Osborn Heirs Company

Mattie Price Tank Battery Delineation Report & Work Plan

Section 06, Township 17S, Range 38E Lea County, New Mexico

1R-421, nAPP2118332198 1RP-2047, nAPP2118730210 1RP-5686, nRM1926758725

July 6, 2021



Prepared for: Osborn Heirs Company P.O. Box 17968 San Antonio, TX 78217

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
Gary Cunningham	Osborn Heirs Co.	210-826-0700	garyc@osbornheirs.com
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

Osborn Heirs Company representatives, to assess site impact with the open NMOCD permit of 1RP-421, an open remediation permit assigned number 1RP-2047, as well as a recent spill event that has been assigned 1RP-5686.

According to the site investigation report dated March 2005 and submitted to the NMOCD, Kane Environmental engineering, Inc. was consulted by Osborn Heirs Company to assess and delineate a historical impact to this site (1RP-421).

According to a subsequent C-141 and spill notification to the NMOCD dated December 25, 2008, the cone shaped bottom of an oil production tank ruptured without any warning. Upon discovery of the release, production was switched to another tank and a vacuum truck was mobilized. When the tank bottom gave way, oil, paraffin, and sludge traversed the facility location. Some fluid was absorbed into the soil, while soil-paraffin and sludge formed a crust at the surface. Approximately 5bbls of fluid was picked up by the vacuum truck and transported to a certified disposal center. No oil or other material impacted the pasture area. The affected area measured approximately 100 ft. X 25 ft (1RP-2047).

According to the most recent event that occurred on April 05, 2019, as was reported on the C-141, the Mattie Price, being an inactive well, began flowing thereby causing the stock tank to overflow. The release was completely contained in the secondary containment area (Figure 2). Approximately 98 square yards of surface area was impacted. The remediation permit number assigned to this event is (1RP-5686).

III. Surface and Ground Water

Research of the New Mexico Office of the State Engineer records indicates the depth to groundwater for Section 6, Township 17S, and Range 38E to be around 75' bgs. However, since there are no wells within ½ mile from the releases and less than 25 years old, the site will need to be remediated to the most stringent NMOCD standards.

IV. Characterization

The target cleanup levels are determined using the NMAC 19.15.29 revisions dated July 24, 2018. The soil screening criteria presented below, and 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 100 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration should be done to a level below 600 ppm. The soil in this area is characterized as a Simona-Pajarito association that is considered sandy, deep soils, and soils that are shallow to

caliche; from wind-worked deposits.

Table 1 Closure Criteria for Soils Impacted by a Release					
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l		Method*	Limit**		
<50 feet	Chloride***	EPA 300.0 or SM4500 CI	600 mg/kg		
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	100 mg/kg		
	втех	EPA SW-846 Method 8021B or 8260B	50 mg/kg		
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg		
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 CI B	10,000 mg/kg		
	TPH (GRO+DRO+MRO)		2,500 mg/kg		
	втех	EPA SW-846 Method 8021B or 8260B	50 mg/kg		
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg		
>100 feet	Chloride***	EPA 300.0 or SM4500 CI B	20,000 mg/kg		
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	2,500 mg/kg		
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg		

V. Work Performed

Site activities for this site commenced in 2005 for Remediation Permit Number 1R-421 by Kane Environmental with the submittal of a work plan to the NMOCD.

The following is a recap of the environmental activities that followed:

June 2005: The subsurface affected material was delineated to below the threshold values for remediation guidelines at that time.

January 2006: Three monitoring wells that were installed in 2006 were sampled. Samples from these wells verified that no groundwater impacts were present. BTEX constituents were not detected at 0.001 mg/L; chlorides ranged from 25 to 188 mg/L. Following sampling the three wells were plugged per previous agreement with the NMOCD.

January 2006: 332 cubic yards of affected material was excavated and properly disposed of at J & L Landfarm of Hobbs, NM (Permit #NM-01-0023) for treatment and disposal.

January 2006: Eleven remediation wells were installed to access the affected vadose zone between 10 and 25 feet. Sparge remediation was initiated using a household compressor at a pressure of 15 psi with an unknown flow rate. November 2006: Kane environmental directed the installation of four soil borings in order to verify remediation results, using an Air/Rotary drilling rig. Those results are included in the report to NMOCD dated December 01, 2006. June 2007: The number of active air-injection wells was decreased to six upon verification that the hydrocarbon concentration in the other areas were below the threshold values. June 2008: The subsurface material sampling was completed and RL's verified (Appendix E).

On April 05, 2019

Subsequent to the third release assigned (1RP-5686), SESI was consulted to

assess and remediate the Mattie Price Tank Battery.

On April 09, 2019 SESI personnel together with personnel from Osborn Heirs Company were on location to assign and flag the area for auger hole installation. The auger holes were advanced to the point of refusal. Soil samples were field tested intermittently for Chloride and Petroleum Hydrocarbons. The field results at Auger Hole #1 for TPH were 40 mg/kg, and chloride levels were <128 mg.kg; therefore, no further sampling was conducted at the sample point. Other soil samples were grabbed at surface, and one-foot increments, field tested, and packaged for laboratory confirmation. All samples were properly packaged, labeled, preserved, and transported to Cardinal Laboratories via Chain of Custody for analyses. The following constituents were analyzed: Chloride (CI Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The table below is a recap and tabulation of the results from the Cardinal Laboratories analyses for ease of reference (Appendix C):

Sample ID	Chloride	DRO	GRO	EXT DRO	BTEX
	EPA Method 300	EPA Method	EPA Method	EPA Method	EPA Method
	Anions	8015	8015	8015	8021
AH-2	768	37500	14200	4600	164
Surface					
AH-2 1.5 ft	96.0	669	66.9	77.2	2.13
AH-3	800	12800	37800	4700	153
Surface					
AH-3 1ft	96.	49.9	453	55.4	1.95
AH-4	784	11900	34100	5280	157
Surface					
AH-4 1ft	80.	49.2	418	81.7	2.28

Based on the confirmed laboratory results from Cardinal Laboratories and auger refusal, steps were taken to initiate soil boring activity.

On May 28, 2019 SESI personnel revisited the site in order to flag the location for New Mexico One Call clearance. SESI personnel observed that the air sparging system had been removed. A call was placed to Mr. Cunningham with Osborn Heirs Company to confirm the removal. SESI personnel were told that the lease operator had received a landowner complaint that initiated the removal of the system.

On July 17, 2019 SESI personnel, together with personnel and equipment from Enviro-drill revisited the site in order to extract soil borings for confirmation of vertical extent. Four (4) sites were designated in the proximity of the spill areas (Figure 2). The boring extractions were preserved, packaged, and transported to Cardinal Laboratories via Chain of Custody for analysis of the following constituents: Chloride (CI Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The table below is a recap and tabulation of the results from the Cardinal Laboratories analyses for ease of reference (Appendix C):

All four borings were drilled to a depth of 32 feet to confirm no impacts at depth from this or earlier spills. In addition, B-4 was located as close as possible to the previous air sparging area. Remaining piping prevented direct access to area.

