

May 1, 2019

Mike Bratcher Oil Conservation Division, District 2 811 S First St. Artesia, NM 88210

Crystal Weaver Bureau of Land Management, CFO 620 E. Green Street Carlsbad, NM 88220

Closure Report Unocal HPC Federal #001 API#: 30-015-26774

RP#: 2RP-5043

DOR: October 23, 2018

GPS: 32.4232864, -103.7293396

Unit Letter G, Section 1, Township 22 South, Range 31 East

Eddy County, New Mexico

Mr. Bratcher/Ms. Weaver.

COG Operating, LLC (COG) is pleased to submit the following closure report in response to a release that occurred at the Unocal HPC Federal #001 Tank Battery. The release is located in Unit Letter G, Section 1, Township 22 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.4232864 North and -103.7293396 West.

BACKGROUND

The release was discovered on October 23, 2018. A C-141 initial report was submitted to the New Mexico Oil Conservation Division (NMOCD) and the Bureau of Land Management (BLM). The initial C-141 is presented in Appendix A. A tank overflow resulted in the release of approximately forty (40) barrels (bbls) of oil. Vacuum trucks were utilized to recover approximately thirty-six (36) bbls of oil. The fluid remained inside the berms of the battery. A hand auger was utilized to collect soil samples from the impacted area.

GROUNDWATER AND REGULATORY FRAMEWORK

According to the United States Geological Survey (USGS) the nearest water well with measurement data (322333103461401) indicates that groundwater in the project vicinity is approximately one-hundred and twenty-five (125) feet below ground surface (BGS). The water well information is shown in Appendix B.

A risk based evaluation and site determinations were performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). According to the site characterization evaluation, no other receptors (water wells, playas, karst, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site. The groundwater data and the site characterization evaluation data is summarized in Appendix B. The delineation and closure criteria are listed below:

GENERAL SITE CHARACTERIZATION AND GROUNDWATER:

Site Characterization	Average Groundwater Depth (ft.)			
None Located	>100 feet			

DELINEATION AND CLOSURE CRITERIA:

Recommended Remedial Action Levels (RRALs)		
Chlorides	20,000 mg/kg	
TPH (GRO and DRO and MRO)	2,500 mg/kg	
TPH (GRO and DRO)	1,000 mg/kg	
Benzene	10 mg/kg	
Total BTEX	50 mg/kg	

Remedial Actions

- The impacted area in the vicinity of sample locations AH-1 and AH-3 was excavated to a depth of one (1) foot BGS.
- The impacted area in the vicinity of sample location AH-2 was excavated to a depth of three (3) feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Confirmation soil samples were taken from the excavation per NMAC 19.15.29 and the approved sampling plan.

• Upon receipt of acceptable analytical results from the confirmation soil sampling activities the excavation was backfilled with clean "like" material.

SITE RECLAMATION AND RESTORATION

All of the fluid remained on the well pad. No reclamation activities will be required at this site.

CLOSURE REQUEST

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and the Bureau of Land Management grant closure approval for the Unocal HPC Federal #001 incident that occurred on October 23, 2018.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Sheldon L. Hitchcock HSE Coordinator

slhitchcock@concho.com

Sheldon Jutan

FIGURES

October 23, 2018

Unocal HPC Federal #001



TABLES

Table 1
COG Operating LLC.
Unocal Federal Oil Battery #001 (10/23/2018)
Eddy County, New Mexico

	Sample		Soil	Status		TPH (mg/kg)				Benzene	Total BTEX	Chloride		
Sample ID	Depth (ft)	Sample Date	In-Situ	Removed	GRO	DRO	MRO	Total	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD RRAL L	imits (mg/kg)				-	-	-	2,500	-	-	1,000	10	50	20,000
BTTM-1	1	3/13/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	32
BTTM-2	1	3/13/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	32
BTTM-3	3	3/31/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	32
BTTM-4	3	3/13/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	32
BTTM-5	3	3/13/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	32
BTTM-6	3	3/31/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	32
NORTH	N/A	3/13/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	16
SOUTH	N/A	3/13/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	<16.0
EAST	N/A	3/31/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	<16.0
WEST	N/A	3/13/2019	Х		<10.0	<10.0	<10.0	0.0	<10.0	<10.0	0.0	<0.050	<0.300	<16.0

