

Closure Report

September 16, 2019

Re: Cedar Lake Federal CA 716H

API# 30-015-40913 Case # 2RP-5301

To: Robert Hamlet

New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department

811 S. 1st Street Artesia, NM 88210

On 3/04/2019 a release occurred due to a 3/8 inch stainless steel line at the well head froze resulting in the line to come apart. An initial C-141 was sent to NMOCD and approved by NMOCD on 3/20/2019. The Cedar Lake Federal CA 716H is located east of Loco Hills in unit letter A section 7 township 17S range 31E (GPS Coordinates: 32.85425, -103.90390). A groundwater study was conducted utilizing the NMOSE and USGS sites to search for groundwater wells in the vicinity of the release site. According to the USGS and NMOSE there are no wells in township 17S range 31E. It is common knowledge that there is no groundwater in township 17S and range 31E. The village of Loco Hills water source is the double eagle water pipeline which source of water is on top of the cap-rock located east of the township and range.

The release flow path shares the path found in a previous release associated with the Cedar Lake Federal CA 737H. The release area was remediated at the same time as the Cedar Lake Federal CA 737H. Final five point bottom and wall samples were collected in conjunction with the NMOCD approved remediation plan for the Cedar Lake Federal CA 737H (2RP-4972). All samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The following points BFC 21, 23, 26, and 28 were further excavated to depths of 3 inches to 1 foot. Once laboratory results were below table one standards for releases greater than 100 feet to groundwater the release area was backfilled with clean imported caliche and contoured to the surrounding area. All excavated material was hauled to an NMOCD approved facility.

Apache Corporation has remediated the release to below table one closure standards for releases greater than 100 feet to groundwater and respectfully request that 2RP-5301 be closed.

Enclosed: C-141, groundwater data, maps, data table, laboratory results, and photos. Submitted by;

Bruce Baker

Invironmental Technician larry.baker@apachecorp.com
Cell# 432-631-6982
Off# 575-393-7106

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

Incident ID	NAB1907931810
District RP	2RP-5301
Facility ID	
Application ID	pAB1907929779

Release Notification

Responsible Party

			Kesp	onsible raity	1
Responsible	Party Ap	ache Corporation	1	OGRID	873
Contact Nam	ie B	ruce Baker		Contact Te	lephone 432-631-6982
Contact ema	il laı	ry.baker@apac	hecorp.com	Incident #	(assigned by OCD) NAB1907931810
Contact mail	ing address	2350 W. Marla	nd BLVD Hobb	s, NM 88240	
<u> </u>				of Release So	ource
Latitude	32.8	35425		Longitude _	-103.90390
			(NAD 83 in dec	cimal degrees to 5 decim	al places)
Site Name	Cedar	Lake Federal	CA 716H	Site Type	Oil Well
Date Release		3/4/201		API# (if app	
					00-013-40313
Unit Letter	Section	Township	Range	Coun	ty
Α	7	178	31E	Edd	у
	Materia	Federal Tr	Nature and	Volume of F	justification for the volumes provided below)
☑ Crude Oil		1	d (bbls) 30 barr	rels	Volume Recovered (bbls) 27 barrels
☑ Produced	Water	Volume Release	^{d (bbls)} 45 bar	rels	Volume Recovered (bbls) 18 barrels
		Is the concentrat	ion of dissolved c	hloride in the	☑ Yes ☐ No
Condensa Condensa	te	Volume Release			Volume Recovered (bbls)
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)
Other (de	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)
Cause of Rel	ease A 3/0	1 3" stainless st	eel line at the	well head froz	e resulting in line to come apart.

State of New Mexico Oil Conservation Division

Incident ID	NAB1907931810
District RP	2RP-5301
Facility ID	
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Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Greater than 25 barrels of fluid I	oss.
☑ Yes ☐ No		
If YES, was immediate no Bruce Baker notified at 3:20 p.m.	otice given to the OCD? By whom? To what Jim Griswold, Mike Bratcher (N	om? When and by what means (phone, email, etc)? MOCD) and Jim Amos (BLM) via email on 3/4/19
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediate	y unless they could create a safety hozard that would result in injury
☐ The source of the rele	ase has been stopped.	
☑ The impacted area ha	s been secured to protect human health and	the environment.
☑ Released materials ha	we been contained via the use of berms or o	ikes, absorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	vhy:
has begun, please attach :	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environa failed to adequately investiga	required to report and/or file certain release noti nent. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Bruce I	Baker	Title: Environmental Technician SR.
Signature:Buc	Baher	Date: 3/11/19
email: larry.baker@a	pachecorp.com	Telephone: 432-631-6982
u.		
OCD Only		
Received by:	het Intamente	Date: 3/20/2019

State of New Mexico 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?	Nowe (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ 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 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ 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 ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ve contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring we	lls.
Data table of soil contaminant concentration data 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 Thotographs including date and GIS information	
Laboratory 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.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

	otifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Bruce Baker Signature: Bruce Baker email: Jarry. baker @apachecorp.com	Title: Environmental Tech. Date: 9-16-19 Telephone: 432-631-6982
OCD Only Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

items must be included in the closure report.
II NMAC
s of the liner integrity if applicable (Note: appropriate OCD District office
C District office must be notified 2 days prior to final sampling)
ete to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which if a C-141 report by the OCD does not relieve the operator of liability emediate contamination that pose a threat to groundwater, surface water, f a C-141 report does not relieve the operator of responsibility for lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Environmental Tech
Date: 9-16-19
Date: 7-76-77
Telephone: 432-631-6982
Date:
y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Date:
Title:



