

May 29, 2015

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

Re: Ebony State #4

30-015-39412 Sec. 25, T17S-R27E Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated 12/22/2015.

Background

The release was caused by a split on the weld of a 6" poly line. The split occurred on a Y that ties into the manifold and main system. Vacuum trucks were dispatched to recover all standing fluid. An area of approximately 1200 feet by 400 feet was impacted. The release ran down a power line right-a-way and across a neighboring well pad location.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of **Ten** due to the depth of groundwater at approximately **78'** per New Mexico Office of the State Engineer.

Soil Assessment and Analytical Results

Initial soil samples were taken on 1-19-2015. Samples indicated TPH and BTEX were within RRALs for site ranking ten. Chloride concentration in several sampling areas were high for surface reclamation, therefore further delineation was conducted on 4-16-2015. The impacted area was divided into 11 sampling areas and samples were taken in one foot intervals to the depth of 4' at which 2 foot intervals were sampled (see attached site diagram).

Work Plan

COG proposes the following excavations based, which will be backfilled with like material. The areas in dark red are proposed excavation. Please see the attached diagram for corresponding analytical data.

S1 – 3' Excavation

S2 - 2' Excavation

S₃ - 1' Excavation

S4 - 3' Excavation

S₅ – 3' Excavation

S6 - No excavation

S7 – No Excavation

S8 - 3' Excavation

S9 - No Excavation

S₁₀ - No Excavation

S₁₁ - No Excavation



If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact my with any questions or concerns at (505) 350-1336

Sincerely,

Amanda Trujillo

Senior Environmental Scientist

Enclosed

- (1) C-141 Initial (Copy)
- (2) Site Diagram and Summary Table
- (3) Laboratory Analysis

-IO	19600	20000	10400	11200	1920	1200	- - -	3920	4000	32	16	-io	3400	49	64	49	12800	8130	7520	16	CI-	12800	2240	8800	6130	736	464			
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Site Ranking: Ten Depth to GW per SEO: 78

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERA7	TOR		` ⊠ Initia	ıl Report	П	Final Report
Name of Co	mpany: C	OG Operatin	ng LLC				pert McNeill	_		P		T III T T T T T T T T T T T T T T T T T
		inois Avenue		d TX 79701	,	Telephone N	lo. 432-230-007	77				
Facility Nar						Facility Typ			-			
Surface Ow	ner: State	_		Mineral O	wner				ADING	. 30-015-39	1412	
Burrace Ow	ner. State								APINO	. 30-013-35	412	
Unit Letter	Section	T	D			OF REL		1 70 . 77:				
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			Lati	tude32.8064185	88287	5 Longitude	-104.22475851	5762				
				NAT	URE	OF RELE	EASE					
Type of Relea						Volume of	Release:		Volume R	ecovered:		
Produced Wa						3500 bbls P			1500 bbls			
Source of Rel	ease:					1	our of Occurrence	e:		Hour of Disc	overy	:
Was Immedia	ta Notica C	livan?				12/11/2014 If YES, To		1	12/11/201	4 8:00 am		
was militudia	ite Notice C	_	Yes 🔲	No 🗌 Not Red	quired		her – NMOCD					
By Whom?	Amanda T	rujillo	_			Date and H	our: 12/11/2014 5	5:41 pm				
Was a Watero	ourse Reac	hed?					lume Impacting the					
			Yes 🛚	No								
If a Watercou	rse was Imp	pacted, Descri	be Fully.*									
Describe Cau The release w dispatched to	as caused b	y a split on the	e weld of	Taken.* a 6" poly line. The	e split o	ccurred on a Y	Y that ties into the	e manifo	old and main	n system. Va	cuum	trucks were
way. Concho NMOCD for a	riginated be will have th approval pri	hind the Ebon te spill site san for to any sign	y State #4 npled to d ificant ren	. The impacted are elineate any possil nediation work.	ble con	tamination fro	m the release and	d we wil	l present a	remediation	work į	plan to the
regulations all public health e should their o	operators a or the environer perations had ment. In ac	are required to conment. The a live failed to ac dition, NMOC	report and acceptance lequately CD accept	is true and comple d/or file certain rel e of a C-141 repor investigate and rer ance of a C-141 re	lease no t by the mediate	tifications and NMOCD ma contaminatio	d perform correct rked as "Final Re n that pose a thre	tive action port" do eat to gro	ons for release ones not relies ound water,	ases which n eve the opera surface wate	nay en tor of er, hur	danger liability nan health
Signature:	$\leq A$		أبذا	le .			OIL CONS	SERV.	ATION 1	DIVISIO	<u>1</u>	
Printed Name	Amanda 1	Γrujillo			A	Approved by F	Environmental Sp	ecialist:				
Title: Senior E	Environmen	tal Coordinato	r		A	Approval Date	:	E	Expiration D	ate:		
E-mail Addres	ss: <u>atrujillo@</u>	@concho.com	_		c	Conditions of	Approval:			Attached		
Date: Decer	nber 22 20	14 Ph	one: 575-	748-6940								

^{*} Attach Additional Sheets If Necessary



February 05, 2015

GARRETT MERKET

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: EBONY STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 01/30/15 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4

Project Number: Project Location:

NONE GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S1 - 1' (H500281-01)

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	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.79	6 61-154	12				93 d.J.		
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	02/02/2015	ND	416	104	400	7.41	
TPH 8015M	mg/l	kg	Analyze	d By: MS			151		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	215	107	200	2.00	
Surrogate: 1-Chlorooctane	99.49	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	118 %	52.1-176	5						

