Closure Report



Site Description							
Site Name:	Pan Head Fee #21H						
Company:	COG Operating LLC						
Legal Description:	U/L D, Section 11, T17S, R32E						
County:	Lea County, NM						
GPS Coordinates:	N 32.12498° W 104.10342°						

Release Data							
Date of Release:	04/03/2016						
Type of Release:	Oil						
Source of Release:	Well head leak						
Volume of Release:	25 bbls						
Volume Recovered:	24 bbls						

Remediation Specifications								
Remediation Parameters:	It was decided by COG personnel, BBC personnel, and NMOCD, that remediation was unnecessary due to the fact that the samples were all clean.							
Remediation Activities:	Not performed							

Plan Sent to OCD:	n/a	n/a
OCD Approval of Plan:	n/a	n/a
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation								
Initial C-141	Signed 04/14/2016							
Final C-141	Signed 08/08/2016							
Site Diagram	April 2016							
Groundwater Plot	125'							
TOPO Maps	June 2016							
Lab Summary	05/20/2016							
Lab Analysis	05/20/2016							
Correspondence	None, meeting resulted in no plan due to clean samples							

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc. 08/12/2016

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II Bill 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

* Attach Additional Sheets If Necessary.

State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-141

Revised August 8, 2011

			Rele	ease Notific	cation	and Co	orrective A	ction			
					(OPERA'	ГOR		l Report	П	Final Report
Name of Co	mpany: C	OG Operati	ng LLC			Contact: Robert McNeill					
Address: 60				d TX 79701			No. 432-230-007	77			
Facility Nar	ne: PAN F	EAD FEE #	021H		F	acility Typ	e: Battery				
Surface Ow	ner:	4		Mineral C)wner: F	ee	·	API No.	30-025-40)886	
				LOCA	ATION	OF RE	LEASE				
Unit Letter D	Section 11	Township 17S	Range 32E	Feet from the 330	ı	South Line Iorth	Feet from the 330	East/West Line West		County Lea	У
Latitude 32.8554306 Longitude -103.7446976											
				NAT	URE (OF REL	EASE				
Type of Relea	ase:					Volume of	Release:	Volume R	ecovered:		
Oil Source of Rel	lease:				į	25 bbls Date and F	Iour of Occurrence	24 bbls	Hour of Disc	overv	
Wellhead						4/3/2016 9		4/3/2016 9		Overy.	
Was Immedia	ite Notice G					If YES, To					
			Yes _	No 🛛 Not Re	equired		es - NMOCD				
By Whom? Was a Watero	Robert Gru						Iour: 4/4/2016 6:5				******
was a water	ourse Reac		Yes 🛚	No		II YES, VO	lume Impacting th	ie watercourse,			
If a Watercou	rse was Imp	acted, Descri	be Fully.*	1							
	*										
Describe Cau											
This release	was caused	by a broken c	hemical li	ne the pumping te	e off the	wellhead. V	acuum trucks wei	re dispatched to rec	over standin	g fluid.	
Describe Area	Affected a	nd Cleanup A	ction Tak	en.*							
		-									
This release o	ccurred at the	he wellhead a	nd stayed	on location. Conc	cho will h	ave the spil	site sampled to d	elineate any possib	le contamina	ation fr	om the
release and w	e will preser	ni a remediau	on work p	ian to the NMOC	D for app	provai prior	to any significant	remediation work.			
								derstand that pursu			
								ive actions for relea			
								at to ground water,			
or the environ	ment. In ac	ldition, NMO	CD accept					esponsibility for co			
federal, state,	or local law	s and/or regu	lations.								
		. ,		1			OIL CONS	SERVATION 1	<u>DIVISIO</u>	<u>N</u>	
Cionatura	TRUL	12mm f									
Signature: Approved by Environmental Specialist:											
Printed Name: Robert Grubbs Jr.									ļ		
Tial a. Carrier T	7	t-1 C 1 ·		-		1.5		D			
Title: Senior I	znvironmen	tai Coordinate)[pproval Dat	e:	Expiration D	rate:		
E-mail Addres	ss: rgrubbs@	@concho.com		······	C	onditions of	Approval:		Attached		
Date: April	14, 2016		Pho	one: 432-683-7443	3						