APPENDIX A

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

Responsible Party

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Nam	ontact Name					elephone	
Contact email					Incident #	(assigned by OCD	9)
Contact mailing address					•		
			Location	ı of R	elease So	ource	
T. die 1			Locuion	. 01 11			
Latitude			(NAD 83 in de	lecimal de	Longitude _ grees to 5 decin	nal places)	
Site Name					Site Type		
Date Release	Discovered				API# (if app	olicable)	
Unit Letter	Section	Township	Range		Coun	nty	
Surface Owner	:: State	☐ Federal ☐ Tr	ibal 🔲 Private ((Name:)
			Nature an	d Vol	umo of I	Dalansa	
Crude Oil	Material	(s) Released (Select all Volume Released		ch calculat	ions or specific	Volume Reco	e volumes provided below) overed (bbls)
Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)	
		Is the concentrate		chloride	in the	Yes N	No
Condensa	te	produced water > Volume Release				Volume Reco	overed (bbls)
Natural G		Volume Release				Volume Reco	
	er (describe) Volume/Weight Released (provide units			de units)	<u> </u>		ght Recovered (provide units)
				Q			
Cause of Rele	ease						

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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?		
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?
	Initial Re	sponse
The responsible p	varty must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and t	he environment.
Released materials ha	we been contained via the use of berms or di	kes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	vhy:
Per 19 15 29.8 B. (4) NM	AC the responsible party may commence re	mediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial e	fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environment failed to adequately investigations.	required to report and/or file certain release notifi- ment. The acceptance of a C-141 report by the Od- ate and remediate contamination that pose a threa	est of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have t to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature:	Opeant	Date:
email:		Telephone:
OCD Only		
Received by:		Date:

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?	(ft bgs)			
Did this release impact groundwater or surface water?				
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)?				
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 ver- contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical 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 wells. Field data 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 Photographs including date and GIS information Topographic/Aerial maps 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	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:	Title:			
Printed Name: Signature: Sheldon Quitare	Date:			
email:	Telephone:			
OCD Only				
Received by:	Date:			

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation point □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.1 □ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local limits of the compliance with any other federal, state, or local limits of the compliance with any other federal, state, or local limits of the compliance with any other federal, state, or local limits of the compliance with any other federal, state, or local limits of the compliance with any other federal, state, or local limits of the compliance with any other federal, state, or local limits of the compliance with any other federal state, or local limits of the compliance with any other federal state, or local limits of the compliance with any other federal state, or local limits of the compliance with any other federal state, or local limits of the compliance with any other federal state, or local limits of the compliance with any other federal state, or local limits of the compliance with any other federal state, or local limits of the compliance with any other federal state.	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: Sheldon Jutan	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	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.

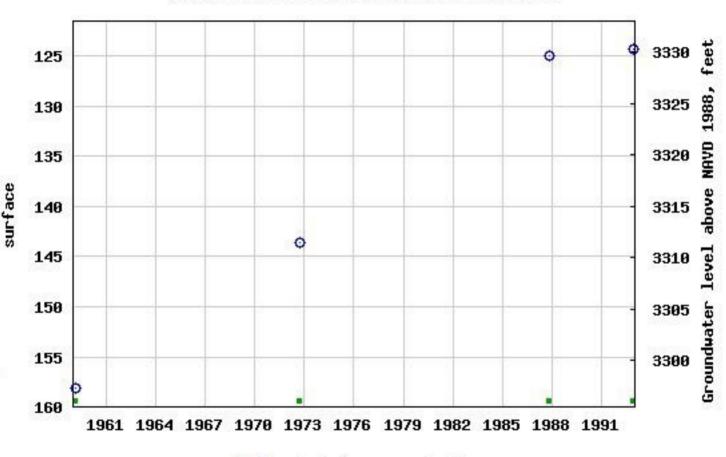
Closure Report Attachment Checklist: Each of the following is	tems must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.1	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
	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.
Closure Approved by:	Date:
Printed Name:	Title:

APPENDIX B



Depth to water level, feet below land

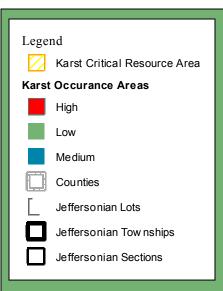
USGS 322333103461401 22S.31E.15.13214



Period of approved data





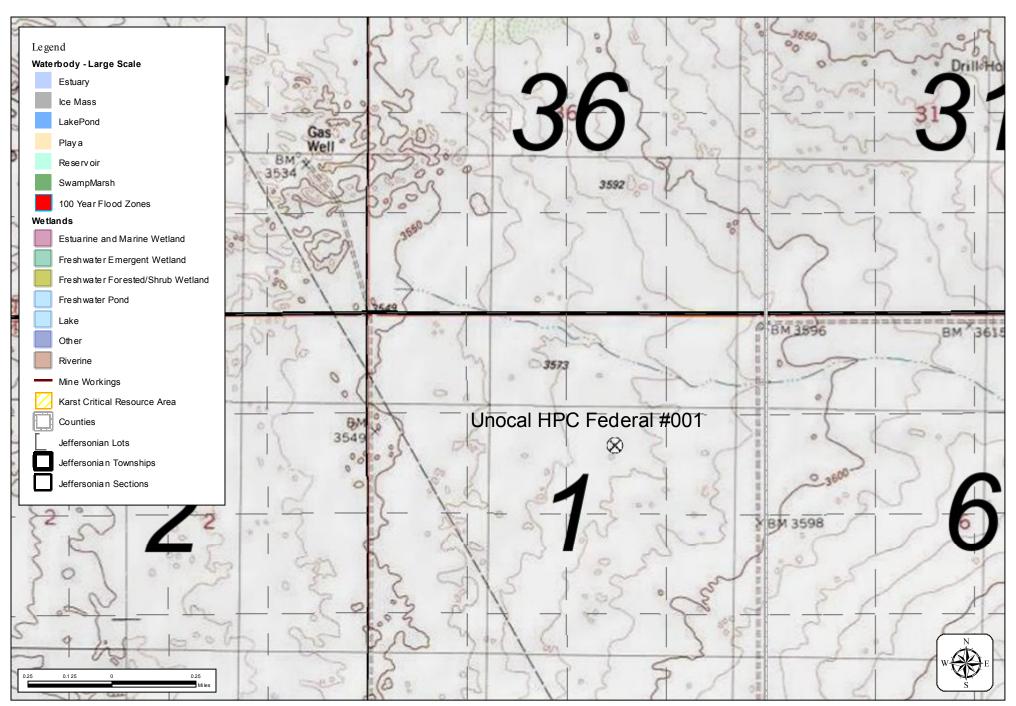


Unocal HPC Federal #001 ⊗









APPENDIX C



March 20, 2019

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: UNOCAL - HPC FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/14/19 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

A ... - b ... - d D. .. MC

Project Location: NOT GIVEN

Sample ID: BOTTOM - 1 (H901007-01)

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	03/15/2019	ND	2.00	100	2.00	5.23	
Toluene*	<0.050	0.050	03/15/2019	ND	2.13	107	2.00	0.349	
Ethylbenzene*	<0.050	0.050	03/15/2019	ND	2.27	113	2.00	1.03	
Total Xylenes*	<0.150	0.150	03/15/2019	ND	6.68	111	6.00	1.96	
Total BTEX	<0.300	0.300	03/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	164	81.8	200	2.99	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	199	99.5	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate: 1-Chloroctadecane	101	% 376-14	17						

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories *=Accredited Analyte

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



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: BOTTOM - 2 (H901007-02)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	164	81.8	200	2.99	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	199	99.5	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	93.3	% 41-142	?						

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

Cardinal Laboratories *=Accredited Analyte

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



COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: BOTTOM - 3 (H901007-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	< 0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	164	81.8	200	2.99	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	199	99.5	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	97.8 9	% 41-142							

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

97.7 %

37.6-147

Surrogate: 1-Chlorooctadecane



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: BOTTOM - 4 (H901007-04)

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	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	164	81.8	200	2.99	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	199	99.5	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	!						