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found,

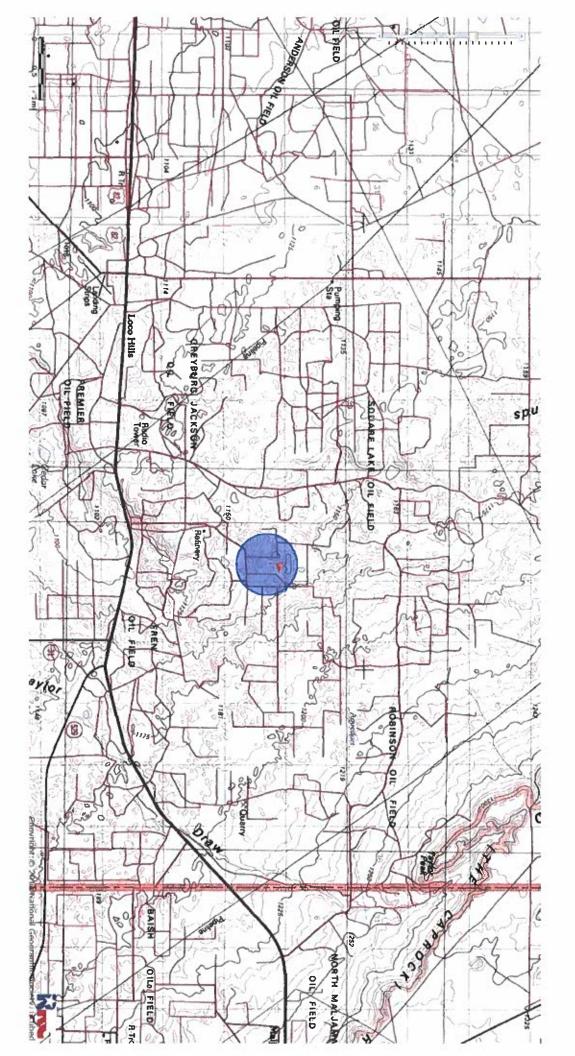
UTMNAD83 Radius Search (in meters):

Easting (X): 602678 Northing (Y): 3635683 Radius: 3000

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.

12/11/18 1:24 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

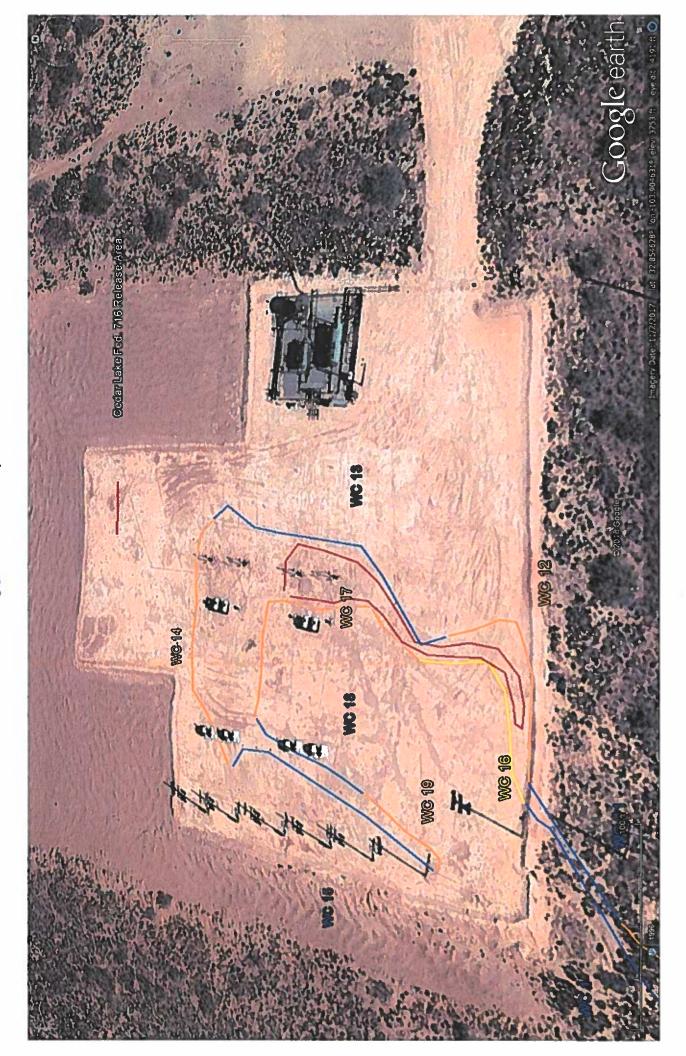


Cedar Lake Fed. 716 Wall Samples

				Ethylbenz	Total					
Comp Pt.	CL-	Benzene	Toluene	eue	Xylenes	Total BTEX	GRO	DRO	EXT. DRO	Date
WC 12	008	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6/13/2019
WC 13	2200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6/13/2019
WC 14	926	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	63.7	15.1	6/13/2019
WC 16	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6/13/2019
WC 17	1180	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6/13/2019

Cedar Lake Fed. 716 Bottom Samples

					Ethylbenz	Total					1
Comp Pt.	Depth	CL-	Benzene	Toluene	ene	Xylenes	Total BTEX	GRO	DRO	EXT. DRO	Date
BFC 21	9	4960	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2480	698	6/11/2019
BFC 21	1,		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6/19/2019
BFC 22	9	3440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	115	20.8	6/11/2019
BFC 23	9	64	<0.050	<0.050	0.168	0.603	0.771	19.3	1400	260	6/11/2019
BFC 23	1,		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6/19/2019
BFC 24	.9	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43	<10.0	6/11/2019
BFC 25	9	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	513	103	6/11/2019
BFC 26	9	96	<0.050	<0.050	<0.050	<0.150	<0.300	51	16,400	4520	6/11/2019
BFC 26	1,		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6/19/2019
B28	Surface	22000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3190	996	7/16/2019
B28	3"	3000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	7/22/2019
829	Surface	15400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	775	406	7/16/2019



Bottom Samples



June 17, 2019

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CEDAR LAKE FED CA 737H

Enclosed are the results of analyses for samples received by the laboratory on 06/11/19 16:10.

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 accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celeg L. 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



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. **HOBBS NM, 88240**

Fax To:

(575) 393-2432

Received:

06/11/2019 06/17/2019

Reported: Project Name:

CEDAR LAKE FED CA 737H

Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

06/11/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: BFC # 1 @ 1.6" (H902025-01)

BTEX 8021B	mg/	'kg	Analyze	d Bγ: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2019	ND	1.94	97.2	2.00	1.12	
Toluene*	<0.050	0.050	06/14/2019	ND	1.91	95.7	2.00	0.282	
Ethylbenzene*	<0.050	0.050	06/14/2019	ND	1.86	92.8	2.00	1.71	
Total Xylenes*	<0.150	0.150	06/14/2019	ND	5.67	94.5	6.00	0.151	
Total BTEX	<0.300	0.300	06/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103	% 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	06/13/2019	ND	384	96.0	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.811	
DRO >C10-C28*	<10.0	10.0	06/12/2019	ND	186	93.2	200	1.81	
EXT DRO >C28-C36	< 10.0	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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*=Accredited Analyte

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received:

06/11/2019

06/17/2019

Reported: Project Name:

CEDAR LAKE FED CA 737H

Project Number: Project Location:

NOT GIVEN

NONE GIVEN

Sampling Date:

06/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 8 (H902025-02)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2019	ND	1.94	97.2	2.00	1.12	
Toluene*	<0.050	0.050	06/14/2019	ND	1.91	95.7	2.00	0.282	
Ethylbenzene*	<0.050	0.050	06/14/2019	ND	1.86	92.8	2.00	1.71	
Total Xylenes*	<0.150	0.150	06/14/2019	ND	5.67	94.5	6.00	0.151	
Total BTEX	<0.300	0.300	06/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 73 3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/13/2019	ND	384	96.0	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.811	
DRO >C10-C28*	759	10.0	06/12/2019	ND	186	93.2	200	1.81	
EXT DRO >C28-C36	137	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	?						
Surrogate: 1-Chlorooctadecane	128	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and chent's evolutive ramedy for any claim ansing, whether based in contract or tort, shall be lamited to the amount paid by clein for analyses. All claims, including those for negligence and any other cause whalsoever shall be deemed werved unless made in writing and received by Cardinal within thirty (30) days after empletion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, without amutation, business interruptions, loss of use, or loss of profits incurred by claim, is based upon any of the above stated respons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratomes.

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: BFC # 9 (H902025-03)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2019	ND	1.94	97.2	2.00	1.12	
Toluene*	<0.050	0.050	06/14/2019	ND	1.91	95.7	2.00	0.282	
Ethylbenzene*	<0.050	0.050	06/14/2019	ND	1.86	92.8	2.00	1.71	
Total Xylenes*	<0.150	0.150	06/14/2019	ND	5.67	94.5	6.00	0.151	
Total BTEX	<0.300	0.300	06/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	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	32.0	16.0	06/13/2019	ND	384	96.0	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.811	
DRO >C10-C28*	108	10.0	06/12/2019	ND	186	93.2	200	1.81	
EXT DRO >C28-C36	27.0	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	93.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Cologi tiena



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Analyzed By: RF

Received:

06/11/2019

06/17/2010

Sampling Date:

06/11/2019

Reported:

RTFX 8021B

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: BFC # 10 (H902025-04)

B1EX 8021B	mg,	/ Kg	Anaiyze	а ву: в г					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2019	ND	1.94	97.2	2.00	1.12	
Toluene*	<0.050	0.050	06/14/2019	ND	1.91	95.7	2.00	0.282	
Ethylbenzene*	<0.050	0.050	06/14/2019	ND	1.86	92.8	2.00	1.71	
Total Xylenes*	<0.150	0.150	06/14/2019	ND	5.67	94.5	6.00	0.151	
Total BTEX	<0.300	0.300	06/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	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	32.0	16.0	06/13/2019	ND	384	96.0	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.811	
DRO >C10-C28*	<10.0	10.0	06/12/2019	ND	186	93.2	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	98.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	100	% 37.6-14	7						

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College L. Kanner

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/11/2019

06/11/2019

Reported:

06/17/2019

Sampling Date: Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

CEDAR LAKE FED CA 737H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: BFC # 11 (H902025-05)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2019	ND	1.94	97.2	2.00	1.12	
Toluene*	<0.050	0.050	06/14/2019	ND	1.91	95.7	2.00	0.282	
Ethylbenzene*	<0.050	0.050	06/14/2019	ND	1.86	92.8	2.00	1.71	
Total Xylenes*	<0.150	0.150	06/14/2019	ND	5.67	94.5	6.00	0.151	
Total BTEX	<0.300	0.300	06/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103	% 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	80.0	16.0	06/13/2019	ND	384	96.0	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.811	
DRO >C10-C28*	<10.0	10.0	06/12/2019	ND	186	93.2	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	90.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.7	% 37.6-14	7						

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Fax To:

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Received:

06/11/2019

06/17/2019

Sampling Date: Sampling Type: 06/11/2019

Reported:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN **NOT GIVEN**

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 12 (H902025-06)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2019	ND	1.94	97.2	2.00	1.12	
Toluene*	<0.050	0.050	06/14/2019	ND	1.91	95.7	2.00	0.282	
Ethylbenzene*	<0.050	0.050	06/14/2019	ND	1.86	92.8	2.00	1.71	
Total Xylenes*	<0.150	0.150	06/14/2019	ND	5.67	94.5	6.00	0.151	
Total BTEX	<0.300	0.300	06/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103	% 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	208	16.0	06/13/2019	ND	384	96.0	400	0.00	
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	06/12/2019	ND	194	96.8	200	0.811	
DRO >C10-C28*	<10.0	10.0	06/12/2019	ND	186	93.2	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	97.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.5	% 37.6-14	7						

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Fax To:

(575) 393-2432

Received:

06/11/2019

06/11/2019

Reported:

06/17/2019

Sampling Date: Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN **NOT GIVEN**

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 13 (H902025-07)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2019	ND	1.94	97.2	2.00	1.12	
Toluene*	<0.050	0.050	06/14/2019	ND	1.91	95.7	2.00	0.282	
Ethylbenzene*	< 0.050	0.050	06/14/2019	ND	1.86	92.8	2.00	1.71	
Total Xylenes*	<0.150	0.150	06/14/2019	ND	5.67	94.5	6.00	0.151	
Total BTEX	<0.300	0.300	06/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102	% 73.3-12	19						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/13/2019	ND	400	100	400	0.00	QR-03
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2019	ND	226	113	200	2.62	
DRO >C10-C28*	12.2	10.0	06/13/2019	ND	197	98.6	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	06/13/2019	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.6	% 37.6-14	17						

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Received: Reported: 06/11/2019

06/17/2019

Project Name:

CEDAR LAKE FED CA 737H

Project Number: Project Location:

NONE GIVEN

Sampling Date:

06/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 14 (H902025-08)

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	06/14/2019	ND	2.37	119	2.00	2,69	
Toluene*	<0.050	0.050	06/14/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/14/2019	ND	2.22	111	2.00	2,28	
Total Xylenes*	<0.150	0.150	06/14/2019	ND	6.66	111	6.00	1.85	
Total BTEX	<0.300	0.300	06/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	104	% 73.3-12	29						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	06/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2019	ND	226	113	200	2.62	
DRO >C10-C28*	581	10.0	06/13/2019	ND	197	98.6	200	2.45	
EXT DRO >C28-C36	36.9	10.0	06/13/2019	ND					
Surrogate: 1-Chlorooctane	94.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	17.						