Sample ID	BTEX	Chloride	GRO	DRO	EXT DRO
B-1 0-2'	.056	576	<10.0	1840	460
B-1 BASE	1.39	304	806	6800	647
B-1 5-7'	.585	80	84.7	1210	146
B-1 10-12'	<0.300	48.0	<10.0	<10.0	<10.0
B-1 15-17'	<0.300	48.0	<10.0	12.2	<10.0
B-1 30-32'	<0.300	16.0	<10.0	<10.0	<10.0
B-2 2'	11.1	80.0	496	1050	98.3
B-2 5-7'	<0.300	48.0	<10.0	69.7	<10.0
B-2 10-12'	<0.300	160	<10.0	2570	497
B-2 15-17'	<0.300	176	<10.0	13.7	<10.0
B-2 20-22'	<0.300	160	<10.0	<10.0	<10.0
B-2 25-27'	<0.300	80.0	<10.0	<10.0	<10.0
B-2 30-32'	<0.300	48.0	<10.0	<10.0	<10.0
B-3 0-2'	<0.300	912	<10.0	146	18.7
B-3 2-4'	<0.300	288	<10.0	15.2	<10.0
B-3 5-7'	<0.300	32.0	<10.0	19.7	<10.0
B-3 10-12'	<0.300	48.0	<10.0	20.5	<10.0
B-3 15-17'	<0.300	32.0	<10.0	14.2	<10.0
B-3 25-27'	<0.300	32.0	<10.0	<10.0	<10.0
B-3 30-32'	<0.300	80.0	<10.0	<10.0	<10.0
B-4 0-2'	<0.300	16.0	<10.0	511	178
B-4 2-4'	<0.300	32.0	<10.0	10.4	<10.0
B-4 4-6'	<0.300	32.0	<10.0	725	197
B-4 10-12'	<0.300	16.0	<10.0	142	38.2
B-4 15-17'	<0.300	16.0	<10.0	<10.0	<10.0
B-4 20-22'	<0.300	16.0	<10.0	<10.0	<10.0
B-4 25-27'	<0.300	16.0	<10.0	<10.0	<10.0
B-4 30-32'	<0.300	32.0	<10.0	<10.0	<10.0

VI. Action Plan

Based upon the return results of the soil bore analyses from Hall Laboratories; Chlorides were not the constituency of concern. Upon further review of the Cane Environmental report dated March 2005 as was submitted to the NMOCD, SESI advanced soil borings labeled B-1 and B-2 respectively, in the same proximity as "Test Point A" in the Cane Environmental analysis. The subsequent spills were in the same proximity, so a further delineation of this area was deemed prudent in order to confirm previous remediation efforts, as well as vertical delineation. SESI proposes to confirm the horizontal remediation through sidewall soil samples, simultaneously through out the removal of impacted soils. Furthermore, SESI proposes the removal of impacted soils to the extent that Petroleum Organics are <100 ppm, as will be confirmed with bottom soil samples, leaving 4 ft. of clean surface material. The battery pad area is comprised of fine grade caliche. Upon, completion of remedial activity, SESI will restore the pad area with comparable material and return to grade. All impacted soil will be transported to an NMOCD approved facility for disposal and confirmed with disposal manifests.

All closure documentation will be drafted and submitted to the proper parties of concern.