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 waive unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keens -



COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4

Project Number: Project Location:

NONE GIVEN NOT GIVEN

120%

52,1-176

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes) Celey D. Keene

Sample Received By:

Sample ID: S1 - 2' (H500281-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms		<u>.</u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.9	% 61-154	,						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	02/02/2015	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	02/02/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	215	107	200	2.00	
Surrogate: 1-Chlorooctane	103 9	6 47.2-15	7						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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COG OPERATING
GARRETT MERKET
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4

Project Number: Project Location:

NONE GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S1 - 3' (H500281-03)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.59	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	02/02/2015	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	02/02/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	215	107	200	2.00	
Surrogate: 1-Chlorooctane	101 %	6 47.2-157	7				89		
Surrogate: 1-Chlorooctadecane	119%	52.1-176	5						

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*=Accredited Analyte

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Celeg L. Keine -



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4
NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S1 - 4' (H500281-04)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9 9	61-154							_
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	02/02/2015	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	02/02/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	215	107	200	2.00	
Surrogate: 1-Chlorooctane	97.89	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	115%	52.1-176	5						

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*=Accredited Analyte

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Celeg Litreens -



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4

Project Number: Project Location: NONE GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S2 - 1' (H500281-05)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	6 61-154				100			-
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	02/02/2015	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	02/02/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	215	107	200	2.00	
Surrogate: 1-Chlorooctane	98.99	6 47.2-15	7			7,			
Surrogate: 1-Chlorooctadecane	1149	52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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Celing T. Keine



COG OPERATING
GARRETT MERKET
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

01/30/2015

Reported: Project Name: 02/05/2015 EBONY STATE #4

Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S2 - 2' (H500281-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 61-154	125						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	02/02/2015	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	02/02/2015	ND	207	104	200	1.08	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	215	107	200	2.00	
Surrogate: 1-Chlorooctane	103 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	1179	52.1-170	5						

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Celey D. Kerno



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

te: 01/29/2015

Sc

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes) Celey D. Keene

Sample ID: S2 - 3' (H500281-07)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2015	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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	99.69	47.2-15	7			W. H			je.
Surrogate: 1-Chlorooctadecane	1199	52.1-170	6						

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Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4
NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S2 - 4' (H500281-08)

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	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	93.3 %	6 47.2-157							
Surrogate: 1-Chlorooctadecane	111%	52.1-176							

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ARTESIA NM, 88210
Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name: Project Number: EBONY STATE #4 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S3 - 1' (H500281-09)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	1109	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	1269	52.1-170	5						

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Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S3 - 2' (H500281-10)

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	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	1049	6 47.2-15	7		15				
Surrogate: 1-Chlorooctadecane	1199	52.1-17	6						

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Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S3 - 3' (H500281-11)

BTEX 8021B	mg/	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	103 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	1179	6 52.1-176	5						

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Received:

01/30/2015

Reported:

02/05/2015 Project Name: **EBONY STATE #4** Project Number: NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

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

Celey D. Keene

Sample ID: S3 - 4' (H500281-12)

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	02/02/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/02/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/02/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/02/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	101 9	6 47.2-15	7			88-12-17-			
Surrogate: 1-Chlorooctadecane	1149	6 52.1-17	5						

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Received:

BTEX 8021B

01/30/2015

Reported: Project Name: 02/05/2015

Project Number:

EBONY STATE #4 NONE GIVEN

ma/ka

Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S4 - 1' (H500281-13)

BIEX 8051B	mg/	кд	Anaiyze	a sy: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/03/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	98.69	% 47.2-157	7		-1974, 10				
Surrogate: 1-Chlorooctadecane	1179	6 52.1-176	5						

Analyzed By: me

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Celeg Litterna



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ARTESIA NM, 88210
Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S4 - 2' (H500281-14)

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	02/03/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/03/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	107 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane									

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Celey L. Keine -



COG OPERATING
GARRETT MERKET
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S4 - 3' (H500281-15)

Result	Reporting Limit							
		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	02/03/2015	ND	1.87	93.3	2.00	6.89	
<0.050	0.050	02/03/2015	ND	1.78	89.0	2.00	7.61	
<0.050	0.050	02/03/2015	ND	1.67	83.6	2.00	9.24	
<0.150	0.150	02/03/2015	ND	5.01	83.5	6,00	9.64	
<0.300	0.300	02/03/2015	ND					
98.8 9	6 61-154							
mg/i	kg .	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
7520	16.0	02/02/2015	ND	416	104	400	8.00	
mg/i	(g	Analyze	d By: MS					_
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/02/2015	ND	190	95.0	200	6.03	
<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
108 %	47.2-15	7			-			
	<0,050 <0.150 <0.300 98.8 9 mg/li Result 7520 mg/li Result	<0.050 0.050 <0.150 0.150 <0.300 0.300 98.8 % 61-154 mg/kg Result Reporting Limit 7520 16.0 mg/kg Result Reporting Limit	<0,050	<0.050	<0.050	<0.050	<0.050	<0.050

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ARTESIA NM, 88210
Fax To: NONE

Received:

01/30/2015

Reported: Project Name: 02/05/2015

Project Number:

EBONY STATE #4 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

g Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes) Celey D. Keene

Sample ID: S4 - 4' (H500281-16)

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	02/03/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/03/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	107 %	6 47.2-15:	7		1.0.			3,5-3	
Surrogate: 1-Chlorooctadecane	123 %	6 52.1-170	5						

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Received:

01/30/2015

01/29/2015

Reported:

02/05/2015

Sampling Date: Sampling Type:

Soil

Project Name:

EBONY STATE #4

Sampling Condition: Sample Received By: ** (See Notes) Celey D. Keene

Project Number: Project Location:

NONE GIVEN

Sample ID: S5 - 1' (H500281-17)

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	02/03/2015	ND	1.87	93.3	2.00	6.89	
Toluene*	<0.050	0.050	02/03/2015	ND	1.78	89.0	2.00	7.61	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.67	83.6	2.00	9.24	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.01	83.5	6.00	9.64	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8 9	6 61-154					, , ,		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	02/02/2015	ND	416	104	400	8.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS				TTE	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	103 %	47.2-157	,						
Surrogate: 1-Chlorooctadecane	119%	52.1-176	ī						

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01/30/2015

Reported: Project Name: 02/05/2015

Project Number:

EBONY STATE #4 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S5 - 2' (H500281-18)

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	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 61-154	!	-					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	102 9	6 47.2-15	7		****				
Surrogate: 1-Chlorooctadecane	1189	6 52.1-17	6						

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Reported: Project Name: 02/05/2015

Project Number:

EBONY STATE #4 NONE GIVEN

Project Location:

NOT GIVEN

120%

52.1-176

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By: Celey D. Keene

Sample ID: S5 - 3' (H500281-19)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 61-154	,						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	103 9	6 47.2-15	7						

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Surrogate: 1-Chlorooctadecane

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Project Name:

EBONY STATE #4

Project Number: Project Location:

NONE GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S5 - 4' (H500281-20)

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	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1019	6 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	110 %	47.2-157	7						
Surrogate: 1-Chlorooctadecane	1199	52.1-176	5						

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Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S6 - 1' (H500281-21)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane									177 77
	103 9	6 47.2-15	7						

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02/05/2015

Project Name:

EBONY STATE #4

Project Number: Project Location: NONE GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S6 - 2' (H500281-22)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 61-154							_
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	109%	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	122 %	52.1-176	5						

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BTEX 8021B

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4

ma/ka

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S6 - 3' (H500281-23)

BIEX 8021B	тд/кд		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2,00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 61-154			-				
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	400	8.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	103 %	6 47.2-157							
Surrogate: 1-Chlorooctadecane	118 %	52.1-176	í						

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Project Name:

EBONY STATE #4
NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S6 - 4' (H500281-24)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.7	% 61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						201
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	1045	6 47.2-15	7		(4.0				
Surrogate: 1-Chlorooctadecane	1199	6 52.1-17	6						

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Celeg Likens



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S7 - 1' (H500281-25)

3TEX 8021B	mg/kg		Analyzed By: ms				_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Reco	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.89	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	400	8.00	
TPH 8015M	mg/	kg	Analyzed By: MS			<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	110 %	6 47.2-15	7		2011				7
Surrogate: 1-Chlorooctadecane	126 %	6 52.1-170	5						

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Celey L. Keine



COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name: Project Number: EBONY STATE #4
NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

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

Celey D. Keene

Sample ID: S7 - 2' (H500281-26)

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	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	400	8.00	
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	02/02/2015	ND	190	95.0	200	6.03	
DRO >C10-C28	<10.0	10.0	02/02/2015	ND	182	91.1	200	16.2	
Surrogate: 1-Chlorooctane	1019	6 47.2-157			3				
Surrogate: 1-Chlorooctadecane	1199	52.1-176							

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COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S7 - 3' (H500281-27)

BTEX 8021B	mg/kg		Anaiyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101%	61-154							
Chloride, SM4500CI-B	mg/l	vg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	400	8.00	
TPH 8015M	mg/l	(g	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	02/03/2015	ND	182	91.1	200	1.17	
DRO >C10-C28	<10.0	10.0	02/03/2015	ND	203	101	200	7.91	
Surrogate: 1-Chlorooctane	101%	47.2-15	7						
Surrogate: 1-Chlorooctadecane	126 %	52.1-176	5						

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Celego Keno -



COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S7 - 4' (H500281-28)

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	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3 9	61-154		****					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/02/2015	ND	416	104	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	02/03/2015	ND	182	91.1	200	1.17	
DRO >C10-C28	<10.0	10.0	02/03/2015	ND	203	101	200	7.91	
Surrogate: 1-Chlorooctane	90.89	6 47.2-157	7	V					
Surrogate: 1-Chlorooctadecane	120 %	52.1-176	5						

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COG OPERATING GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S8 - 1' (H500281-29)

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	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.69	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	T rue Value QC	RPD	Qualifier
Chloride	10100	16.0	02/02/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/03/2015	ND	182	91.1	200	1.17	
DRO >C10-C28	<10.0	10.0	02/03/2015	ND	203	101	200	7.91	
Surrogate: 1-Chlorooctane	89.59	6 47.2-157	7			7,1		3 2	
Surrogate: 1-Chlorooctadecane	101 %	52.1-176	5						

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Celey D. Kuno



COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S8 - 2' (H500281-30)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	02/02/2015	ND	416	104	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	02/03/2015	ND	182	91.1	200	1.17	
DRO >C10-C28	<10.0	10.0	02/03/2015	ND	203	101	200	7.91	
Surrogate: 1-Chlorooctane	98.7 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	127 %	52.1-176	5						