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Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: BFC # 15 (H902025-09)

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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total 8TEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	105	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	06/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2019	ND	226	113	200	2.62	
DRO >C10-C28*	<10.0	10.0	06/13/2019	ND	197	98.6	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	06/13/2019	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.6	% 37.6-14	17						

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Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

DTEV 90310

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: BFC # 16 (H902025-10)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	06/15/2019	ND	2.37	119	2.00	2.69	
<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
<0.300	0.300	06/15/2019	ND					
103 9	% 73.3-12	9						
mg/	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	06/13/2019	ND	400	100	400	0.00	
mg/	/kg	Analyze	d Bγ: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/12/2019	ND	194	96.8	200	0.317	
1120	10.0	06/12/2019	ND	185	92.6	200	8.38	QM-07
257	10.0	06/12/2019	ND					
90.7	% 41-142	?						
143 9	% 37.6-14	7						
	<0.050 <0.050 <0.050 <0.150 <0.300 103 9 Result 64.0 mg/ Result <10.0 1120 257	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 103 % 73.3-12 mg/kg Result Reporting Limit 64.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 1120 10.0 90.7 % 41-142	 <0.050	<0.050	<0.050	<0.050	<0.050	 <0.050

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Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

NOT GIVEN

Sample ID: BFC # 17 (H902025-11)

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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0,150	06/15/2019	ND	6.66	111	6.00	1.85	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	06/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	< 10.0	10.0	06/12/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	724	10.0	06/12/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	191	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	126	% 37.6-14	7						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

(575) 393-2432 Fax To:

Received: Reported: 06/11/2019

06/17/2019

Project Name: Project Number: CEDAR LAKE FED CA 737H

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

06/11/2019

Sampling Type:

Soil Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 18 (H902025-12)

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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total STEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	104 %	6 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	736	16.0	06/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	52.5	10.0	06/12/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	84.69	6 41-142	?						
Surrogate: 1-Chlorooctadecane	90.6 9	6 37.6-14	7						

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Fax To:

(575) 393-2432

Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 19 (H902025-13)

8TEX 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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	< 0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total 8TEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102	% 73.3-12	29						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	06/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	152	10.0	06/12/2019	ND	185	92.6	200	8,38	
EXT DRO >C28-C36	92.0	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	92.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	17						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 20 (H902025-14)

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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 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	272	16.0	06/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	52.0	10.0	06/12/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103 5	% 37.6-14	7						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: BFC # 21 (H902025-15)

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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	06/13/2019	ND	400	100	400	0.00	
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	06/12/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	2480	10.0	06/12/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	869	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	188	% 37.6-14	17.						

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JEFFREY BROOM
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: Reported: 06/11/2019

06/17/2019

Project Name:

CEDAR LAKE FED CA 737H

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

06/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 22 (H902025-16)

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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	105	% 73.3-12	19						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	06/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	115	10.0	06/12/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	50.8	10.0	06/12/2019	ND					
Surrogate: 1-Chlorooctane	97.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	17						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN **NOT GIVEN**

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 23 (H902025-17)

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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	0.168	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	0.603	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total BTEX	0.771	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	119	% 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	64.0	16.0	06/13/2019	ND	400	100	400	0.00	
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*	19.3	10.0	06/13/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	1400	10.0	06/13/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	260	10.0	06/13/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142	?						
Surrogate: 1-Chlorooctadecane	161	% 37.6-14	7						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Analyzed By: ms

Received:

06/11/2019

Sampling Date:

06/11/2019

Reported:

RTEY SOOTS

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: BFC # 24 (H902025-18)

B1EX 8021B	mg,	кд	Anaiyze	a by: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	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	64.0	16.0	06/13/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/13/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	43.0	10.0	06/13/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	06/13/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate 1-Chlorooctadecane	106	% 37.6-14	7.						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. **HOBBS NM, 88240**

Fax To:

(575) 393-2432

Analyzed By: me

Received:

RTEX 8021B

06/11/2019

Sampling Date:

06/11/2019

Reported:

06/17/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

ma/ka

Sample Received By:

Project Location:

NOT GIVEN

Tamara Oldaker

Sample ID: BFC # 25 (H902025-19)

BTEX 8021B	mg/	/kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method 8lank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2.38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 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	32.0	16.0	06/13/2019	ND	400	100	400	0.00	
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	06/13/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	513	10.0	06/13/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	103	10.0	06/13/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	?						
Surrogate: 1-Chlorooctadecane	126	% 37.6-14	7						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

To: (575) 393-2432

Received:

06/11/2019

Reported:

06/17/2019

Project Name: Project Number: CEDAR LAKE FED CA 737H

Project Location:

NONE GIVEN

Sampling Date:

06/11/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: BFC # 26 (H902025-20)

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	06/15/2019	ND	2.37	119	2.00	2.69	
Toluene*	<0.050	0.050	06/15/2019	ND	2,38	119	2.00	1.04	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.22	111	2.00	2.28	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.66	111	6.00	1.85	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	109 5	% 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	96.0	16.0	06/13/2019	ND	400	100	400	0.00	
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*	51.0	50.0	06/13/2019	ND	194	96.8	200	0.317	
DRO >C10-C28*	16400	50.0	06/13/2019	ND	185	92.6	200	8.38	
EXT DRO >C28-C36	4520	50.0	06/13/2019	ND					
Surrogate: 1-Chlorooctane	524 5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	1170	% 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. The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect, S-04 QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. Analyte NOT DETECTED at or above the reporting limit ND Relative Percent Difference RPD Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Arusko			BIL	BILL TO				ANALYSIS	REQUEST	ا ٔ		
Project Manager:	200		P.C	P.O. #:							_	_	
Address:	=	:	Co	Company:						 			
city: 1/abs	State: / DM	Zip: 今82240	Attn:	.		·							
Phone #:	Fax #:		Ad	Address:						 			
Project #:	Project Owner:		City:	Ÿ.									
Project Name:			ats.	State: Z	Zip:								
Project Location	Project Location: Leador lide lake Ped (A #737 H	9 47374	말	Phone #:						 			
Sampler Name:	•		Fax	Fax #:					•	 			
FOR LAB USE ONLY		MATRIX		PRESERV.	SAMPLING		1						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER:	ACID/BASE; ICE / COOL OTHER :	DATE	TIME	C1 EXTTP1	BTEY		 			
/	BFC1016"	1 1 3		-	6/11 9	9:50A.w	/ /	^					
2	BFC # 8)		~		2:22:3	ſ /	/					
	RFC #9	Č / /		~	2:	2:242	_	/					
	RFC #10	CI/I = i	= 1	1	2	2.260	<u> </u>	1					
3	(SEL#1)	011		1	1 2	2:280) (
2	9FC # 12	7 7		1	/ 2	2.300	1	/					
7	BECH 12	7 112		/		350	<u> </u>	`					
o/2	BFC #14	/ //)	-11	1/	ر د	2.242	~	\					
8	BECKEIS				2	2:3/0)	_					
Ø	BECEIL	V V			1 2	2:38,21		/					
PLEASE NOTE: Liability and enalyses. All claims including service. In no event shall Ca	PLEASE NOTE: Lability and Dayrages, Cardral's lability and clerifs exclusive remote) for any claim arising whether besed in contract or lot, shall be limited to the girount paid by the cleant in the enables. All claims including those for nepfigance and any other curse whateverer shall be deemed valved unless made in whiting and received by Cardralia which 30 days after completion of the applicable service. In no event shall Cardralia be able for included all or consequental damages, including without firstation, business thempolens, loss of use or loss of polits incurred by dent, its subscialies,	y daim arcing whother based is semed waived unless made in v without ilmitation, business inter	n contract or lor writing and receil muplions, loss of	 shall be limited to I are by Cardinal with fuse or loss of profit 	he ilynount paid by in 30 days after con is incurred by client	the client for the npletion of the ap , its subsidiaries,	plicable		:				
service. In no event shall Ca	service. In no event shall Cardinal be fable for incidental or consequental damages, including without firstation, business interruptions, toss of use, or loss of profits incurred by client, its subbidiaries,	without firstation, business inter	muplians, loss of	f use, or loss of profi	is incurred by client	. its subsidiaries.							

