015  
 Reported: 10/08/2015  
 Project Name: DE LA SIERRA YARD  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NM

 Sampling Date: 10/02/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #1 (H502618-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.21	110	2.00	0.252	
Toluene*	<0.050	0.050	10/06/2015	ND	2.08	104	2.00	0.0576	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.76	87.9	2.00	0.776	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.96	99.3	6.00	1.07	
Total BTEX	<0.300	0.300	10/06/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>12800</b>	16.0	10/05/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232	

*Surrogate: 1-Chlorooctane 94.3 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 94.4 % 52.1-176*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #2 (H502618-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.21	110	2.00	0.252	
Toluene*	<0.050	0.050	10/06/2015	ND	2.08	104	2.00	0.0576	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.76	87.9	2.00	0.776	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.96	99.3	6.00	1.07	
Total BTEX	<0.300	0.300	10/06/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 108 % 85.6-137*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>34000</b>	16.0	10/05/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
<b>DRO &gt;C10-C28</b>	<b>26.4</b>	10.0	10/06/2015	ND	215	108	200	0.232	

*Surrogate: 1-Chlorooctane 94.3 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 96.2 % 52.1-176*

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability 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 whatsoever 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 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 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 Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #3 (H502618-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.21	110	2.00	0.252	
Toluene*	<0.050	0.050	10/06/2015	ND	2.08	104	2.00	0.0576	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.76	87.9	2.00	0.776	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.96	99.3	6.00	1.07	
Total BTEX	<0.300	0.300	10/06/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3920</b>	16.0	10/05/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232	

*Surrogate: 1-Chlorooctane 91.3 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 89.9 % 52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #4 (H502618-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.21	110	2.00	0.252	
Toluene*	<0.050	0.050	10/06/2015	ND	2.08	104	2.00	0.0576	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.76	87.9	2.00	0.776	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.96	99.3	6.00	1.07	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	10/05/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232	

Surrogate: 1-Chlorooctane 94.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #5 (H502618-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.21	110	2.00	0.252	
Toluene*	<0.050	0.050	10/06/2015	ND	2.08	104	2.00	0.0576	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.76	87.9	2.00	0.776	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.96	99.3	6.00	1.07	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/05/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232	

Surrogate: 1-Chlorooctane 97.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.7 % 52.1-176

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 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #6 (H502618-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.21	110	2.00	0.252	
Toluene*	<0.050	0.050	10/06/2015	ND	2.08	104	2.00	0.0576	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.76	87.9	2.00	0.776	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.96	99.3	6.00	1.07	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	10/05/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.7 % 52.1-176

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 Bob Allen  
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 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #7 (H502618-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2015	ND	2.04	102	2.00	2.92		
Toluene*	<0.050	0.050	10/07/2015	ND	1.90	95.2	2.00	2.19		
Ethylbenzene*	<0.050	0.050	10/07/2015	ND	1.61	80.3	2.00	1.41		
Total Xylenes*	<0.150	0.150	10/07/2015	ND	5.63	93.8	6.00	0.660		
Total BTEX	<0.300	0.300	10/07/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	10/05/2015	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894		
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232		

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #8 (H502618-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188	
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>9730</b>	16.0	10/05/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
<b>DRO &gt;C10-C28</b>	<b>127</b>	10.0	10/06/2015	ND	215	108	200	0.232	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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 Bob Allen  
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 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #9 (H502618-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188	
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	35200	16.0	10/05/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #10 (H502618-10)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188		
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346		
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130		
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119		
Total BTEX	<0.300	0.300	10/06/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	27600	16.0	10/06/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894		
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232		

Surrogate: 1-Chlorooctane 97.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.9 % 52.1-176

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 Fax To: (575) 393-4388

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #11 (H502618-11)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188		
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346		
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130		
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119		
Total BTEX	<0.300	0.300	10/06/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	10/06/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894		
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232		

Surrogate: 1-Chlorooctane 92.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.6 % 52.1-176

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Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #12 (H502618-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188		
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346		
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130		
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119		
Total BTEX	<0.300	0.300	10/06/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>48.0</b>	16.0	10/06/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894		
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232		