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Celeg Litreens



COG OPERATING
GARRETT MERKET
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name: Project Number: EBONY STATE #4 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S8 - 3' (H500281-31)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recover	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	02/02/2015	ND	416	104	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	02/03/2015	ND	182	91.1	200	1.17	
DRO >C10-C28	<10.0	10.0	02/03/2015	ND	203	101	200	7.91	
Surrogate: 1-Chlorooctane	90.9 9	6 47.2-157	,						
Surrogate: 1-Chlorooctadecane	113 %	52.1-176	í						

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COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

01/30/2015

Reported:

02/05/2015

Project Name:

EBONY STATE #4

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S8 - 4' (H500281-32)

BTEX 8021B	mg/	kg	Anaiyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/03/2015	ND	1.85	92.7	2.00	1.90	
Toluene*	<0.050	0.050	02/03/2015	ND	1.83	91.7	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/03/2015	ND	1.75	87.3	2.00	0.953	
Total Xylenes*	<0.150	0.150	02/03/2015	ND	5.18	86.3	6.00	0.929	
Total BTEX	<0.300	0.300	02/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.1 9	6 61-154							
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	02/02/2015	ND	416	104	400	0.00	
TPH 8015M	mg/l	c g	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	02/03/2015	ND	182	91.1	200	1.17	
DRO >C10-C28	<10.0	10.0	02/03/2015	ND	203	101	200	7.91	
Surrogate: 1-Chlorooctane	105 %	47.2-157	,						_
Surrogate: 1-Chlorooctadecane	129%	52.1-176	í						

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Celeg Liteens



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG Operating LLC					
Project Manager: Garrett Merket	P.O.	沙	103		ANALYSIS REQUEST
Address: 2208 West Main	Co	Dany.			
City: Artesia State: NM	Zip 88210 At	Attn: Robert McNeill			
Phone #: (575) 748-6940 Fax #:	Ad	PSS:			
Project #: Project Owner:					
Project Name: Ebony State #4	TO THE PERSON NAMED IN COLUMN TO THE	X Zin			
Project Location:	9	14.			
Sampler Name: Garrett Merket					
FOR LAB USE ONLY	MATRIX	PRESERV SAMPING			
Lab I.D. Sample I.D.	G)RAB OR (C)OM CONTAINERS ROUNDWATER VASTEWATER OIL ULL LUDGE THER:	CID/BASE: CE / COOL THER :	TEX	PH	
D/S1-1'	× 5	C		+	
	G ×	1/29/15	×	-	
المارين المارين	s ×	1/29/15	×		
	G X	1/29/15	×		
OS S2-1	ം ×	1/29/15	×		
O 6 S2-2"	ด ×	1/20/15	< >		
07 82-3		1/29/15	< >		
S2-4°		100/15	< >		
Of 83-1"		1/20/15	< >	< ×	
(O S3-2) G X	ด ×	1/29/15	,	< >	

Relinquished By:

Date:

CA

Fax Result: REMARKS:

□ Yes □ No AddTPhone #:
□ Yes □ No AddTFax #:
□ Carrasco(d)concho com

Phone Result:

atrujillo@concho.com; gmerket@concho.com

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Yes Tyes
No No

CHECKED BY:
(Inimals)

Delivered By: (Circle One)

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

P9244

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

Company Name:	COG Operating LLC			0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000			ANAI VCIC	
Project Manager.	Garrett Merket		P.O. #:	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4			
Address: 2208	2208 West Main		Company: COG Operating LLC	rating LLC				
City: Artesia	State: NM	Zip 88210		CNe				
Phone #:	(575) 748-6940 Fax #:		Bes.					
Project #:	Project Owner	ä	City: Midland	ā. 1				
Project Name: E	Ebony State #4		TX Zin	2				
Project Location:			# (A3					
Sampler Name:	Garrett Merket		- 1					
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	NG				
		RS ER R						
Lab I.D. H500281-	Sample I.D.	(G)RAB OR (C) # CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME STEX		TPH	Chloride	
	S3-3'	× 5	I C		-	+		
	S3-4'		1/29/15		< >	< >	< >	
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5	\$4-2'	ം ×	1/29/15				× >	
5 8	\$4-3"	റ ×	1/29/15			_	×)	
\$	S4-4"	o ×	1/29/15					
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Ş	S5-2'	ត ×	1/29/15					
12 6	S5-3'	ഗ ×	1/29/15		+			
20 S	S5-4'	G ×	1/29/15		× >	× >		
matyses. All clasms including the	TLEASE NOTE: Liability and Damages. Cardina's Bability and client's exclusive remedy for any claim arising whether based in contract or tart, shall be firsted to the amount pead by the client for the	uny claim arking whether based in contra	ct or tart, shall be tirrited to the amount pas	ad by the client for the		ŀ	F	
service. In no event shall Cerdinal be liable for incidental or calificates or successors arraing out of or related to the perform	aservice. In no event shall Cardinal be liable for incidental or consequential distributions with a control of the specificable asservice. In no event shall Cardinal within 30 days after completion of the applicable assertion or successors arising out of or related to the performance of services hereunder by Cardinal, is supplies a of whether successors arising out of or related to the performance of services hereunder by Cardinal, regulates of whether successors arising out of or related to the performance of services hereunder by Cardinal, regulates of whether successors arising out of or related to the performance of services hereunder by Cardinal, regulates of whether successors arising out of or related to the performance of services hereunder by Cardinal, regulates of whether successors arising out of or related to the performance of services hereunder by Cardinal without final to the control of the control of the service of the control of the service of the control of the co	ocorance warved unless made in writing ar without firritation, business interruptions arotinal, requiress of whether such dain	red unless made in witting and received by Cardinal within 30 days after completion of the ag- kitation, business interruption is, less of use, or loss of profits incurred by client, its subscittainess and these of whether succeptamin is based upon any of the above stated reasons or otherwise.	or completion of the application, its subsidiaries, asserts or otherwise.	licable			
remitynation by.	1/30 2015			Phone Result		Yes		one #:
	1	I V NO	0110	REMARKS:	gcam	☐ Yes	GCarrasco@concho.com	***
D	- CO. 1	22/22	NY	STATE OF THE	2			