<u>District I</u> 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**

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

pTO1424538405

1,220 3. 50, 1 1411	eis Di., Suitt		·	Sa	ınta F	e, NM 875	05					
			Rele	ease Notific	atio	n and Co	rrective A	ction	1			
						OPERA'	ГOR		☐ Initia	al Report	\boxtimes	Final Report
Name of Co	mpany: C	OG Operati	ng LLC			Contact: Re	bert McNeill					
Address: 60	Address: 600 West Illinois Avenue, Midland, TX 79701						No. 432-230-00	77				
Facility Nat	ne: Pan H	ead Fee #02	1H			Facility Typ	e: Battery					
Surface Ow	Surface Owner: Mineral Own								API No	. 30-025-4	10886	
						N OF RE	EACE		1	. 50 525		
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	Fast/V	West Line	County		
Onn Lener	Beetion	Township	l realize	l con nom die	11014	Doddi Line	T cet itoin ine	Lust	Vest Ellie	County		
D	11	178	32E	330		North	330	1	West	Lea Count	y, NM	,
			1	Latitude <u>N 32.1</u> NAT		Longitu OF REL	ide <u>W 104.1034</u> EASE	<u>2°</u>				
Type of Rele						Volume of	Release: 25 bbls		Volume F	Recovered:	24 bbls	
Source of Re	lease: Well	l head		4		04/03/2010	lour of Occuπenc 5 @ 9:00 am	e		Hour of Dis 16 @ 9:00 a		
Was Immedi	ate Notice (Yes [No Not R	equired	If YES, To Jamie Key	Whom? es-NMOCD					
By Whom?	Robert Grui	bbs Jr., COG	Operating			Date and I-	lour: 04/04/2016	@ 6:55	pm			
Was a Water		ched?	Yes 🗵] No			olume Impacting t					
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.	*		-1						
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*								
This release recovered 24		by a broken c	hemical li	ne the pumping to	e off th	ie wellhead. \	acuum trucks we	re dispa	itched to re	cover the sta	anding 1	fluid. They
Describe Are	a Affected	and Cleanup A	Action Tal	ken.*								
				d on location. The e spill for this site			d the analytical da	ta was i	reviewed in	a meeting v	vith Jar	nie Keyes of
regulations a public health should their or the enviro	Il operators or the envi operations h nment. In a	are required t ronment. The nave failed to	o report as acceptant adequately OCD accep	nd/or file certain in ce of a C-141 report investigate and it	elease of ort by the emedia	notifications a ne NMOCD m te contaminat	knowledge and u nd perform correct arked as "Final R ion that pose a thre the operator of the	tive act eport" o eat to g	ions for rel loes not rel round wate	eases which ieve the ope r, surface wa	may er rator of ater, hu	ndanger Tliability man health
	1.0						OIL CON	SERV	<u>ATION</u>	DIVISIO	<u>NC</u>	
Signature:		160	ent s	1					Jamit	21huc		
Printed Nam	e: Robert C						Environmental S	-	t: /	- /-		
Title: Senior	Environmo	ental Coordina	itor			Approval Da	te: 08/17/2016		Expiration	Date: ///		
E-mail Addr	ess: rgrubb	s@concho.co	m			Conditions o	f Approval:			Attached		