VII. Figures & Appendices

Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendix A – C-141

Appendix B – Groundwater

Appendix C – Analytical Results

Appendix D – Photo Documentation

Appendix E – Correspondence

Figure 1 Vicinity Map

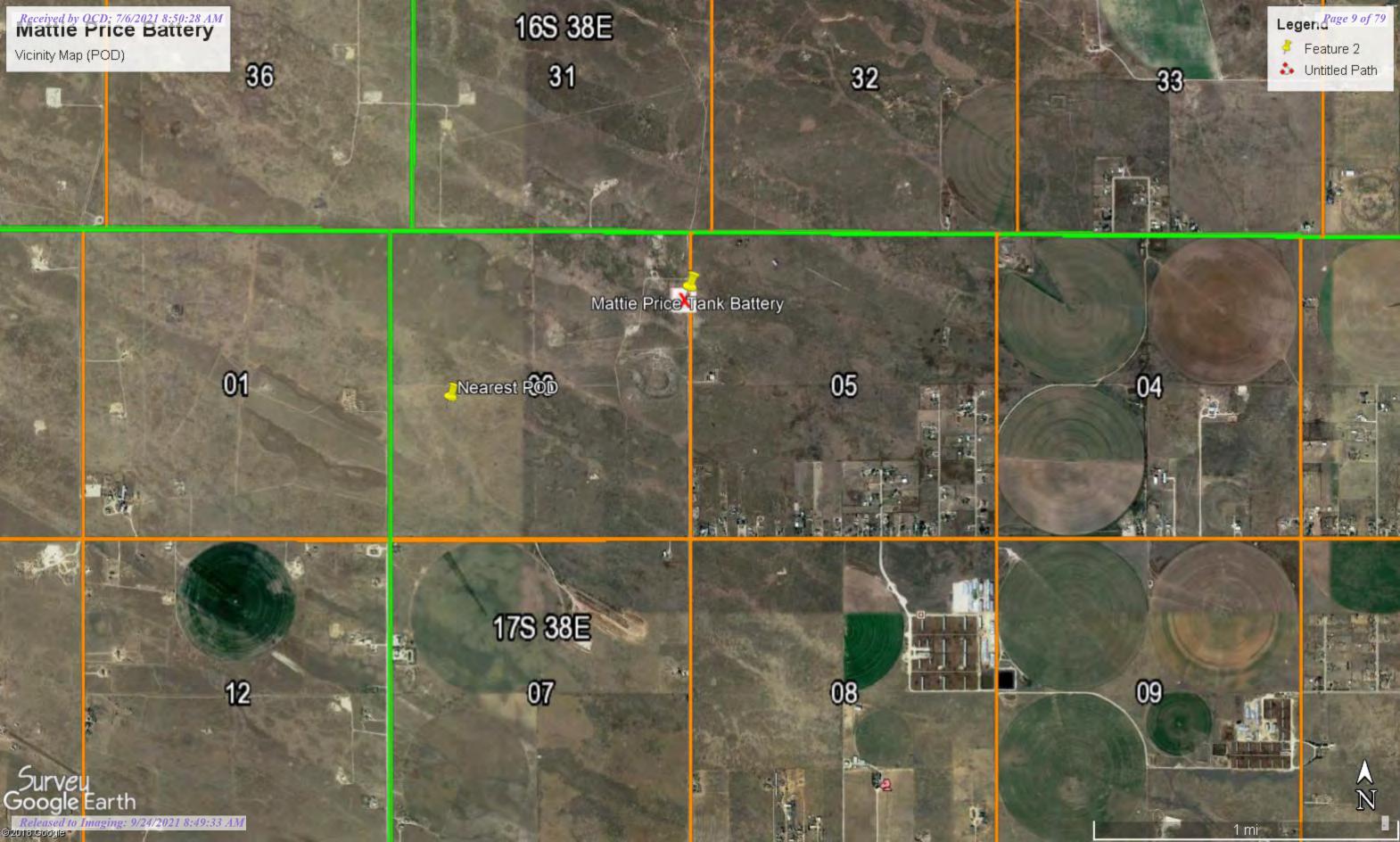


Figure 2 Site Plan



Appendix A 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 Department

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

	Form C-141
	Revised August 24, 2018
S	Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Osborn Heirs Company				OGRID	16616			
Contact Name: Gary Cunningham					Contact Te	lephone (210) 8	826-0700 ext. 222	
Contact email: garyc@osbornheirs.com					Incident #	(assigned by OCD)		
Contact mail	ing address:	P.O. Box 17968,	San Antonio, Te	xas 78	217			
			Location	of R	elease So	ource		
Latitude _3	2.867	5			Longitude _ grees to 5 decim	103.17	97	
			(1471D 05 m acc	cimai acg	5, ccs 10 5 accim	an piaces)		
Site Name Mattie Price					Site Type T Crude Oil	ank Battery		
Date Release	Discovered	April 5, 2019		3	API# (if applicable) N/A (tank battery) 30-025-23439			
Unit Letter	Section	Township	Danca		Cours		1'	
		•	Range		Coun	ıy		
Н	06	175	38E		Lea			
Surface Owner	r: State	Federal Tr	ibal ☑ Private (Λ	Name: <u>]</u>	Phillip Berry	<u>/</u>)
			Nature and	l Vol	ume of F	Release		
	Materia	al(s) Released (Select a	ll that annly and attach	calculati	ons or specific	iustification for the	volumes provided below)	
Crude		Volume Release			ons or specime		vered (bbls) 6 barre	ls
Produced Water Volume Released (bbls)					Volume Recovered (bbls)			
Is the concentration of total dissolved so in the produced water >10,000 mg/l?				ds (TDS)	Yes No	0		
Condensate Volume Released (bbls)					Volume Recov	vered (bbls)		
Natural Gas Volume Released (Mcf)					Volume Recov	vered (Mcf)		
Other (describe) Volume/Weight Released (provide units)				Volume/Weigl	ht Recovered (provide	units)		

Cause of Release:

The Mattie Price #1, and inactive well, began flowing causing the stock tank to overflow. The release was completely contained within the secondary containment area.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	1
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

If YES, for what reason(s) does the responsible party consider this a major release?

☐ Yes ☐ No	
If YES, was immediate notice given to the OCD? By who	om? To whom? When and by what means (phone, email, etc)?
Initi	ial Response
The responsible party must undertake the following actions im	amediately unless they could create a safety hazurd that would result in injury
The source of the release has been stopped.	
The impacted area has been secured to protect human heal	Ith and the environment
Released materials have been contained via the use of bern	
	•
All free liquids and recoverable materials have been removed.	
If all the actions described above have <u>not</u> been undertaken, ex	xplain why:
	nence remediation immediately after discovery of a release. If remediation
	medial efforts have been successfully completed or if the release occurred IAC), please attach all information needed for closure evaluation.
	to the best of my knowledge and understand that pursuant to OCD rules and ase notifications and perform corrective actions for releases which may endanger
public health or the environment. The acceptance of a C-141 report b	by the OCD does not relieve the operator of liability should their operations have
	c a threat to groundwater, surface water, human health or the environment. In ator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	02.100pp.n
Printed Name: Gary Cunningham	Title: Superintendent
Three Paints	- Superinsylvani
Signature: Harry O. Cunningham	Date: April 12, 2019
email: garyc@osbornheirs.com	Telephone: (210) 826-0700 ext 222

Date: _

OCD Only
Received by:

Received by OCD: 7/6/2021 8:50:28 AM
Form C-141 State of New Mexico
Page 3 Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗓 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	X Xes No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗓 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗓 No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vecontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. Characterization Report Checklist: Each of the following items must be included in the report.	ertical extents of soi
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring we	ells.
Field data Data table of soil contaminant concentration data	
X Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs	
Photographs including date and GIS information	
X Topographic/Aerial maps X Laboratory data including chain of custody	
El Daboratory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 7/6/2021 8:50:28 AM Form C-141 State of New Mexico

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Oil Conservation Division

	rage 10 0j /3
Incident ID	
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain re public health or the environment. The acceptance of a C-141 report failed to adequately investigate and remediate contamination that p	ete to the best of my knowledge and understand that pursuant to OCD rules and elease notifications and perform corrective actions for releases which may endanger it by the OCD does not relieve the operator of liability should their operations have cose a threat to groundwater, surface water, human health or the environment. In perator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Gary Cunningham. Signature: Day of Cunningham	Date:April 12, 2019
email: _garyc@osbornheirs.com	Telephone: (210) 826-0700 ext 222
OCD Only	
Received by:	Date:

Received by OCD: 7/6/2021 8:50:28 AM Form C-141 State of New Mexico Page 5

Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

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Remediation Plan

 X Detailed description of proposed remediation technique X Scaled sitemap with GPS coordinates showing delineation points X Estimated volume of material to be remediated X Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC X Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. Printed Name: Gary Cunningham Title: Superintendent Date: 04/12/2019 Email: garyc@osbornheirs.com Telephone: (210) 826-0700 ext 222
OCD Only
Received by: Date:
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:

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)

Code

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD

Sub-Q Q Q

basin County 64 16 4 Sec Tws Rng 2 1 3 06 17S 38E

X Y 669072 3637520* --

Water DepthWellDepthWater Column

Average Depth to Water:

Minimum Depth:

75 feet

Maximum Depth:

75 feet 75 feet

Record Count: 1

POD Number

L 00904

PLSS Search:

Section(s): 06

Township: 17S

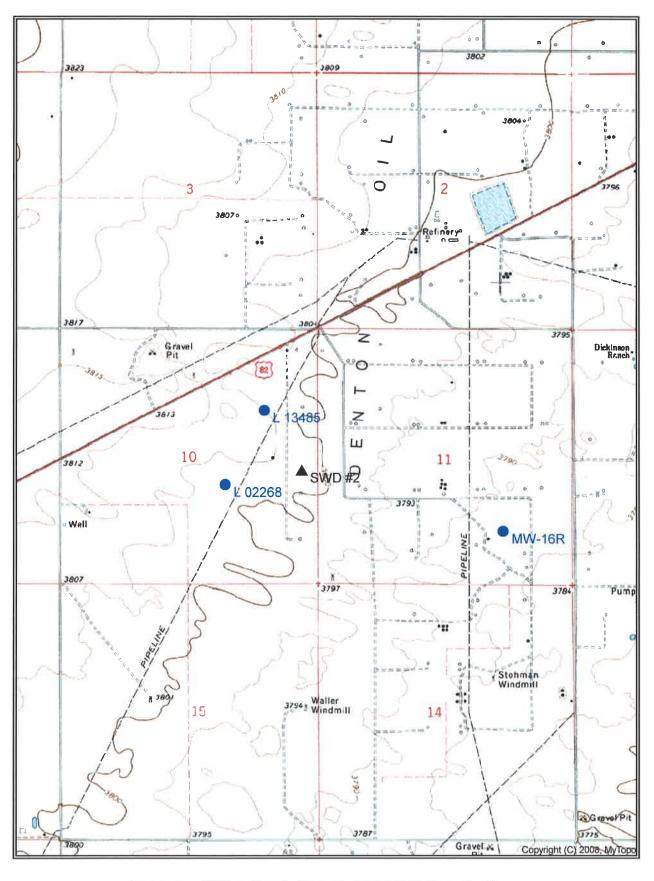
Range: 38E

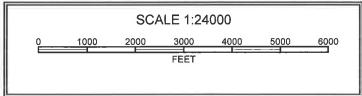
*UTM location was derived from PLSS - see Help

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

9/19/19 1:32 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER





Appendix C Analytical Results



April 12, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OSB - 19 - 001

Enclosed are the results of analyses for samples received by the laboratory on 04/09/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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 Project: OSB - 19 - 001 703 East Clinton Project Number: NONE GIVEN

Hobbs NM, 88240 Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 12-Apr-19 14:55

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH - 2 SURFACE	H901292-01	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 2 1.5'	H901292-02	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 3 SURFACE	H901292-03	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 3 1'	H901292-04	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 4 SURFACE	H901292-05	Soil	09-Apr-19 00:00	09-Apr-19 14:30
AH - 4 1'	H901292-06	Soil	09-Apr-19 00:00	09-Apr-19 14:30

BTEX 8021 results did not confirm via 8260. Results were about 5x higher via 8021 method vs 8260. This was due to the large amount of interfering compounds present in the samples.

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 aring any other cause whistoever 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 damage 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 sur 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. Keine



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 12-Apr-19 14:55

AH - 2 SURFACE H901292-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	768		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								S-04
Benzene*	<1.00		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	QM-07
Toluene*	27.6		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	QM-07
Ethylbenzene*	19.4		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	QM-07
Total Xylenes*	118		3.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	QM-07
Total BTEX	164		6.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			182 %	73.3	-129	9041001	MS	11-Apr-19	8021B	
Petroleum Hydrocarbons by GC	FID									S-06
GRO C6-C10*	14200		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
DRO >C10-C28*	37500		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
EXT DRO >C28-C36	4600		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctane			656 %	41-	142	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			1090 %	37.6	-147	9040912	MS	09-Apr-19	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN

Project Manager: Bob Allen Fax To: (575) 393-4388 Reported: 12-Apr-19 14:55

AH - 2 1.5' H901292-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	< 0.050		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Toluene*	0.105		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Ethylbenzene*	0.242		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total Xylenes*	1.78		0.150	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total BTEX	2.13		0.300	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)))		151 %	73.3	-129	9041001	MS	10-Apr-19	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	66.9		10.0	mg/kg	1	9040912	MS	09-Apr-19	8015B	
DRO >C10-C28*	669		10.0	mg/kg	1	9040912	MS	09-Apr-19	8015B	
EXT DRO >C28-C36	77.2		10.0	mg/kg	1	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctane			118 %	41-	142	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			130 %	37.6	-147	9040912	MS	09-Apr-19	8015B	

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Celey D. Keene



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 12-Apr-19 14:55

AH - 3 SURFACE

H901292-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	800		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	<1.00		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Toluene*	22.7		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Ethylbenzene*	18.2		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Total Xylenes*	112		3.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Total BTEX	153		6.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID))	·	181 %	73.3	-129	9041001	MS	11-Apr-19	8021B	
Petroleum Hydrocarbons by C	GC FID									S-06
GRO C6-C10*	12800		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
DRO >C10-C28*	37800		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
EXT DRO >C28-C36	4700		50.0	mg/kg	5	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctane			642 %	41	142	9040912	MS	09-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			1090 %	37.6	-147	9040912	MS	09-Apr-19	8015B	

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Celey D. Keene



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 12-Apr-19 14:55

AH - 3 1'

H901292-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	< 0.050		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Toluene*	0.084		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Ethylbenzene*	0.234		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total Xylenes*	1.63		0.150	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total BTEX	1.95		0.300	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		150 %	73.3	-129	9041001	MS	10-Apr-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	49.9		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
DRO >C10-C28*	453		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
EXT DRO >C28-C36	55.4		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctane			105 %	41-	142	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			99.9 %	37.6	-147	9041004	MS	10-Apr-19	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 12-Apr-19 14:55

AH - 4 SURFACE

H901292-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	784		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								S-04
Benzene*	0.508		0.500	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Toluene*	24.0		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Ethylbenzene*	18.8		1.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Total Xylenes*	114		3.00	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Total BTEX	157		5.50	mg/kg	1000	9041001	MS	11-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			182 %	73.3	-129	9041001	MS	11-Apr-19	8021B	
Petroleum Hydrocarbons by GC	C FID									S-06
GRO C6-C10*	11900		50.0	mg/kg	5	9041004	MS	10-Apr-19	8015B	
DRO >C10-C28*	34100		50.0	mg/kg	5	9041004	MS	10-Apr-19	8015B	
EXT DRO >C28-C36	5280		50.0	mg/kg	5	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctane			1680 %	41-	142	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			986 %	37.6	-147	9041004	MS	10-Apr-19	8015B	

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Celey D. Keene

Reported:

12-Apr-19 14:55



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

AH - 4 1' H901292-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	9040914	AC	10-Apr-19	4500-Cl-B	
Volatile Organic Compounds l	by EPA Method	8021								S-04
Benzene*	< 0.050		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Toluene*	0.108		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Ethylbenzene*	0.274		0.050	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total Xylenes*	1.90		0.150	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Total BTEX	2.28		0.300	mg/kg	50	9041001	MS	10-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		158 %	73.3	-129	9041001	MS	10-Apr-19	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	49.2		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
DRO >C10-C28*	418		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
EXT DRO >C28-C36	81.7		10.0	mg/kg	1	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctane			103 %	41-	142	9041004	MS	10-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			94.8 %	37.6	-147	9041004	MS	10-Apr-19	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 12-Apr-19 14:55