Relinquished By:

Time:

Received By

atrujillo@concho.com, gmerket@concho.com

Time:

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Yes Yes
Vio No

CHECKED BY:

Delivered By: (Circle One)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

P9 3 of 4

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

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Company Name: COG Operating LLC	C				*****				07876	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				ANALYSIS REQUEST
Project Manager: Garrett Merket	Appendix and the second				70	P.O.	*				T			
Address: 2208 West Main	-10-feltyll ig ellefel evenum Ap-1-Velkkalanna nyglogetywwell) - Ab-1-6-fel				0	Company:	pa	y:	COG Operating LLC	ating LLC				
City: Artesia	State: NM		Zip	88210	>	Attn:			Robert McNeill	Neil				
Phone #: (575) 748-6940	Fax #:	Anna Committee Contraction			>	Address	Sa	91	600 W Illinois	linois				
Project #:	Project Owner:				0	City:			Midland	-				
Project Name: Ebony State #4		- Commenter of the Comm			(A)	State:	H	Ķ	Zip: 79701	3				
Project Location:					סר	Phone #:	Te #		(432) 221-0388					
Sampler Name: Garrett Merket					71	Fax #	#	- 1						
FOR LAB USE ONLY				MATRIX	ŀ	-	照	PRESERV	V. SAMPLING	NG				
HS∞281-	.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL	OTHER:	DATE	TME	ВТЕХ	ТРН	Chloride	
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35 S8-2'		ଜ ଜ		××				-	1/29/15		< ×	×	< ×	
Damages. those for redinal be fix	Cardinath Sability and client's exclusive remody for any dawn arising whether based in contract or fact, shall be limited to the emount paid by the client for the rediplence and any other cause whatsoever shall be deserted walved unless made in wetlang did received by Cardinal within 30 days after completion of the age by the controllerated consequential damages, including walvood fertilation, business interruptions, less of use, or less of profits incurred by client, its subsidiaries tested to the performance of services betweender by Cardinal.	ny claum berned v		K 4 0	di or I	of med	T BY CO	indinal of	ntract or text, shall be limbed to the amount paid by the client for the yudid received by Cardinal within 30 days after completion of the applicab logs, less of use, or less of profits incurred by client, its subsidiaries,	d by the client for the completion of the autient, its subsidenies	* opticable		>	
Relinquished By:	Date: Page 1	Re Re	No.	Received By: Received By:	50	ecry	0		or two sector builty to	Phone Result: Fax Result: Fax Result: REMARKS: 90 atrujilo@conch	SUCHO CO	☐ Yes ☐ Yes arrasco	☐ Yes ☐ No Add'i ☐ Yes ☐ No Add'i ☐ Garrasco@concho.com Gcho.com; gmerket@conc	☐ Yes ☐ No Add'i Phone #: ☐ Yes ☐ No Add'i Fax #: ☐ arrasco@concho.com ☐ com; gmerket@concho.com
	Time:			0										
Delivered By: (Circle One) Sampler UPS - Bus - Other:	J. p. p. /	2		Sample Condition Cool Intact Yes Yes	tion)	5 0	3 10	CHECKED BY:					



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ŀ				l			
Company Name: COG Operating LLC						ANALYSIS REQUEST	
Project Manager: Garrett Merket		P.O. #:					
Address: 2208 West Main	elektrikan eri til det ere elektrika eri elektrika eri eri erre elektrika eri elektrika eri til elektrika eri e	Company: cog o	COG Operating LLC				
City: Artesia State: NM	Zip 88210	Attn: Robert	Robert McNeiii				
Phone #: (575) 748-6940 Fax #:	maanajanateivaanin tahtajantii variayeetti propingeren ja pendengan partimente propingeren ja pendengan ja pe	Address: 600	600 W Illinois	-			
Project #: Project Owner:		City: Mid	Midland		<u>-</u> -		
Project Name: Ebony State #4		State: TX Zip: 79701	9701				
Project Location:		Phone #: (432) 221-0388	1388				
Sampler Name: Garrett Merket		Fax #:					
	MATRIX	ESERV.	SAMPLING				
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE. ICE / COOL OTHER.	TIME BTEX	ТРН	Chloride		
<u>3</u> s ₈₋₃	_	1/29/15		×	×		and the second
32.88.4	о ×	1/29/15		×	×		
PLEASE NOTE: Liability and Dennages, Cardinal's Bability and client's exclusive remedy for any claim urising whether based in contract or tort, shall be finited to the amount paid by the client to the makes. All claims including these for negligence and any other cause whatsoever shall be determed waived needs and on a writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be faithed for incidental or consequential damages, including without limiting in, business interruptions, loss of use, or loss of profits neutrand by deart, its subsidiaries,	any claim arising whether based in control deemed waived unless made in writing ar g without limitation, business interruptions	ct or tort, shall be limited to the amond received by Cardinal within 30 day, less of profits incurr	unt paid by the client for the ye after completion of the app and by client, its subsidiaries.	alicable	-		-
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		COMO	Fax Result: REMARKS:	gcan	□ Yes	☐ Yes ☐ No Add'l Fax #: GCarrasco@concho.com	
Bélinquished By: Date:	Received By:	4	atrujillo@concho	ncho.c	om, gr	o.com; gmerket@concho.com	
Delivered By: (Circle One)	Sample Condition	tion CHECKED BY:					