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 10/02/2015  
 Reported: 10/08/2015  
 Project Name: DE LA SIERRA YARD  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NM

 Sampling Date: 10/02/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #13 (H502618-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188	
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	10/06/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 10/02/2015  
 Reported: 10/08/2015  
 Project Name: DE LA SIERRA YARD  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NM

 Sampling Date: 10/02/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #14 (H502618-14)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188	
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>15000</b>	16.0	10/06/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
<b>DRO &gt;C10-C28</b>	<b>31.3</b>	10.0	10/06/2015	ND	215	108	200	0.232	

Surrogate: 1-Chlorooctane 91.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #15 (H502618-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188	
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6320</b>	16.0	10/06/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
<b>DRO &gt;C10-C28</b>	<b>22.1</b>	10.0	10/06/2015	ND	215	108	200	0.232	

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #16 (H502618-16)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188		
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346		
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130		
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119		
Total BTEX	<0.300	0.300	10/06/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>3600</b>	16.0	10/06/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894		
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232		

*Surrogate: 1-Chlorooctane 113 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 112 % 52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #17 (H502618-17)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188		
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346		
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130		
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119		
Total BTEX	<0.300	0.300	10/06/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>496</b>	16.0	10/06/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894		
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232		

Surrogate: 1-Chlorooctane 99.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/02/2015	Sampling Date:	10/02/2015
Reported:	10/08/2015	Sampling Type:	Soil
Project Name:	DE LA SIERRA YARD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP #18 (H502618-18)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188	
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119	
Total BTEX	<0.300	0.300	10/06/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>688</b>	16.0	10/06/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	197	98.4	200	0.894	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	215	108	200	0.232	

*Surrogate: 1-Chlorooctane 103 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 103 % 52.1-176*

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 10/02/2015  
 Reported: 10/08/2015  
 Project Name: DE LA SIERRA YARD  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NM

 Sampling Date: 10/02/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #19 (H502618-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188	
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	10/06/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	190	95.1	200	0.614	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	207	104	200	0.380	

Surrogate: 1-Chlorooctane 96.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 10/02/2015  
 Reported: 10/08/2015  
 Project Name: DE LA SIERRA YARD  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NM

 Sampling Date: 10/02/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #20 (H502618-20)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2015	ND	2.15	107	2.00	0.188	
Toluene*	<0.050	0.050	10/06/2015	ND	2.09	104	2.00	0.346	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.81	90.6	2.00	0.130	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.91	98.5	6.00	0.119	
Total BTEX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>7600</b>	16.0	10/06/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/06/2015	ND	190	95.1	200	0.614	
DRO >C10-C28	<10.0	10.0	10/06/2015	ND	207	104	200	0.380	

Surrogate: 1-Chlorooctane 97.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.0 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

### 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



---

Celey D. Keene, Lab Director/Quality Manager





ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

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 #: [blank] Project Owner: [blank]  
 Project Name: DeLaSerra Yard  
 Project Location: Chelsbad  
 Sampler Name: Bob Miller  
 For Lab Use Only: [blank]

P.O. #: [blank] Company: Same  
 Address: [blank] City: [blank] State: [blank] Zip: [blank]  
 Phone #: [blank] Fax #: [blank]

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
HS02008	SDA11	C	1							10-2-16	10:56	BTEV 8015 C-1
	SDA12										11:07	
	SDA13										11:13	
	SDA14										11:20	
	SDA15										11:26	
	SDA16										11:33	
	SDA17										11:41	
	SDA18										11:47	
	SDA19										11:54	
	SDA20											

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Sampler Relinquished By: [Signature] Date: 10/2/16 Time: 4:35 PM  
 Relinquished By: [Signature] Date: [blank] Time: [blank]  
 Received By: [Signature] Date: [blank] Time: [blank]

Delivered By: (Circle One) Temp. 56°C Sample Condition: Cool Intact  Yes  No  
 Sampler - UPS - Bus - Other: #54

Phone Result:  Yes  No Add'l Phone #: [blank]  
 Fax Result:  Yes  No Add'l Fax #: [blank]  
 REMARKS: See email in folder on page 1

Terms and Conditions: Interest will 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.