Phone: (432) 683-7443 August 8, 2016 * Attach Additional Sheets If Necessary





Groundwater Plot

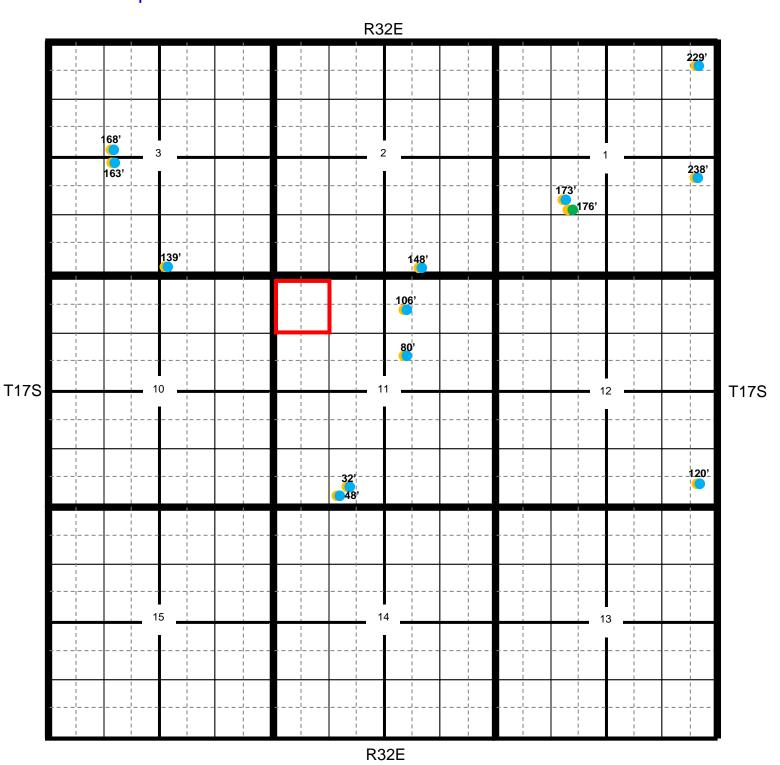
Concho Pan Head Fee #21H

CountyUnit LetterSectionTownshipRangeLeaD1117S32E

Trend Map 125'

Location

OCD



USGS

SEO

All Databases

Concho Pan Head Fee #21H

CountyUnit LetterSectionTownshipRangeLeaD1117S32E

Trend Map 125'