February 18, 2015

GARRETT MERKET

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: EBONY STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 02/12/15 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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 D. Keene

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 GARRETT MERKET P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/12/2015

Reported:

Chloride, SM4500Cl-B

02/18/2015

Project Name:

EBONY STATE #4

Project Number: Project Location:

NONE GIVEN

mg/kg

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S1 - 6' (H500422-01)

ilig	/ kg	Allatyze	u by. Ar					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1920	16.0	02/16/2015	ND	400	100	400	0.00	
2-02)								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1200	16.0	02/16/2015	ND	400	100	400	0.00	
	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	D00	
					10 INCCOACIA	True value oc	KPD	Oualifier
736	16.0	02/16/2015	ND	400	100	400	0.00	Qualifier
736	16.0	02/16/2015	ND	400	,			Qualifier
		02/16/2015 Analyze		400	,			Qualifier
2-04)				400 BS	,			Qualifier Qualifier
	Result 1920 2-02) mg. Result 1200 2-03) mg.	1920 16.0 2-02) mg/kg Result Reporting Limit 1200 16.0 2-03) mg/kg	Result Reporting Limit Analyzed 1920 16.0 02/16/2015 2-02) mg/kg Analyze Result Reporting Limit Analyzed 1200 16.0 02/16/2015 2-03) mg/kg Analyze	Result Reporting Limit Analyzed Method Blank 1920 16.0 02/16/2015 ND 2-02) Mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank 1200 16.0 02/16/2015 ND 2-03) Mg/kg Analyzed By: AP	Result Reporting Limit Analyzed Method Blank BS 1920 16.0 02/16/2015 ND 400 2-02) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS 1200 16.0 02/16/2015 ND 400 2-03) Mg/kg Analyzed By: AP	Result Reporting Limit Analyzed Method Blank BS % Recovery 1920 16.0 02/16/2015 ND 400 100 2-02) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery 1200 16.0 02/16/2015 ND 400 100 2-03) mg/kg Analyzed By: AP	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 1920 16.0 02/16/2015 ND 400 100 400 2-02) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 1200 16.0 02/16/2015 ND 400 100 400 2-03) mg/kg Analyzed By: AP	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 1920 16.0 02/16/2015 ND 400 100 400 0.00 2-02) mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 1200 16.0 02/16/2015 ND 400 100 400 0.00

Analyzed By: AP

Cardinal Laboratories

*=Accredited Analyte

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





COG OPERATING **GARRETT MERKET** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

02/12/2015

Reported:

02/18/2015

Project Name:

EBONY STATE #4

Project Number: Project Location:

Analyte

NONE GIVEN NOT GIVEN

Sampling Date:

01/29/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S8 - 6' (H500422-05)

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AP

Result 528

Reporting Limit

16.0

Analyzed

02/16/2015

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

0.00

Qualifier

Sample ID: S8 - 8' (H500422-06)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Analyte Result Reporting Limit BS Analyzed Method Blank % Recovery True Value QC RPD Qualifier Chloride 256 16.0 02/16/2015 ND 400 100 400 3.92

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Celley Litreens -



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg L. Keins -



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

Company Mama	(3/3) 333-2320 FAX (3/3) 393-24/6	4/6	ı																										
Company Name:	COG Operating LLC		project de une					7 0 0 0 0 E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		777	02.18 87.53	1011000 110000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000				\mathbf{a}	ANALYSIS		<u> S</u>	2		REQUEST	\$	š				
Project Manager:	Garrett Merket							P.O.	#					T		4	4			_[8		-		79	-			7	
Address: 2208	2208 West Main							Col	Company:	ny:		COG Operating LLC	חם ררכ																
City: Artesia	State: NM	N	Zip	_	88210	Ö		Attn:	::			Robert McNeill		-															*
Phone #:	(575) 748-6940 Fax #:							Ado	Address	Si		600 W Illinois	SION																-
Project #:	Project Owner:	75						City:	- 10			Midland																	
Project Name: E	Ebony State #4							Sta	State: TX	⋜	2	Zip: 79701																	
Project Location:								말	Phone #-		dan.	(432) 221 0388																	_
Sampler Name:	Garrett Merket							n	*																				_
FOR LARLISSE ONLY			-				L	Fax#:	3																				-
TOO DO CORE ONLY		o,		-	MA	MATRIX			PRESERV.	SER	_ <	SAMPLING	ഗ																-
Lab I.D.	Sample I.D.	AB OR (C)OM	UNDWATER	TEWATER			DGE	-	/BASE	COOL	CK .			(ide													
H200/22-		-			SOII	OIL	-	ОТН		OTH	Oin	DATE	TIME	BTE:	ГРН	Chlor													-
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्र दि	S1-8 ¹	ଉ			×							1/29/15				× :	-			_									
S	S5-6 ³	ଦ			×			_			_	1/29/15				< :						-							-
S AC	\$5-8'	റ			×				4			1/29/15	The second secon			< >	-			+									
	S8-6;	ଦ			×				-			1/29/15				× >			-									1100	-
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PLEASE NOTE: Liability and D	PLEASE NOTE: Liability and Damages, Cerdinal's liability and elient's exclusive remedy for any chain visiting whether based in centrari or ton shall be limited in the second of the sec	ay chaim ar	# T	Tather																									
attrapes. At claims including those for negligence and any of service. In no event shall Cardinal be liable for incidental or co-attliates or successors prising out of or related to the performs Relinguished By:	attributes. All cleans including those for negligence and any other cause whateverer shall be deemed waved unless made in writing and received by Cardinal width 30 days after completen of the applicable service. In no event shall Cardinal be label for incidental or consequential damages, accluding without intribution, business interruptions loss of use, or loss of profits incurred by client, its authoristics, attributes or successors unlang out of or related to the performance of services hereunder by Cardinals, regardless of whether such Cardina is based upon any of the above stated respons or otherwise. Relinquished By:	beemed was without lim ardinal, req	100	of wh	ss inte	writing shaptio	and n	as of u	d by C	ardina cas of	profit	a 30 days after consistency of the stated reason	mpletton of the a t, its subsidiarie s or otherwise	applicable 18	a a			9				1							
	Will als	Received By:	Wed	, in the second		1			1			7 9	Phone Result: Fax Result:	Ē	□ Yes	□ □ 	2 2	Add'l Phone #: Add'l Fax #:	non #	7 0									
Paret B	Sign Sign			6		110011	2	1	0			20	REMARKS:	B	arrasco	gcarrasco@concho.com	8	B	5		- 1								