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: BOTTOM - 5 (H901007-05)

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	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	164	81.8	200	2.99	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	199	99.5	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	99.5	% 41-142	?						

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: BOTTOM - 6 (H901007-06)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	164	81.8	200	2.99	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	199	99.5	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	92.7	% 41-142							

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

93.1 %

37.6-147



COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: NORTH (H901007-07)

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	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	193	96.5	200	7.41	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	197	98.3	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	93.1	% 41-142	•						
Surrogate: 1-Chlorooctadecane	94.8	% 37.6-14	7						

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Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: SOUTH (H901007-08)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	193	96.5	200	7.41	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	197	98.3	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	98.5	% 41-142	?						

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil
Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: EAST (H901007-09)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	193	96.5	200	7.41	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	197	98.3	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	99.2	% 41-142	!						

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 03/14/2019 Sampling Date: 03/13/2019

Reported: 03/20/2019 Sampling Type: Soil

Project Name: UNOCAL - HPC FEDERAL #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: WEST (H901007-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2019	ND	2.07	103	2.00	5.00	
Toluene*	<0.050	0.050	03/19/2019	ND	1.89	94.5	2.00	5.88	
Ethylbenzene*	< 0.050	0.050	03/19/2019	ND	2.00	100	2.00	7.29	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.14	102	6.00	7.36	
Total BTEX	<0.300	0.300	03/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2019	ND	193	96.5	200	7.41	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	197	98.3	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					
Surrogate: 1-Chlorooctane	93.0 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94 0 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

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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.	CUG Operating LLC		BILL TO			ANALYSIS REQUEST	
Project Manager: Dakota Neel	a Neel		P.O. #:			- 1	
Address: 2208 West Main	5		Company: COG Operating LLC	rating LLC			
City: Artesia	State: NM	Zip 88210		Neill (
Phone #: (575) 746-2010	6-2010 Fax #:		Address: 600 W Illinois	Illinois			
Project #:	Project Owner:		City: Midland	O.			
Project Name: UNOCAL	CAL-HAC FEDERAL #1	14 14	State: TX Zip: 79701	2			
Project Location:			Phone #: (432) 221-0388	60			
Sampler Name: Dakota Neel	a Neel		Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING			
Lab I.D. 9	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	TPH	Chloride	
	BOTTOM-1		3/13/19	1 macy	7	4	
	B07701-2	7		1:0500	۴	×	
	BOTTOM-3	1 1		1:10pm +	×	*	
7	Bo770M-4	1		1:150m x	×	7	
	Botrom-5			::20pr x	K	4	
6	80770M-6	2		1:2505	4	`	
	NORTH	1 1		1:301- x	٧		
) X	SOUTH			1:35pm 5	K		
2	EAST	1		1:40pm X	Y	×	
10	WES7		No.	1:45 cm &	7		
PLEASE NOTE: Liability and Damages. Card. inalyses. All claims including those for neglig ervice. In no event shall Cardinal be liable for ffiliates or successors arising out of or related.	LEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the nalyses. 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 renvice. In no event shall Cardinal be liable for incidental or consequental damages, including whoth limitative liables are successors arising out of or related to the performance of sections of the cardinal shall be deemed whether the cardinal shall be deemed whether the performance of sections and the cardinal shall be deemed whether the cardi	y claim arising whether based in contract leemed waived unless made in writing and without limitation, business interruptions, k	or tort, shall be limited to the amount pa received by Cardinal within 30 days aft oss of use, or loss of profits incurred by	id by the client for the er completion of the applicab client, its subsidiaries,	ř ·	-	ŀ
Relinquished By:	Relinquished By: Date: Received/By:	Received By:	is based upon any of the above stated re	Phone Result:	□ Yes	□ No Add'l Phone #:	
	3-14-19 Time:	a line	MILL	Fax Result: REMARKS:	□ Yes		
Relinquished By:	Date:	Received By:	Casalar of				

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

#97

Sample Condition
Cool Intact

Yes Yes
No No

9

CHECKED BY: (Initials)

Time:

APPENDIX D