Relinquished By:

Date: 10

Phone Result: Fax Result: REMARKS:

☐ Yes

8 8 8

Add'l Phone #: Add'l Fax #:

Received by

Time:

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

2.70

Sample Condition
Cool Intact
GYes GYes
No No

9

CHECKED BY: (Initials)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: April	į	BILL TO			ANALYSIS R	REQUEST	
Project Manager: To A Rico		P.O. #:					
Address:		Company:					
City: Hobby State ////	21p: 88946	Attn:					
_		Address:					
Project #: Project Owner:	•	City:					
Project Name:		State: Zip:					
Project Location: Color Lake Que CA #7	# 73-7 H	Phone #:					
San Son		Fax #	j				
FOR LAB USE DNLY	MATRIX	PRESERV SAMPLING	NG	/			
	ER R			P17			
Lab I.D. Sample I.D.	AB OR (C NTAINER UNDWAT TEWATE	/BASE:	f	TT T			,
1902025	# CO GRO		TIME	5 x 137			
11 SFC #17	1	,	2:45	· /			
12 BFC#18	< ', ', ', ', ', ', ', ', ', ', ', ', ',		2:42 (/ /			
13 RFC # 19	C / /		2:44 (() (
14 85(420	C (' '		2:46 1	1 1			
15 BFC #21	\ \ \		2:48	7			
16 BFC #22	\ - -	, ,	3)50 (
17 BFCH23	C /		2:52 (()			
18 BEC #24	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	`	2:5× 1	()			
19 BRC +25			2:56				
20 BFC #24	6/		2:58	1 1			
PLEASE NOTE: Liability and Datteges. Cardinat's liability and client's exclusive remedy for any claim antiling wheither based in contract or lord, shall be furried to the amount paid by the client's exclusive remedy for any claim antiling wheither based in contract or lord, shall be furries within 30 days after completion of the applicable service. In no event shall Cardinal be fashe for incidental or consequental damanges, including without limitation, business infamilytions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be fashe for incidental or consequental damanges, including without limitation, business infamilytons, loss of use, or loss of profits incurred by client, its subsidiaries,	ny claim ansing whether based in contract learned waived unless made in writing and without fimitation, business interruptions, i	or tort, shall be firmled to the amount past received by Cardinal within 30 days afte tots of use, or loss of profits incurred by o	d by the client for the ir completion of the applical dient, its subsidiaries,	ble	į		
Reliaquished By: Phone Resi	Received By:		Phone Result:	Yes □	Add'l Phone #:		
Time: 10	hunta	Maken	Fax Result: REMARKS:	☐ Yes ☐ No	Add' Fax #:		
	Received By:						
Time:	•						

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

Sample Condition
Cool Intact
Pres Pres

CHECKED BY: (Initials)



June 20, 2019

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CEDAR LAKE FED CA 737H

Enclosed are the results of analyses for samples received by the laboratory on 06/13/19 10:10.

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/qa/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.

Celeg L. 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



APACHE CORP - HOBBS
JEFFREY BROOM
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:

06/13/2019

Sampling Date:

06/13/2019

Reported:

06/20/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: WC # 12 (H902055-01)

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	06/15/2019	ND	2.21	111	2.00	1.65	
Toluene*	<0.050	0.050	06/15/2019	ND	2.24	112	2.00	0.599	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.08	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.26	104	6.00	1.43	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	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	800	16.0	06/17/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS	- 17				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2019	ND	185	92.3	200	3.85	
DRO >C10-C28*	<10.0	10.0	06/14/2019	ND	183	91.4	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	06/14/2019	ND					
Surrogate: 1-Chlorooctane	82.2	% 41-142							
Surrogate: 1-Chlorooctadecane	81.9	% 37.6-14	7						

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*=Accredited Analyte

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Colory L. trans



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Analyzed Ry: ms

Received:

06/13/2019

Sampling Date:

06/13/2019

Reported:

RTEY ROOTS

06/20/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: WC # 13 (H902055-02)

B1EX 8021B	mg/	kg	Anaiyze	a by: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2019	ND	2.21	111	2.00	1.65	
Toluene*	<0.050	0.050	06/15/2019	ND	2.24	112	2.00	0.599	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.08	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.26	104	6.00	1.43	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	6 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	2200	16.0	06/17/2019	ND	416	104	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	06/14/2019	ND	185	92.3	200	3.85	
DRO >C10-C28*	<10.0	10.0	06/14/2019	ND	183	91.4	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	06/14/2019	ND					
Surrogate: 1-Chlorooctane	87.65	% 41-142	ļ						
Surrogate: 1-Chlorooctadecane	90.25	% 37.6-14	7						

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*=Accredited Analyte

PLEASE NOTE: Labbitly and Damages. Cardwal's Babelly and chent's evolutive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waved unless made in writing in increased in writing and i

Colog L. Kinne



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/13/2019

Sampling Date:

06/13/2019

Reported:

06/20/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: WC # 14 (H902055-03)