Belinquished By:

Time:

atrujillo@concho.com; gmerket@concho.com

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

Sample Condition
Cool Intact
Ares Yes
Ares No No

CHECKED BY:



April 17, 2015

GARRETT MERKET

COG Operating, LLC

500 W. ILLINOIS

Midland, TX 79701

RE: EBONY

Enclosed are the results of analyses for samples received by the laboratory on 04/16/15 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



COG Operating, LLC **GARRETT MERKET** 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:

04/16/2015

Reported:

04/17/2015

Project Name:

EBONY

Project Number: Project Location: NONE GIVEN

NOT GIVEN

1220

Result

112

Sampling Date:

04/16/2015

Soil

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S 9 - 1 ' (H501001-01)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

04/17/2015

Analyzed

04/17/2015

Method Blank ND

BS 432 % Recovery 108

True Value QC RPD

Qualifier

Sample ID: S 9 - 2' (H501001-02)

Chloride, SM4500Cl-B

Analyzed By: AP

ND

400

3.77

Analyte

Analyte

Analyte

mg/kg

Method Blank

BS 432 % Recovery

True Value QC

RPD

Qualifier

Sample ID: S 9 - 3 ' (H501001-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

108

400

3.77

Chloride

Chloride

Result 192

Result

864

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 04/17/2015

04/17/2015

Method Blank ND

ND

BS 432

432

% Recovery 108

True Value QC 400

400

RPD

3.77

3.77

Sample ID: S 9 - 4 ' (H501001-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank BS

% Recovery

108

True Value QC RPD

Qualifier

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



COG Operating, LLC **GARRETT MERKET** 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:

04/16/2015

Reported:

04/17/2015

Project Name:

EBONY

Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

04/16/2015

Sampling Type:

Soil

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

Jodi Henson

Sample ID: S 9 - 6 ' (H501001-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Result

1140

Reporting Limit

16.0

Analyzed 04/17/2015 Method Blank ND

BS 432

108

% Recovery

% Recovery

True Value QC 400

True Value QC

400

RPD Qualifier

Sample ID: S 9 - 8 ' (H501001-06)

Chloride, SM4500Cl-B

Analyte

Analyte

mg/kg

Analyzed By: AP

Chloride

Chloride

Chloride

Chloride

Chloride

Result 1330

Reporting Limit 16.0

Analyzed 04/17/2015 Method Blank ND

ND

ND

Method Blank

ND

BS 432

RS

432

108

RPD 3.77

3.77

Sample ID: S 10 - 1 ' (H501001-07)

Chloride, SM4500CI-B

mg/kg

Result

<16.0

Analyzed By: AP

Reporting Limit

Analyzed

Method Blank

% Recovery

108

True Value QC

RPD

3.77

3.77

RPD

3.77

Qualifier

Qualifier

Sample ID: S 10 - 2' (H501001-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result 32.0

Reporting Limit 16.0

Reporting Limit

16.0

16.0

Analyzed 04/17/2015

Analyzed

04/17/2015

04/17/2015

Method Blank

BS

432

% Recovery

108

% Recovery

108

True Value OC

400

RPD Qualifier

Sample ID: S 10 - 3 ' (H501001-09)

Chloride, SM4500CI-B

mg/kg

Result

64,0

Analyzed By: AP

BS

432

400

True Value QC

400

Qualifier

Cardinal Laboratories

Analyte

*=Accredited Analyte

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Celey X. Keena



COG Operating, LLC **GARRETT MERKET** 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:

04/16/2015

Reported:

04/17/2015

Project Name:

EBONY

Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

NOT GIVEN

Sampling Date:

04/16/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S 10 - 4 ' (H501001-10)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

Chloride

Chloride

mg/kg

Result

96.0

Result

32.0

<16.0

Result

592

224

Analyzed By: AP

Reporting Limit

16.0

Reporting Limit

16.0

16.0

Reporting Limit

16.0

16.0

Analyzed 04/17/2015

Analyzed

04/17/2015

Method Blank ND

BS 432

108

% Recovery

True Value QC 400

RPD Qualifier

3.77

Sample ID: S 10 - 6 ' (H501001-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