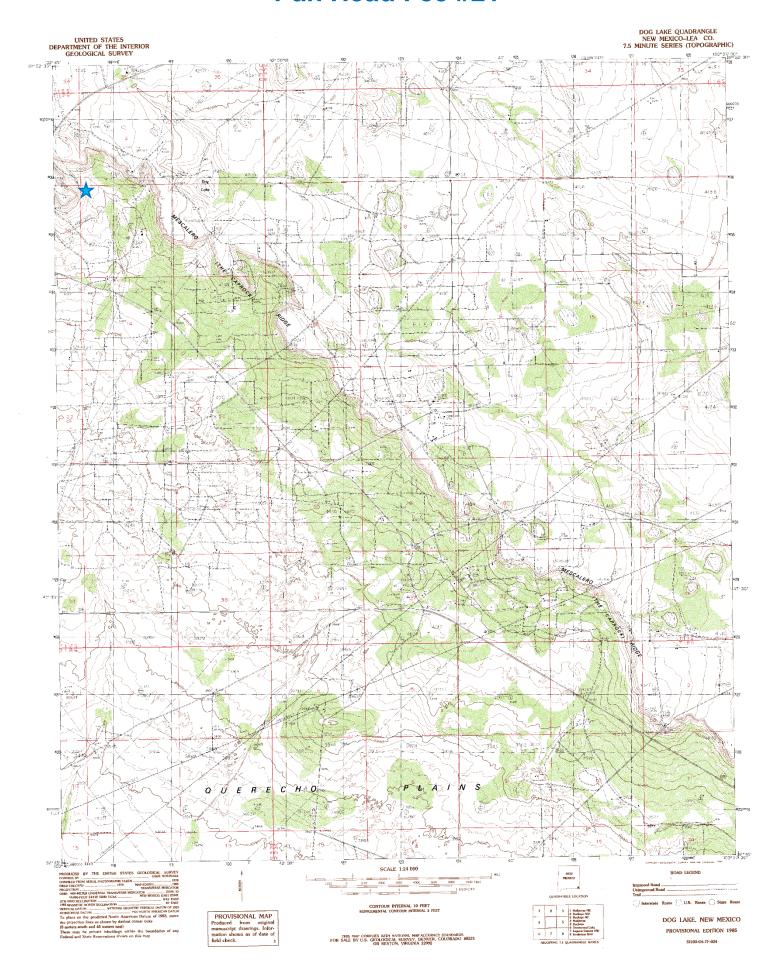
1



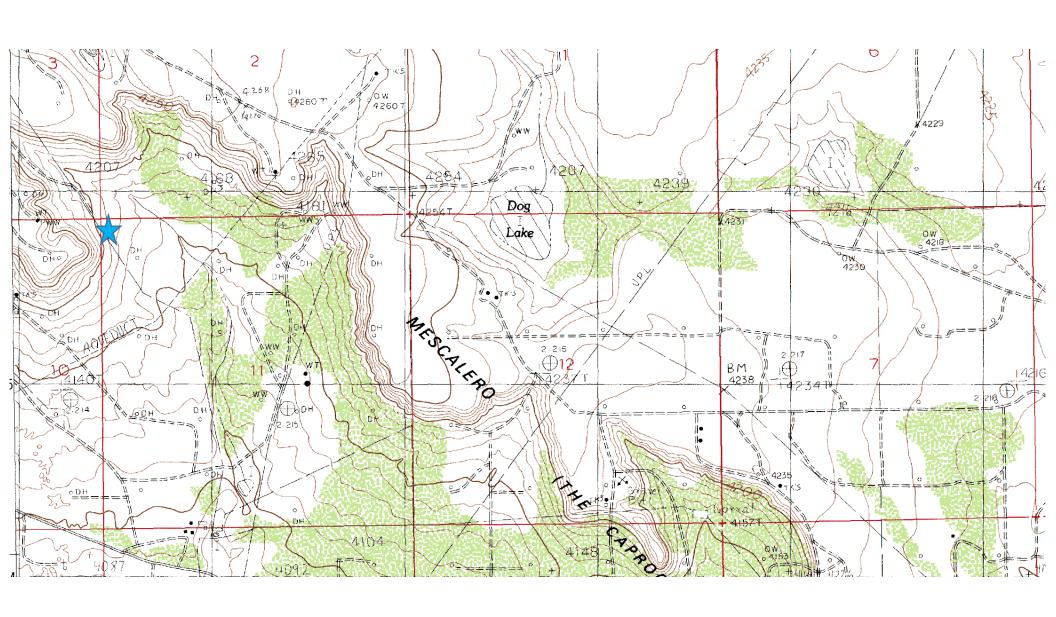
3

Concho

Pan Head Fee #21



Concho Pan Head Fee #21H



Laboratory Analytical Results Summary Pan Head Fee #21H

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5//20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5//20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	<0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	< 0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5//20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	< 0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	< 0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15.6	<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5//20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5//20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	<0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



June 06, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: PANHEAD FEE #21H

Enclosed are the results of analyses for samples received by the laboratory on 06/01/16 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S1 - 1' (H601193-01)

BTEX 8021B	mg/	'kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	< 0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	62.4	% 35-147	7						
Surrogate: 1-Chlorooctadecane	82.3	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S1 - 2' (H601193-02)

BTEX 8021B	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	62.9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	82.7	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S1 - 3' (H601193-03)

BTEX 8021B	mg/	mg/kg Analyzed E							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	64.1	% 35-147	7						
Surrogate: 1-Chlorooctadecane	81.5	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S1 - 4' (H601193-04)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	57.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	73.3	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S2 - 1' (H601193-05)

BTEX 8021B	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	63.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	79.7	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S2 - 2' (H601193-06)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	65.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	85.3	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S2 - 3' (H601193-07)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.6-14	0						
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	53.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	73.4	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S2 - 4' (H601193-08)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	62.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	76.3	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name:PANHEAD FEE #21HSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: S3 - 1' (H601193-09)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.6-14	0						
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	15.6	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	62.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	82.0	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S3 - 2' (H601193-10)

BTEX 8021B	mg/	mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	58.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	75.6	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S3 - 3' (H601193-11)

BTEX 8021B	mg/	'kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	62.3	% 35-147	7						
Surrogate: 1-Chlorooctadecane	84.3	% 28-171	!						