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9040914 - General Prep - Wet Chem										
Blank (9040914-BLK1)				Prepared &	: Analyzed:	09-Apr-19				
Chloride	ND	16.0	mg/kg							
LCS (9040914-BS1)				Prepared &	Analyzed:	09-Apr-19				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9040914-BSD1)				Prepared &	Analyzed:	09-Apr-19				
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	

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%REC

Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Spike

Source

Reported: 12-Apr-19 14:55

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9041001 - Volatiles										
Blank (9041001-BLK1)				Prepared &	ե Analyzed:	10-Apr-19)			
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)	0.0987		mg/kg	0.100		98.7	73.3-129			
LCS (9041001-BS1)				Prepared &	ե Analyzed:	10-Apr-19)			
Benzene	1.93	0.050	mg/kg	2.00		96.4	72.2-131			
Toluene	1.97	0.050	mg/kg	2.00		98.4	71.7-126			
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.1	68.9-126			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.6	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.106		mg/kg	0.100		106	73.3-129			
LCS Dup (9041001-BSD1)				Prepared &	k Analyzed:	10-Apr-19)			
Benzene	2.08	0.050	mg/kg	2.00		104	72.2-131	7.46	6.91	QR-0
Toluene	2.14	0.050	mg/kg	2.00		107	71.7-126	8.17	7.12	QR-0
Ethylbenzene	2.19	0.050	mg/kg	2.00		110	68.9-126	9.97	7.88	QR-0
Total Xylenes	6.48	0.150	mg/kg	6.00		108	71.4-125	10.1	7.46	QR-0
Surrogate: 4-Bromofluorobenzene (PID)	0.113		mg/kg	0.100		113	73.3-129			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: OSB - 19 - 001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 12-Apr-19 14:55

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9040912 - General Prep - Organics

Blank (9040912-BLK1)				Prepared & Ana	lyzed: 09-Apr-19				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0	103	41-142			
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0	99.9	37.6-147			
LCS (9040912-BS1)				Prepared & Ana	lyzed: 09-Apr-19				
GRO C6-C10	203	10.0	mg/kg	200	101	76.5-133			
DRO >C10-C28	207	10.0	mg/kg	200	104	72.9-138			
Total TPH C6-C28	410	10.0	mg/kg	400	102	78-132			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0	109	41-142			
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0	106	37.6-147			
LCS Dup (9040912-BSD1)				Prepared & Ana	lyzed: 09-Apr-19				
GRO C6-C10	198	10.0	mg/kg	200	99.0	76.5-133	2.39	20.6	
DRO >C10-C28	200	10.0	mg/kg	200	100	72.9-138	3.33	20.6	
Total TPH C6-C28	398	10.0	mg/kg	400	99.6	78-132	2.87	18	
Surrogate: 1-Chlorooctane	53.3		mg/kg	50.0	107	41-142			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0	103	37.6-147			

Batch 9041004 - General Prep - Organics

	Prepared & Analyzed: 10-Apr-19)
10.0 mg/kg		
10.0 mg/kg		
10.0 mg/kg		
mg/kg	50.0 98.5	41-142
mg/kg	50.0 95.1	37.6-147
	10.0 mg/kg 10.0 mg/kg mg/kg	10.0 mg/kg 10.0 mg/kg mg/kg 50.0 98.5

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240

Analyte

Project: OSB - 19 - 001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Spike

Level

Source

Result

%REC

Reported: 12-Apr-19 14:55

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

LCS (9041004-BS1)				Prepared & Anal	yzed: 10-Apr-19)			
GRO C6-C10	209	10.0	mg/kg	200	104	76.5-133			
DRO >C10-C28	194	10.0	mg/kg	200	97.2	72.9-138			
Total TPH C6-C28	403	10.0	mg/kg	400	101	78-132			
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0	110	41-142			
Surrogate: 1-Chlorooctadecane	49.1		mg/kg	50.0	98.1	37.6-147			
LCS Dup (9041004-BSD1)				Prepared & Anal	yzed: 10-Apr-19)			
GRO C6-C10	211	10.0	mg/kg	200	105	76.5-133	0.845	20.6	
DRO >C10-C28	202	10.0	mg/kg	200	101	72.9-138	3.96	20.6	
Total TPH C6-C28	413	10.0	mg/kg	400	103	78-132	2.36	18	
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0	110	41-142			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0	104	37.6-147			

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S-06



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Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 14 of 14

aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager: Bob Allen	Solutions	BO #:		ANALYSIS REQUEST	
	7	# C #:			
Address: 703 East Clinton, PO Box 1613		Company: Same			
City: Hobbs State: NM	Zip: 88240	Attn:			
Phone #: 575 397-0510 Fax #: 575	393-4388	Address:	}		
Project #: 058-19-00/ Project Owner:	ner:	City:	Ex		
Project Name:		State: Zip:			
Project Location: کونک کام		Phone #:	21.		
Sampler Name: 50 %. Line		Fax#:	Si Si	*	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			
Lab I.D. Sample I.D.	RAB OR (C)OMP ONTAINERS DUNDWATER STEWATER L	HER: D/BASE: / COOL HER:	TPH BTEX CHUUD		
1 ifit - 2 Sunface	<	5	XXX		*
2 AK-2 15 F	الا ا	100 pd/pd			
3 AN-3 sugar	γ ,	100 Pallog			
4 if 8 th 4	<u>s</u> ,	× N/X) (
5 All-4 Souten	۲.	× 04/69			
41 P.HV 9	\rac{1}{2}	balta X	X X X		
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	ાં Received By:	11/10	ult: ☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:	
Relinquished By: Times OZSO Pur	Received By:	Markye		à	
Time:			ě		
Delivered By: (Circle One)	Sample Condition Cool Intact	ition CHECKED BY: (Initials)		= ;	
Sampler - UPS - Bus - Other: 4. 2	#97 Pres Pres	es X			



July 26, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: OSB - 19 - 001

Enclosed are the results of analyses for samples received by the laboratory on 07/19/19 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Reported: 07/26/2019 Sampling Type: Soil
Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 1 0-2', 1' (H902499-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	0.056	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	<0.300	0.300	07/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	1840	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	460	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	109 :	% 41-142	!						
Surrogate: 1-Chlorooctadecane	152	% 37.6-14	7						

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019 Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 1 0-2', BASE (H902499-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	GC-NC
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	1.39	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	1.39	0.300	07/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	194	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	806	50.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	6800	50.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	647	50.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	192	% 41-142	?						
Cumpo cata 1 Chlana a stada ana	201	0/ 27 6 1 4	17						

Surrogate: 1-Chlorooctadecane 301 % 37.6-147

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker Project Location: LEA CO NM

Sample ID: B - 1 5-7' (H902499-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	0.585	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	0.585	0.300	07/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	140	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	84.7	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	1210	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	146	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	123	% 41-142	?						
Surrogate: 1-Chlorooctadecane	144	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil
Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker
Project Location: LEA CO NM