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	06/15/2019	ND	2.21	111	2.00	1.65	
Toluene*	<0.050	0.050	06/15/2019	ND	2.24	112	2.00	0.599	
Ethylbenzene*	<0.050	0.050	06/15/2019	ND	2.08	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	06/15/2019	ND	6.26	104	6.00	1.43	
Total BTEX	<0.300	0.300	06/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 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	976	16.0	06/17/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2019	ND	185	92.3	200	3.85	
DRO >C10-C28*	63.7	10.0	06/14/2019	ND	183	91.4	200	6.10	
EXT DRO >C28-C36	15.1	10.0	06/14/2019	ND					
Surrogate: 1-Chlorooctane	95.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	17:						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/13/2019

Sampling Date:

06/13/2019

Reported:

06/20/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: WC # 15 (H902055-04)

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	06/19/2019	ND	2.21	111	2.00	1.65	
Toluene*	<0.050	0.050	06/19/2019	ND	2.24	112	2.00	0.599	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	2.08	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	6.26	104	6.00	1.43	
Total BTEX	<0.300	0.300	06/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	106	% 73.3-12	9						
Chloride, SM4500CI-8	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/17/2019	ND	416	104	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	06/14/2019	ND	185	92.3	200	3,85	
DRO >C10-C28*	114	10.0	06/14/2019	ND	183	91.4	200	6.10	
EXT DRO >C28-C36	45.5	10.0	06/14/2019	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 06/13/2019

06/20/2019 CEDAR LAKE FED CA 737H

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

06/13/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: WC # 16 (H902055-05)

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	06/19/2019	ND	2.21	111	2.00	1.65	
Toluene*	<0.050	0.050	06/19/2019	ND	2.24	112	2.00	0.599	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	2.08	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	6.26	104	6.00	1.43	
Total BTEX	<0.300	0.300	06/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 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	48.0	16.0	06/17/2019	ND	416	104	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	06/14/2019	ND	185	92.3	200	3.85	
DRO >C10-C28*	<10.0	10.0	06/14/2019	ND	183	91.4	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	06/14/2019	ND					
Surrogate: 1-Chlorooctane	85.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.2	% 37.6-14	7						

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Colony it trains



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/13/2019

Sampling Date:

06/13/2019

Reported:

06/20/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: WC # 17 (H902055-06)

BTEX 80218	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	06/19/2019	ND	2.21	111	2.00	1.65	
Toluene*	<0.050	0.050	06/19/2019	ND	2.24	112	2.00	0.599	
Ethylbenzene*	< 0.050	0.050	06/19/2019	ND	2.08	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	6.26	104	6.00	1.43	
Total BTEX	<0.300	0.300	06/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	19						
Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	06/17/2019	ND	416	104	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	06/14/2019	ND	185	92.3	200	3.85	
DRO >C10-C28*	<10.0	10.0	06/14/2019	ND	183	91.4	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	06/14/2019	ND					
Surrogate: 1-Chlorooctane	84.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-14	17.						

Cardinal Laboratories *=Accredited Analyte

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 06/13/2019

06/20/2019

Project Name: Project Number: CEDAR LAKE FED CA 737H

Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

06/13/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: WC # 18 (H902055-07)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	2.21	111	2.00	1.65	
Toluene*	<0.050	0.050	06/19/2019	ND	2.24	112	2.00	0.599	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	2.08	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	6.26	104	6.00	1.43	
Total BTEX	<0.300	0.300	06/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	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	7120	16.0	06/17/2019	ND	416	104	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	06/14/2019	ND	185	92.3	200	3.85	
DRO >C10-C28*	84.6	10.0	06/14/2019	ND	183	91.4	200	6.10	
EXT DRO >C28-C36	41.8	10.0	06/14/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.5	% 37,6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Cologic tions



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/13/2019

Sampling Date:

06/13/2019

Reported:

06/20/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: WC # 19 (H902055-08)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	2.21	111	2.00	1.65	
Toluene*	<0.050	0.050	06/19/2019	ND	2.24	112	2.00	0.599	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	2.08	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	6.26	104	6.00	1.43	
Total BTEX	<0.300	0.300	06/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	107 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC	<u> </u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/17/2019	ND	416	104	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	06/14/2019	ND	185	92.3	200	3.85	
DRO >C10-C28*	<10.0	10.0	06/14/2019	ND	183	91.4	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	06/14/2019	ND					
Surrogate: 1-Chlorooctane	90.9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Colog intiena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 12 DC / 13		BILL TO			ANALYSIS REQUEST	
Project Manager: Police Bulle / Hand	4. Econ	P.O. #:				
Address:		Company:				
City: \$10 bbs State: 1) Le	Zip: << 2947) /	Attn:				
Phone #: Fax #:		Address:				
Project #: Project Owner:		City:				
Project Name:		State: Zip:				
Project Location: Codur Laker Feyl Cix	1374	Phone #:				
Sampler Name: Jac, Qui sado		Fax #:				
	MATRIX	PRESERV SAMPLING	NG			
	RS			PH		
Lab I.D. Sample I.D.	G)RAB OR (CONTAINE C	OTHER: ACID/BASE: CE / COOL OTHER:	TIME (1)	Ext TI BTEX		
1 H 3(v) #	_	11/1/13	8.1%	/ /		
Z 4 3 4 3	C = /		XXX /	Z		
W 5 C # 19	C - /		8:52/	[
S # 3 P	C ~		8:54	/		
S w C # 16	c -		856	<u>/</u>		
6 m(±17	C 	2	2 SX /	Z		
2 0 年 8	C -	1	9 00 X	/		
8 mc # 19	0	i 6/13	1.00 \	<u>/</u>		
PLEASE NOTE: Lability and Damages. Cardinat's lability and client's exclusive remainly for any daymarteng weather besed in contract or too, shall be livrised to the amount peed by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	y daim artsing whether based in contract o remad walved unless made in writing and r	or toot, shall be limited to the amount pa- received by Cardinal within 30 days, afte	d by the client for the r completion of the applicable			
service. In no event shall Curtifinat be fabble for incidental or consequental damages, including without limitation, business interruptions, bass of use, or loss of profits incurred by calent, its subsidiaries, efficiency or successors existing on related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated treators or otherwise.	vithout limitation, business interruptions, los dinal, regardless of whether such claim is	ss of use, or loss of profits incurred by a besed upon any of the above stated re-	dent, its subsideries. esons or otherwise.			
Reliadulsher By:	Received/By:	0711111	Ē	☐ Yes ☐ No	Add'I Phone #: Add'I Fax #:	
100 (10 : 10 : 10	Jumara de	Lacor of	REMARKS:			

Relinquished By:

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

5.00

#03

Sample Condition
Cool Intact
Pes Pres
No No

17

Email Result's

CHECKED BY: (Initials)

Time: Date:

Received By:



June 25, 2019

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CEDAR LAKE FED CA 737H

Enclosed are the results of analyses for samples received by the laboratory on 06/19/19 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/qa/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.