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S3 - 4' (H601193-12)

BTEX 8021B	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	60.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	78.1	% 28-171	,						

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S4 - 1' (H601193-13)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	45.0	% 35-147	7						
Surrogate: 1-Chlorooctadecane	62.0	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S4 - 2' (H601193-14)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/03/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	64.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	76.3	28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S4 - 3' (H601193-15)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	56.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	75.1	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S4 - 4' (H601193-16)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	59.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	81.2	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S5 - 1' (H601193-17)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	61.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	81.9	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S5 - 2' (H601193-18)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	60.0	% 35-147	7						
Surrogate: 1-Chlorooctadecane	80.6	% 28-171							

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: S5 - 3' (H601193-19)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	47.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	63.6	% 28-171							

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NOT GIVEN

Analytical Results For:

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

Received: 06/01/2016 Sampling Date: 05/20/2016

Reported: 06/06/2016 Sampling Type: Soil

Project Name: PANHEAD FEE #21H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: S5 - 4' (H601193-20)

Project Location:

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.6-14	0						
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	
Surrogate: 1-Chlorooctane	57.7	% 35-147	,						
Surrogate: 1-Chlorooctadecane	79.0	% 28-171							

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside if 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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Celeg D. Freene



(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Maile.	COG Operating LLC			770					
Project Manager:	Dakota Neel		P.O. #:		-		ANALYSIS	REQUEST	
Address: 2208	2208 West Main		nv.	Oneration III					
City: Artesia	State: NM	Zip 88210		Robert McNeill					
Phone #:	(575) 748-6930 Fax # :		ess:	600 W Illinois					
Project #:	Project Owner:	er:		Midland		_	_		
Project Name: P	PANHEAD FEE #21h		X	Zin: 79701					
Project Location:									
Complex Name			Phone #: (432) 221-0388	21-0388					
Sampler Name:	Dakota Neel		Fax #:						
FOR LAB USE ONLY		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 TIME	TPH	Chloride			
) -	S1-1'		×	>	4	-			1
11	\$1-2'		× 5/	5/20/16 8:00 AM	×				
	S1-3		× 5/	5/20/16 8:00 AM	×				
	\$14.		× 5/	5/20/16 8:00 AM	×				
PLEASE NOTE: Liability and Da analyses. All claims including the service. In no event shall Cardina affiliates or successors arising out the liability of the l	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 the client for the aralyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	re remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the over shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the bages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarie hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ract or tort, shall be limited to the an and received by Cardinal within 30 ns, loss of use, or loss of profits inc aim is based upon any of the above	mount paid by the client for the 0 days after completion of the a curred by client, its subsidiaries, a stated reasons or otherwise.	pplicable				
Relinquished By:	Date:	Received By:	denson	Phone Result:	It: Yes	S No	Add'l Phone #: Add'l Fax #:		
	Time:	Deceived by.		lcarrasco@concho.com atrujillo@concho.com	concho.con	om			