Sample ID: B - 1 10-12' (H902499-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	<0.300	0.300	07/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 1 15-17' (H902499-05)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	<0.300	0.300	07/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	12.2	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	?						
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019 Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 1 30-32' (H902499-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	203	102	200	0.529	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	104 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	109 %	6 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: LEA CO NM

ma/ka

Sample ID: B - 2 2' (H902499-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.349	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	3.31	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	3.41	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	4.07	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	11.1	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	496	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	1050	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	98.3	10.0	07/24/2019	ND					
Surrogate: 1-Chlorooctane	149	% 41-142	,						
Surrogate: 1-Chlorooctadecane	136	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019 Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 2 5-7' (H902499-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	69.7	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/24/2019	ND					
Surrogate: 1-Chlorooctane	108 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	117 9	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil Project Name: OSB - 19 - 001 Sampling Condition:

Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: LEA CO NM

Sample ID: B - 2 10-12' (H902499-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	2570	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	497	10.0	07/24/2019	ND					
Surrogate: 1-Chlorooctane	115 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	167	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil OSB - 19 - 001

Project Name: Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: LEA CO NM

Sample ID: B - 2 15-17' (H902499-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	13.7	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/24/2019	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019 Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 2 20-22' (H902499-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	<10.0	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/24/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	?						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil Project Name: OSB - 19 - 001 Sampling Condition:

Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: LEA CO NM

Sample ID: B - 2 25-27' (H902499-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2019	ND	203	102	200	0.529	
DRO >C10-C28*	<10.0	10.0	07/24/2019	ND	193	96.5	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	07/24/2019	ND					
Surrogate: 1-Chlorooctane	113 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	117 9	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019 Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Applyzod By: MC

Project Location: LEA CO NM

Sample ID: B - 2 30-32' (H902499-13)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	141 5	% 41-142)						
Surrogate: 1-Chlorooctadecane	141 9	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 3 0-2' (H902499-14)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	146	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	18.7	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	99.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: LEA CO NM

ma/ka

Sample ID: B - 3 2-4' (H902499-15)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	15.2	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142	•						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: LEA CO NM

ma/ka

Sample ID: B - 3 5-7' (H902499-16)

RTFY 8021R

Result <0.050 <0.050 <0.050	Reporting Limit 0.050 0.050	Analyzed 07/25/2019	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050		07/25/2019	ND	2.00				
	0.050			2.00	100	2.00	1.33	
<0.050		07/25/2019	ND	2.06	103	2.00	1.17	
	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
<0.300	0.300	07/25/2019	ND					
104 9	73.3-12	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	07/22/2019	ND	400	100	400	3.92	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
19.7	10.0	07/23/2019	ND	182	91.2	200	2.94	
<10.0	10.0	07/23/2019	ND					
104 9	% 41-142							
	32.0 mg/ Result <10.0 19.7 <10.0	32.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 19.7 10.0 <10.0 10.0	32.0 16.0 07/22/2019 mg/kg Analyze Result Reporting Limit Analyzed <10.0	32.0 16.0 07/22/2019 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	32.0 16.0 07/22/2019 ND 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	32.0 16.0 07/22/2019 ND 400 100 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	32.0 16.0 07/22/2019 ND 400 100 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed By: MS BS % Recovery True Value QC <10.0	32.0 16.0 07/22/2019 ND 400 100 400 3.92 mg/kg

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Celeg D. Freene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil OSB - 19 - 001

Project Name: Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: LEA CO NM

Sample ID: B - 3 10-12' (H902499-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 5	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	190	95.2	200	1.01	
DRO >C10-C28*	20.5	10.0	07/23/2019	ND	182	91.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	98.0	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	96.1	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

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

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 3 15-17' (H902499-18)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	2.00	100	2.00	1.33	
Toluene*	<0.050	0.050	07/25/2019	ND	2.06	103	2.00	1.17	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.94	96.8	2.00	1.58	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	6.18	103	6.00	2.04	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	14.2	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	80.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.6	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 3 25-27' (H902499-19)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	0.206	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	71.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	75.4	% 37.6-14	7						

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Celey D. Keine



Soil

Analytical Results For:

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

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Analyzed By: MC

Project Location: LEA CO NM

Sample ID: B - 3 30-32' (H902499-20)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	72.7	% 41-142	•						
Surrogate: 1-Chlorooctadecane	76.3	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 4, 0-2' (H902499-21)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	511	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	178	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	64.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	75.6	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: LEA CO NM

Sample ID: B - 4, 2-4' (H902499-22)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	10.4	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	61.7	% 41-142	•						
Surrogate: 1-Chlorooctadecane	64.1	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019 Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 4, 4-6' (H902499-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	725	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	197	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	69.1	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	83.5	% 37.6-14	7						

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Celeg D. Freene



Sample Received By:

07/17/2019

Tamara Oldaker

Analytical Results For:

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

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date:

Reported: 07/26/2019 Sampling Type: Soil
Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact

Project Location: LEA CO NM

NONE GIVEN

Sample ID: B - 4, 10-12' (H902499-24)

Project Number:

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	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	142	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	38.2	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	64.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	69.8	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 69.8 % 37.6-147

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Celeg D. Freene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil
Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker
Project Location: LEA CO NM

Analyzed By: MS

Sample ID: B - 4, 15-17' (H902499-25)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	65.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	68.8	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: LEA CO NM

Sample ID: B - 4, 20-22' (H902499-26)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	65.9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	69.3	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

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

Fax To: (575) 393-4388

 Received:
 07/19/2019
 Sampling Date:
 07/17/2019

 Reported:
 07/26/2019
 Sampling Type:
 Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: B - 4, 25-27' (H902499-27)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	66.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	68.8	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 07/19/2019 Sampling Date: 07/17/2019

Reported: 07/26/2019 Sampling Type: Soil

Project Name: OSB - 19 - 001 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: LEA CO NM

Sample ID: B - 4, 30-32' (H902499-28)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2019	ND	1.70	84.8	2.00	2.64	
Toluene*	<0.050	0.050	07/25/2019	ND	1.68	84.1	2.00	4.45	
Ethylbenzene*	<0.050	0.050	07/25/2019	ND	1.56	78.2	2.00	6.27	
Total Xylenes*	<0.150	0.150	07/25/2019	ND	5.02	83.6	6.00	6.25	
Total BTEX	<0.300	0.300	07/25/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2019	ND	185	92.3	200	4.28	
DRO >C10-C28*	<10.0	10.0	07/23/2019	ND	178	89.0	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	07/23/2019	ND					
Surrogate: 1-Chlorooctane	66.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	69.1	% 37.6-14	7						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

3.6€

Sample Condition
Cool Intact
GYes GYes
No No

CHECKED BY:

Time:

Page 31 of 33



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(EZE) 393-2306 EAX (575) 393-2476				4
Company Name: Safety and Environmental Solutions	utions B/14/1/6	[b] (G)	ANALYSIS F	REQUEST
	P.O. #:			
Address: 703 East Clinton, PO Box 1613	Company: S	Same		
Hobbs State: NM	Zip: 88240 Attn:			
le #: 575 397-0510 Fax #:	575 393-4388 Address:	<u></u>		
	City:	17		
۳ ۱	State: 2	Zip:		
Project Location: LEVINSTON	Phone #:	S	12	
Sampler Name: DAVI TEOLOP	Fax#:	1	ul.	
0	MATRIX PRESERV.	SAMPLING 30	R,	
Sample I.D.	E)RAB OR (C)OMP. CONTAINERS ROUNDWATER VASTEWATER OIL IL LUDGE THER: CID/BASE: CE / COOL	11116	BTE Chlor	
131.7.6-0 1-2	_ ; X	7/17 1247 7/17	\(\frac{\times}{\times}\)	
2 R-1 0-2' ROKE		1 1027		
× 5-7		1054		
		1050		
120		1104		
R-1 7		763		
,たたしる		in.		
8 5-7		1000		
E1-21 6		-		
10 R-12	G - X - X	7/10 1333 X X	/ X	
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afficates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such plants based upon any or me above services hereunder by Cardinal, regardless of whether such plants based upon any or me above services hereunder by Cardinal, regardless of whether such plants based upon any or me above services hereunder by Cardinal, regardless of whether such plants based upon any or me above service services. Phone Rest	Received By:	"	No.	
TY SO	Sommer Shak	REMARKS:	Yes UNO Add'I Fax #:	9
Relinquished By: Date:	Received By:			

Page 32 of 33



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

900

(575) 393-2326 EAX (575) 393-2476		
Company Name: Safety and Environmental Solutions	3)#L1#0	ANALYSIS REQUEST
no.	P.O. #:	
Address: 703 East Clinton, PO Box 1613	Company: Same	
City: Hobbs State: NM Zip: 88240	Attn:	
_{le} #: 575 397-0510 F	Address:	
100-19-001	City:	È Y
ame:	State: Zip:	
Project Location: LOUINCTON	Phone #:	
Sampler Name: NADIA (ROLD)		
	MATRIX PRESERV. SAMPLING	
Containers ROUNDWATER Lab I.D. Sample I.D.	OIL OIL LUDGE OTHER: CID/BASE: CE / COOL OTHER: DATE TIME	TPH(BY)
- #	X	XXX
12 22 25-27, 11	1344	7.7
13 2 4 3 X- 24	1-2	
A-4 8-8 H		
15	1430	
17 18-13	32.41	
	14%	
19 CA-57	1 1 1 1500	
20 13-2 30-32 611	X X X 7/17 1556 X	
ve remedy for any clain pever shall be deemed nages, including without	n antising whother based in contract of rort, state be instead to the amount person of the waived unless made in writing and received by Cardinal within 2 days rafter completion of the a trinitation, business interruptions, loss of use, or loss of profits incurred by clear, ints subsidiaries of the contract of the co	applicable 5.
Relinquished By: Time:	y: Phone Result: Fax Result: REMARKS:	Ilt: ☐ Yes ☒ No Add'I Phone #: ☐ Yes ☒ No Add'I Fax #:
Relinquished By: Date: Received By: Time:	y;	
Delivered By: (Circle One) 3.62 #57 Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY: Cool Intact (Initials) Pres Pres	3



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Safety and Environmental Solutions	olutions	01.75/6		ANALYSIS	REQUEST	
Project Manager:	Bob Allen		P.O. #:				
Address: 703 l	703 East Clinton, PO Box 1613		Company: Same				
city: Hobbs	os state: NM	Zip: 88240	Attn:	>			
le #:	7-0510 Fax #: 575	393-4388	Address:	ブ			
0	100	ā	City:	CX.			
me:			State: Zip:				
Project Location:	noton col		Phone #:		1 6		
Sampler Name:	であい つんじょう	O	Fax#:	P	6		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	りおい	Q1		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTI	Chlor		
11/2/2/1	3-4, 0-21	- i	×	XX Cassi	X		,
22		-		1600			
23	4/7,			18/3			
24	10-17			1620			
76	46-94			0.71			
27	1 25-27	-		7			
	R-4, 30-32	× 13	21/C X	1641 X X X	×.		
PLEASE NOTE: Liability and Da analyses, All claims including the	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any dalim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicancy said provided by Cardinal within 30 days effect completion of the applicance. All dalims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days effect completion of the applicance.	r any dalm arising whether based in contro e deemed waived unless made in writing a	act or tort, shall be firsted to the amount pa and received by Cardinal within 30 days aft	id by the client for the applicable			
Relinquished By:	Relinquished By: Date: 1/9/ Received By: Result:	Received By:	m is based upon any of the above stated re	Phone Result: Yes	No Add'l Phone #:		
Relinquished By:	Time:	Received By:	Medsel	ı	0.00		7
Delivered By: (Circle One) Sampler - UPS - Bus - Other	(Circle One) 3.62 #97	Sample Con Cool Intac	φ.		Ť		
ı	6	No	No - X				

Appendix D Site Photos

OSBORN HEIRS COMPANY MATTIE PRICE TANK BATTERY



Spill 3-19-14 Source







Impact Looking East (Same as 04/19/19 Incident)

OSBORN HEIRS COMPANY MATTIE PRICE TANK BATTERY



5-6-14 test trenches



Excavation 5-6-14



Impacted soil removal



Stockpile 5-6-14

OSBORN HEIRS COMPANY MATTIE PRICE TANK BATTERY



Spill Source 04-05-19



Spill Area



Impacted Area Looking East



Drill Rig- Soil Bore at source

Appendix E Correspondence



October 22, 2008

VIA Email

Wayne Price
Oil Conservation Division
1220 South St. Francis Drive
Sante Fe, NM 87505

RE: Summary of June 2008 Soil Sampling and Recommended Remediation Activities at the Mattie Price Tank Battery, (Unit A, Section 6, Township 17 South, Range 38 East), Lea County New Mexico

Dear Mr. Price:

This letter summarizes the June 2008 soil sampling activities and changes in the remediation program at the Mattie Price tank battery. The facility is owned and operated by Osborn Heirs Company (Osborn). The site is located in Section 6, Township 17S Range 38E, Lea County, New Mexico, at a global position of North 32° 52' 3.9", West 103° 10' 47.4".

Site activities began December 2004. Important milestones completed during the project include:

June 2005: The subsurface affected materials were delineated to below the threshold values. January 2006: Three monitoring wells that were installed in January 2006. Samples from the these wells verified that no groundwater impacts were present. The remediation threshold values of 10,000 mg/kg total petroleum hydrobons (TPH), 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene and xylenes (BTEX) were also finalized.

January 2006: 332 cubic yards of affected materials were excavated and properly disposed of at an off-site location.