Celeg Li 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



APACHE CORP - HOBBS
JEFFREY BROOM
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:

06/19/2019

Sampling Date:

06/19/2019

Reported:

06/25/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: BFC # 16 (H902123-01)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.78	89.2	2.00	2.66	
Toluene*	<0.050	0.050	06/20/2019	ND	1.76	87.9	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.70	85.1	2.00	2.34	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.20	86.6	6.00	1.41	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	106	% 73.3-12	9						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2019	ND	206	103	200	1.41	
DRO >C10-C28*	<10.0	10.0	06/21/2019	ND	176	88.2	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	06/21/2019	ND					
Surrogate: 1-Chlorooctane	94.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.9	% 37.6-14	7						

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*=Accredited Analyte

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

06/19/2019

Sampling Date:

06/19/2019

Reported:

06/25/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

Sample Received By:

Tamara Oldaker

NOT GIVEN

Sample ID: BFC # 26 (H902123-02)

BTEX 8021B	mg/l	kg	Analyze	d By: BF					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.78	89.2	2.00	2.66	
Toluene*	<0.050	0.050	06/20/2019	ND	1.76	87.9	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.70	85.1	2.00	2.34	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.20	86.6	6.00	1.41	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	106 %	73.3-12	9						
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2019	ND	206	103	200	1.41	
DRO >C10-C28*	<10.0	10.0	06/21/2019	ND	176	88.2	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	06/21/2019	ND					
Surrogate: 1-Chlorooctane	95.9 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	97.7 9	6 37.6-14	7						

*=Accredited Analyte **Cardinal Laboratories**

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: Reported: 06/19/2019

06/25/2019

Project Name: Project Number: CEDAR LAKE FED CA 737H

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

Sample Received By:

06/19/2019

Sampling Type:

Soil Sampling Condition:

Cool & Intact

Tamara Oldaker

Sample ID: BFC # 23 (H902123-03)

BTEX 8021B	mg/l	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.78	89.2	2.00	2.66	
Toluene*	<0.050	0.050	06/20/2019	ND	1.76	87.9	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.70	85.1	2.00	2.34	
Total Xylenes*	< 0.150	0.150	06/20/2019	ND	5.20	86.6	6.00	1.41	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 73.3-12	9						
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2019	ND	206	103	200	1.41	
DRO >C10-C28*	<10.0	10.0	06/21/2019	ND	176	88.2	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	06/21/2019	ND					
Surrogate: 1-Chlorooctane	102 %	6 41-142							
Surrogate: 1-Chlorooctadecane	103 %	6 37.6-14	7						

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APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received:

06/19/2019

Sampling Date:

06/19/2019

Reported:

06/25/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: BFC # 21 (H902123-04)

BTEX 8021B	mg/	kg	Analyze	d By: BF					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	06/20/2019	ND	1.78	89.2	2.00	2.66	
Toluene*	<0.050	0.050	06/20/2019	ND	1.76	87.9	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.70	85.1	2.00	2.34	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.20	86.6	6.00	1.41	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	104 9	% 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2019	ND	206	103	200	1.41	
DRO >C10-C28*	<10.0	10.0	06/21/2019	ND	176	88.2	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	06/21/2019	ND					
Surrogate: 1-Chlorooctane	103 5	% 41-142	?						
Surrogate: I-Chlorooctadecane	103 9	% 37.6-14	7						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Colog L. Kenne



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Home		BILL TO	ANALYSIS REQUEST
Project Manager: Set & Some		P.O. #:	
Address:		Company:	
city: Hobby State: 1/1/1/	State: NUN Zip: 85240	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owner:		City:	
Project Name:		State: Zip:	
Project Location: Cecler lake Fell Ch 4737H	47574	Phone #:	
Sampler Name: Sign Colons		Fax #:	
	MATRIX	PRESERV SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	EXT T 1
BEC #16	/	6/119 139 on	
BF		1 6/19 200	
		11 11/19/1/34	
2)	$C \mid I \mid $	1 1/1/9 5:5%	
		*	
PLEASE NOTE: Liability and Damages, Cardinal's Eability and client's exclusive remark for any claim artising whether based in contract or ton, shall be limited to the amount paid by the client for the	claim arising whether based in contract	or tort, shall be limited to the amount paid by the client	tox of the

Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Date: 70 Time: 61-61-2 2.8° #97 CHECKED BY: Phone Result:
Fax Result:
REMARKS: □ Yes 8 8 0 Add'l Phone #: Add'l Fax #:

Enneal Results



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

07/16/2019

Sampling Date:

07/16/2019

Reported:

07/18/2019

Sampling Type:

Soil

Project Name:

CEDAR LAKE FED CA 737H

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: B 27 (H902440-01)

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	07/17/2019	ND	2.07	104	2.00	0.586	
Toluene*	<0.050	0.050	07/17/2019	ND	2.08	104	2.00	0.242	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.96	98.2	2.00	0.230	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.95	99.1	6.00	0.0747	
Total BTEX	<0.300	0.300	07/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.8	% 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	Qualifler
Chloride	10000	16.0	07/17/2019	ND	416	104	400	7.41	
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	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	1190	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	248	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	76.2	% 41-142	!						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 07/16/2019

07/18/2019

Project Name: Project Number: CEDAR LAKE FED CA 737H

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date:

07/16/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

: Tamara Oldaker

Sample ID: B 28 (H902440-02)

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	07/17/2019	ND	2.07	104	2.00	0.586	
Toluene*	<0.050	0.050	07/17/2019	ND	2.08	104	2.00	0.242	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.96	98.2	2.00	0.230	
Total Xylenes*	< 0.150	0.150	07/17/2019	ND	5.95	99.1	6.00	0.0747	
Total BTEX	<0.300	0.300	07/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.3	% 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	22000	16.0	07/17/2019	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	3190	50.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	966	50.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	97.8	% 41-142	}						
Surrogate: 1-Chlorooctadecane	208 9	% 37.6-14	7						

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APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 07/16/2019 07/18/2019

Project Name:

CEDAR LAKE FED CA 737H

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

07/16/2019

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: B 29 (H902440-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.07	104	2.00	0.586	
Toluene*	<0.050	0.050	07/17/2019	ND	2.08	104	2.00	0.242	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.96	98.2	2.00	0.230	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.95	99.1	6.00	0.0747	
Total BTEX	<0.300	0.300	07/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 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	15400	16.0	07/17/2019	ND	416	104	400	7.41	
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	07/17/2019	ND	190	94.8	200	1.40	
DRO >C10-C28*	775	10.0	07/17/2019	ND	191	95.4	200	2.82	
EXT DRO >C28-C36	406	10.0	07/17/2019	ND					
Surrogate: I-Chlorooctane	78.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108 9	% 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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: APACHE GRODATEN		BILL TO	ANALYSIS REQUEST
Project Manager: BAKE BAKE		P.O. #:	
Address:		Company:	
City: State: 2	Zip:	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owner:		City:	
Project Name: CEDAR LAKE 737H		State: Zip:	
Project Location: CFDAL LAKE 737 H		Phone #:	
Sampler Name: VEFF Brown		Fax #:	
e e	MATRIX	PRESERV SAMPLING	
	RS TER		
Lab I.D. Sample I.D.	G)RAB OR (FCONTAINE GROUNDWA WASTEWATI BOIL BLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	EXT.
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		7-11-15 0833	
3 8 25		7-16-15 0834	
PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remady for any claim arising whether based in contract or lord, shall be limited to the amount paid by the cleant for the another hand of the contracts. All delines including those for readjoint within 30 days after competition of the another hands.	claim ensing whether based in contra amed walved unless made in writing a	or both shall be limited to the amount pead by the clear to receive the Cardinal within to the same connoise to	t for the
service. In no event shall Cardinate be lable for incidental consequents damages, including without some dimension incidences interrogations, based uses, or based profits incurred by cleant, its substantes affiliation or successors arising out of or related to the performance of services beguinder by Cardinal, regardless of whether such clean is bossed upon any of the above stated teacors or observices.	Shoul Smilation, business interruptions final, regardless of whether such clein	this of use, or there is profits incurred by client, its subs- bits of use, or there of profits incurred by client, its subs- bit based upon any of the above stated temsons or other	view apparature plantes.

CEFF Mann Relinquished By:

Date:

Received By:

Date: 7. 1/3

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'l Phone #:

EMATE RESILES TO BALLE AND

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services hereunder by Ca.

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

8.6€

H97

Sample Condition
Cool Intact
Yes 76s
700 No

CHECKED BY: (Initials)

Time:

"orrected 9.0°C

Relinquished By:



July 23, 2019

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CEDAR LAKE FED CA 737H

Enclosed are the results of analyses for samples received by the laboratory on 07/22/19 16:55.

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/qa/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)

Whe South

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

07/22/2019

Reported:

07/23/2019

Project Name: Project Number: CEDAR LAKE FED CA 737H NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

07/22/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B #28 @ 3" (H902516-01)

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	07/23/2019	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	07/23/2019	ND	2.18	109	2.00	3.34	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	2.04	102	2.00	2.70	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	6.20	103	6.00	3.03	
Total BTEX	<0.300	0.300	07/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	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	3000	16.0	07/23/2019	ND	432	108	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	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	88.6	% 41-142	?						
Surragate: 1-Chlorooctadecane	91.0	% 37.6-14	17						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

07/22/2019

Reported:

07/23/2019 CEDAR LAKE FED CA 737H

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

07/22/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B #27 @ 3" (H902516-02)

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	07/23/2019	ND	2.10	105	2.00	1.96	
Toluene*	<0.050	0.050	07/23/2019	ND	2.18	109	2.00	3.34	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	2.04	102	2.00	2.70	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	6.20	103	6.00	3.03	
Total BTEX	<0.300	0.300	07/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102	% 73.3-12	9						
Chioride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	07/23/2019	ND	416	104	400	3.77	QM-07
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	96.3	% 41-142	1						
Surrogate: 1-Chlorooctadecane	98.0	% 37.6-14	7						

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	1	The second second	Timps:	1
☐ Yes ☐ No	`		/ / / / / / / / / / / / / / / / / / /	7.
□ Yes	Phone Result:	Received By:	V. Date:	Relinquished By:
	of profits incurred by client, its subsidiaries, if the above stated reasons or otherwise.	; without fimitation, business interruptions, loss of use, or loss o ardinal, regardless of whether such claim is based upon any of	service. In no event shall Cerdinal be lable for incidental or consequental damages, including without limitation, business interruptions, boss of use, or loss of profits incurred by client, its subsidiaries, efficient or event shall clearly out of or reinhed to the performance of services hereunder by Cardinal, regardless of whether such claim is bossed upon any of the above stated reasons or otherwise.	service. In no event shall Con efficiency or successors arising
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lex	ER:		Sample I.D.	Lab I.D.
		RS TER	Thor	
	V. SAMPLING	MATRIX PRESERV.	(FOR LAB USE ONLY
		Fax #:	Soe Churreles	Sampler Name:
		(# 433 / Phone #:	Calles Fred	Project Location: \e.dlas
	Zīp:	State:		Project Name:
		City:	Project Owner	Project #:
		Address:	Fax #:	Phone #:
		State: 01 14 Zip: 88247 Attn:		city: Moldas
		Company:		Address:
		P.O. #:	63	Project Manager:
ANALYSIS REQUEST	BILL TO		" H Darcha	Company Name:
			(0,0) 000 000 - 000 (0,0) 000- 000	

Refinguished By:

Date:

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

Corrected 5.0:

7.60

#97

Sample Condition
Cool Intact
Tes Tes
No No

CHECKED BY:

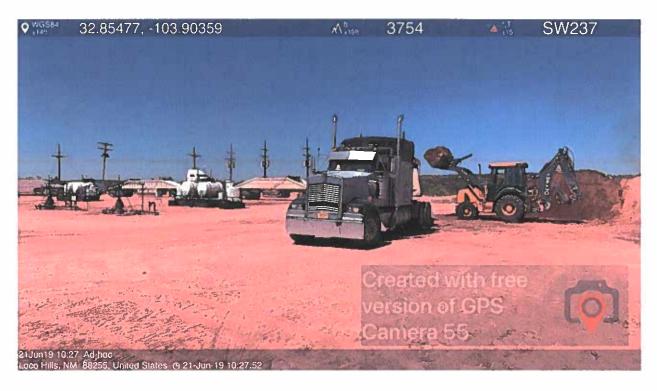
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