s. Please fax written changes to 575-393-2476

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

Sample Condition
Cool Intact
Wes Hyes
No No



Company Name:	COG Operating LLC								31118							5	٥		2		1				
Project Manager:	Dakota Neel				-	P.O. #:	#	90	adoka disabili],	AIVAL I SIS	75	10	7	2	KEWUESI	1-	1	-		-
Address: 2208 V	2208 West Main				_	Company:	npa	3	COG Ope	COG Operating LLC							17. 7			1					
City: Artesia	State: NM		Zip	ip 88210	_	Attn:	.		Robert McNeill	cNeill															
Phone #:	(575) 748-6930 Fax #:				_	Address:	res	99	600 W Illinois	Illinois															_
Project #:	Project Owner:	ner:			_	City:			Midland	id.										_		1			
Project Name: PA	PANHEAD FEE #21h				(0)	State: TX	e: T	×	Zip: 79701	01										_			_		
Project Location:					-	ď	ne t	- 14	Phone #: (432) 221-0388	0													_		_
Sampler Name:	Dakota Neel				TI .	Fax #:	#	1	04) 441-000	ō	345														
FOR LAB USE ONLY				MATRIX	1	P	RE	PRESERV.	/. SAMPLING	ING															-
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	BTEX	TPH	Chloride												
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10	S2-2'	+					×		5/20/16	8:00 AM	×	×													
)-	S2-3	1	Т			-	×		5/20/16	8:00 AM	×	×								+			+		\dagger
a	S2-4'	_					×		5/20/16	8:00 AM	×	×													
EASE NOTE: Liability and Dam alyses. All claims including those rvice. In no event shall Cardinal	LEASE 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 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 arvice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business intermethors have of use or located and the completion of the applicable	any clain e deemed	n arisin I waive	ng whether based in contracted unless made in writing a strong business interruptions	t or to	rt, sha	ll be l	mited dinal v	to the amount pai vithin 30 days afte	d by the client for the r completion of the a	pplicable		-	-											
filiales or successors arising out of or related to the performantelinquished By:	f or related to the performance of services hereunder by	Cardinal,	ceiv	services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise Datter Received By: Phone Res	is ba	sed u	pon ar	y of th	e above stated re	asons or otherwise. Phone Result:			□ No		Add'l Phone #:	none	#								-
elinquished By:		75	Ceiv	Received By:	6	2	8	nson	7	Fax Result: Yes REMARKS: dneel2@concho.com lcarrasco@concho.com atrujillo@concho.com	inche iconc onche	□ Yes com cho.co	3		Add'l Fax #:	* #			1						
Delivered By: (Circle One)			•		ion		CHE	E C K	HECKED BY:																
Sampler - UPS - Bu	Bus - Other:	スクロ	0	HYes HYes	n				als)																

FORM-006 R 2.0 s. Please fax written changes to 575-393-2476



	COG Operating LLC						000000			0	BILL 70		DESCRIPTION OF THE PERSON OF T		1		ANAI YSIS			150	1			1
Project Manager:	Dakota Neel						7.1	P.O. #:	#	8		600000000000000000000000000000000000000	T	1		إ_	- 2		1	עבעטבטו	1	-	-	
Address: 2208 West Main	est Main						0	Company:	par	₹	COG Operating LLC	rating LLC								12				
City: Artesia	State: NM		Z	Zip 88	88210		D	Attn:			Robert McNeill	Neil												
Phone #: (5	(575) 748-6930 Fax #:						D	Address:	sse.	71	600 W Illinois	Illinois				_				_				
Project #:	Project Owner:	ner:					0	City:			Midland	D.								_		_		
Project Name: PAN	PANHEAD FEE #21h						S	State: TX	-	×	Zip: 79701	01												
Project Location:	×						0	hor	ie #	14	Phone #: (432) 221-0388				_							_	_	
Sampler Name:	Dakota Neel						п	Eav #	*						2									
FOR LAB USE ONLY		┨	Н		MATRIX	Ž	ŀ	1	3		7					_	_		_					
Lab I.D.	Sample I.D.	OR (C)OMP.	AINERS	OWATER VATER				SE:	OL É	SE: OL	SAME LING	G												
Sollday		(G)RA		GROU	SOIL	SLUD	OTHE	ACID/E	ICE / C	OTHE	DATE	TIME	BTEX	TPH	Chlorid			4						
2.	S3-1'	-							×		5/20/16	8:00 AM	×	×		+	+	1	7	+	+	+	+	
0	S3-2'	-							×		5/20/16	8:00 AM	×	×				1			+	-		
; =	S3-3 ¹	+	Т		-	-			×		5/20/16	8:00 AM	×	×	_				T				-	
12	S3-4'								×		5/20/16	8:00 AM	×	×										
alyses. All claims including those rivice. In no event shall Cardinal be filiates or successors arising out of c	talyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in contract or tort, shall be limited to the amount paid by the client for the arvice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, filiates or successors arising out of or related to the performance of services hereurofer by Cardinal reporters.	e deeme	d waiv	ng whether bas ed unless made ation, business i	in wri	ontrac ting ar otions,	t or tor d rece loss o	t, sha ived b f use,	y Can or los	mited dinal v	to the amount paid within 30 days after rofits incurred by cl	by the client for the completion of the ient, its subsidiaries	e applicable				1	-	- 1	ı	- 1	ŀ	+	L
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	Time; / O	0	7	Z		I	R	2	7	2	Ruson	REMARKS:		□ Yes	□ No		Add'l Fax #:							
elinquished By:	Date!	Re	cei	Received By:		(,	5	(lcarrasco@concho.com	DCON	tho co	3							Marie Common		