January 2006: Eleven remediation wells were installed to access the affected zone between 10 and 25 feet. Sparge remediation was initiated using a household compressor at a pressure of 15 psi and an unknown flow rate.

June 2007: The number of active air-injection wells was decreased to six upon verification that the hydrocarbon concentrations in the other areas were below the threshold values.

June 2008: The subsurface material sampling activities described in this letter were completed.

Previous sampling had established that the location did not have benzene or the BTEX (benzene, toluene, ethylbenzene and toluene) constituents above the threshold values. Two confirmatory subsurface samples were collected from the 12.5-to-15 and 17.5-to-20-foot intervals at the

Mr Wayne Price October 22, 2008 Page 2

location shown on Figure 1. The location, and the two intervals from it, were selected because it had historically contained hydrocarbons above the threshold values.

The boring was advanced to a total depth of 20 feet using hollow-stem auger. The materials encountered were generally hard caliche. Drilling became very difficult below 10 feet. The materials in the affected zone did not exhibit substantial hydrocarbon effects based upon visual and olfactory evidence.

The two samples were analyzed for total petroleum hydrocarbons in the gasoline, diesel and oil ranges using method TX 1005. The results are summarized in Table 1 along with the historical samples from the same location. The results indicate that the residual TPH remains above the threshold values and, in fact, the concentrations have not declined since the system was installed.

Kane will convert the system from a low-pressure, low-volume pressure to a mid-vacuum, high-volume soil vapor extraction (SVE) system. This conversion will be accomplished by by replacing the household compressor with a commercial blower that is capable of a much higher flow volume at a vacuum of 30 to 60 inches of water. This system will come on-line within the next 30 days.

The system will be run until March 2009 when the additional samples will be collected from the same intervals at the same approximate location and analyzed for TPH using the TX 1005 methodology. The site will be closed if the residual concentrations are below the 1,000 mg/kg NMOCD standard.

Do not hesitate to contact me at (303) 638-0001, or at stewartmike@yahoo.com if you have any questions or comments. Please forward all written correspondence for this site investigation plan to me at the following address:

Michael Stewart 264 Blue Spruce Drive Evergreen, Colorado 80439 303.638-0001 stewartmike@yahoo.com

Sincerely,

Michael H. Stewart, PE, CPG

Mechael H. Stewart

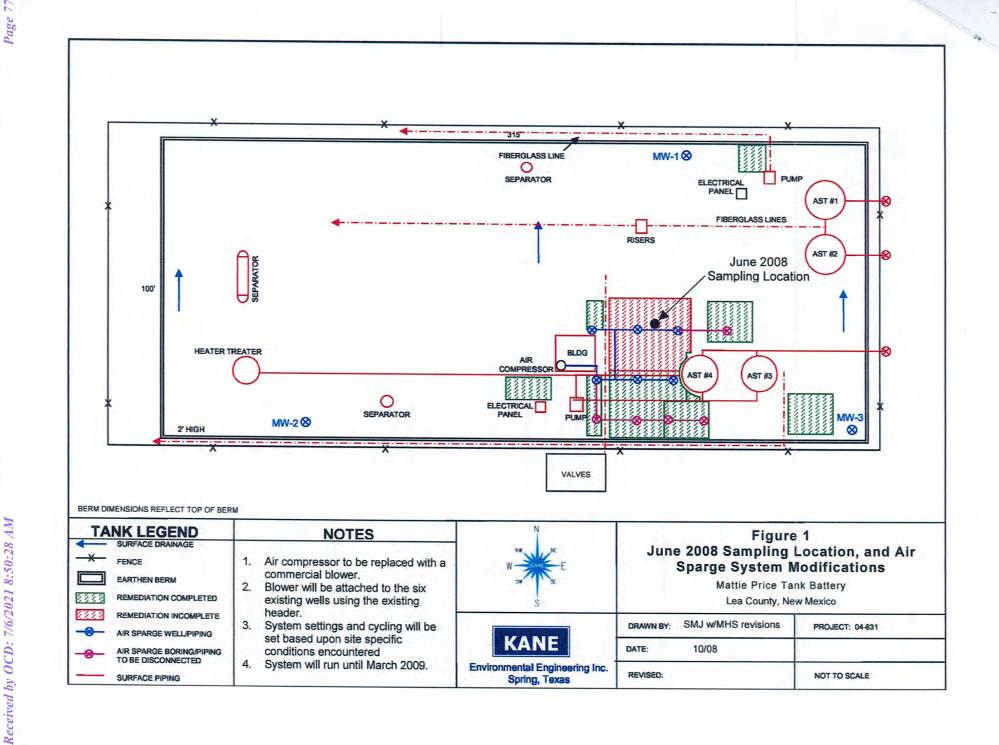
CC: Larry Johnson, NMOCD, Hobbs New Mexico Joyce Swayze, Osborn Heirs Company

TABLE 1
MATTIE PRICE TANK BATTERY
MPB-10 SAMPLE RESULTS FROM THE 12.5-15 AND 17.5-20 FOOT INTERVALS

		TPH GRO	TPH-DRO	TPH-ORO	TPH
	Date	C6-C12	C12-C28	C28-C35	C6-C35
Threshold Standards		1,000			1,000
Sample ID					
MPB-10 12.5-15	11/06	1550	3310	92.4	4950
MPB-10 12.5-15.0	6/08	1920	3150	350	5420
MPB-10 17.5-20.0	12/04	771			2250
MPB-10 17.5-20	11/06	534	1250	36.7	1820
MPB-10 17.5-20.0	6/08	1030	2230	245	3510

Bold values exceed the applicable threshold standard.

Previous sampling established the these materials were below the benzene and BTEX threshold standards.



Page 78 of 79 Incident ID NRM1926758725 District RP Facility ID Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 X Detailed description of proposed remediation technique X Scaled sitemap with GPS coordinates showing delineation points X Estimated volume of material to be remediated X Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. Printed Name:Gary Cunningham Title:Superintendent Date:04/12/2019
email: garyc@osbornheirs.com Telephone: (210) 826-0700 ext 222
OCD Only
Received by: Robert Hamlet Date: 9/24/2021
Approved
Signature: Robert Hamlet Date: 9/24/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 34904

CONDITIONS

Operator:	OGRID:
Safety & Environmental Solutions, Inc.	329088
PO Box 1613	Action Number:
Hobbs, NM 88240	34904
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Cr	eated	Condition	Condition
Ву	/		Date
rha	amlet	The Workplan/Remediation Plan is approved with the following conditions: Sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100	9/24/2021
		mg/kg TPH. Please collect confirmation samples, representing no more than 200 ft2. If rock refusal hinders delineation/excavation, use a hydrovac to clean contaminated soil off rock. After rock	
		surface is clean, layer rock with microbial strains to digest organics and hydrocarbons if present. Back-fill with clean material.	