FORM-006 R 2.0 s. Please fax written changes to 575-393-2476

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

5.28

Sample Condition
Cool Intact
Lyres Lyres
No No

Time:

atrujillo@concho.com



Company Name:	COG Operating LLC	C					- 1						3	0.25							3		1	1		1			1
Project Manager:	Dakota Neel									P.0	P.O. #:	- 8	į.	dau SSLOBLOS		\neg		+	1	AINALTOIS	0		1	5	KEQUESI	_ -		-	+
Address: 2208 V	2208 West Main			1)					1	Cor	Company:	iny:		COG Operating LLC	iting LLC	1						7							10.7
City: Artesia		State: NM		Zip	ъ	00	88210	0		Attn:				Robert McNeill	Veill (9
Phone #:	(575) 748-6930	Fax #:								Add	Address:	Š		600 W Illinois	inois				_								UL P		_
Project #:		Project Owner:	ň							City:	.,			Midland					_	_						-		_	
Project Name: PA	PANHEAD FEE #21h									Stat	State: TX	\overline{x}	N	Zip: 79701	_													_	
Project Location:							- 1			Pho	Phone #:	#	432	(432) 221-0388					_									_	-
Sampler Name:	Dakota Neel									Fax #:	#								1				_		V 1				
FOR LAB USE ONLY			┪	\neg	\neg		MATRIX	R	L	<u>_</u>	PRESERV	SER	?	SAMPLING	Ğ			_		_									
Lab I.D.	Sample I.D.	Þ	OR (C)OMP.	INERS	OWATER	VATER		-)L																	
EPINO1H			(G)RAB	# CONT	GROUN	WASTE	SOIL	OIL	SLUDGI	OTHER	ACID/BA	ICE / CC	OTHER	DATE	IME	BTEX	ГРН	Chloride											
13	\$4-1'								_	-	_	_		5/20/16	_	×	×	-	+	+			+		+	1		+	+
니	\$4-2'											×		5/20/16	8:00 AM	×	×			+								-	-
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g.	\$4-4'											×		5/20/16	8:00 AM	×	×												
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 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 for the sprincable 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	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 the client for the arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In one event shall Cardinal which 30 days after completion of the a service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and a state of the state of the above stated reasons or otherwise.	's exclusive remedy for any claim arising whether based in contract or it use whatsoever shall be deemed waived unless made in writing and retental damages, including without limitation, business interruptions, loss services hereunder by Cardinal, regardless of whether such claim is by	ny claim deemed without ardinal,	arisin waive limitat	whet d unle ion, bu	her ba ss ma ss ma usines	ised in de in w	contra riting uption	and res, loss	ort, sh ceived of use	all be by Ca e, or lo	limite ardina ass of any of	d to the l within profits the ab	, shall be limited to the amount paid b wed by Cardinal within 30 days after or use, or loss of profits incurred by clie use upon any of the above stated reast	id by the client for the ar completion of the ar client, its subsidiaries, asons or otherwise.	pplicabl	0												
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Company Name:	COG Operating LLC		- 1					113	0.7			1		_	ANAI VSIS	610			12			
Project Manager:	Dakota Neel				P.C	P.O. #:	8	ě	9.		7		4	٠,	1			70000	- 2	7		+
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FOR LAB USE ONLY	*	\dashv	┥	MATRIX		PRESERV	SE	≥	SAMPI ING	S												_
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP.	CONTAINERS	GROUNDWATER WASTEWATER GOIL DIL GLUDGE	THER:	CID/BASE:	CE / COOL	THER:	DATE		TEX	РН	hloride									
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N	S5-3'						×		5/20/16	8:00 AM	×	×			-	4						+
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