RS

400

% Recovery

100

True Value QC

400

400

3.92

RPD Qualifier

Sample ID: S 10 - 8 ' (H501001-12)

Chloride, SM4500CI-B

Analyzed By: AP

Analyte

Result Reporting Limit Analyzed

04/17/2015

Analyzed

04/17/2015

Analyzed

04/17/2015

Method Blank

ND

Method Blank

ND

BS

400

BS

400

BS

400

% Recovery

100

True Value QC

RPD Qualifier

3.92

Sample ID: S 11 - 1 ' (H501001-13)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AP

Method Blank

ND

% Recovery

100

% Recovery

100

True Value QC

RPD Qualifier

Sample ID: S 11 - 2 ' (H501001-14)

Chioride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit

Method Blank

ND

400

True Value QC

400

3.92

RPD

3.92

Qualifier

Cardinal Laboratories

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Celeg D. Keina



COG Operating, LLC **GARRETT MERKET** 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:

04/16/2015

Reported:

04/17/2015

Project Name:

EBONY

Project Number:

NONE GIVEN

Sampling Date:

04/16/2015

Sampling Type:

Soil

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

Project Location:

NOT GIVEN

Sample ID: S 11 - 3 ' (H501001-15)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Result 176

Reporting Limit

16.0

Reporting Limit

Analyzed 04/17/2015 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD Qualifier

3.92

Sample ID: S 11 - 4 ' (H501001-16)

Chloride, SM4500Cl-B

mg/kg

mg/kg

Analyzed By: AP

BS % Recovery

True Value QC

400

400

400

RPD Qualifier

Chloride

Chloride

Result 32.0

16.0

Analyzed 04/17/2015 Method Blank ND

400

400

100

3.92

Sample ID: S 11 - 6 ' (H501001-17)

Sample ID: S 11 - 8 ' (H501001-18)

Chloride, SM4500Cl-B

Analyzed By: AP

Analyte

Analyte

Analyte

Result 944

Reporting Limit

16.0

Analyzed 04/17/2015 Method Blank ND

BS

% Recovery True Value QC

RPD 3.92

Qualifier

Chloride

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Chloride	

Result 944

Reporting Limit 16.0

Analyzed 04/17/2015

Method Blank ND

400

BS

% Recovery

100

100

True Value QC RPD

3.92

Qualifier

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Celazy D. Kaina



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keine



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

				100						40				
Company Name:	COG Operating LLC				8	BILL TO					ANALYSIS I	REQUEST		
Project Manager:	Garrett Merket			4	P.O. #:				_	_				\dashv
Address: 2208	2208 West Main			0	Company:	COG Operating LLC	ing LLC							
City: Artesia		State: NM	N	Zip 88210 A	Attn:	Robert McNeill	e		***			************		
Phone #:	(575) 748-6940	Fax #:		A	Address:	600 W Illinois	Pots							
Project #:		Project Owner:		0	City:	Midland								
Project Name: Ebony	bony			S	State: TX	Zip: 79701								
Project Location:				0	Phone #: (432) 221-0388	32) 221-0388								<u></u>
Sampler Name:	Garrett Merket			711	Fax #:									
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING	<u>ত্</u>					_		
Lab I.D.	Sample I.D.		OR (C)OMP	DWATER WATER				100						
HSOM			Name and Address of the Owner, where	# CONT. GROUN WASTER SOIL OIL SLUDGE OTHER	ACID/BAICE / CC	DATE	TIME	BTEX	ТРН	Chioride				
S	S9-1'		G	×		4/16/15			_	×				
l l	S9-2'		G	×		4/16/15	one and			×				
`	S9-3'		၀	×		4/16/15				×				
	S9-4'		၀	×		4/16/15				×		31.0		
S	S9-6'		ଜ	×		4/16/15				×				
16	S9-8'		ဝ	×		4/16/15		_		×				
0 0	S10-1:		າ	× ×		4/16/15			37.	×				
00 00	S10-2		ລ ດ	××		4/16/15				< ×				
	S10-4"		G (× :		4/16/15				× >			Kilo	
PLEASE NOTE: Leability and D analyses All claims including it service in no event shall Card affiliates or successors arrang o	PLEASE MOTE: Labelly and Dimages Cardine's tabelity and clerin's enclusive remoty for any cleam arraing whether based in contract or fort, shall be lamited to the amount paid by the client for the analyses. All cleams including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal wiftin 30 days after completion of the applicable service in no event shall Curdinal be labely for noderital or consequential damages, including whose timistion, business entireplaces, loss of uses or loss of profits morning of profits morning by client, its subsciousness. Before the subsciousness of the subs	exclusive remedy for an se whatsoever shall be d rital damages, including lenvices hereunder by Ca	y clam an eemed wo without lim widnal, rep	naing whether based in contract or to aved unless made in writing and rece infation, business marruptions, loss or gar finally if whether such claim is bas	rt, shall be larated to swed by Cardinal wi of use, or loss of pro- sed upon any of the	nted to the amount pad by the client for the inal within 30 days after completion of the of profits incurred by client, its subsidiants of the above stated reasons or otherwise.	the client for the impletion of the approximation of the approximation of the subsidiaries.	decable		-				-
Reinquished By:		Date:	Rec	Received By:	B		Phone Result: Fax Result: REMARKS:	tt: D	Yes Yes	□ No ©CONCINC	☐ Yes ☐ No Add'I Phone #: ☐ Yes ☐ No Add'I Fax #: Carrasco@concno.com			
Relinquished By:	" Verto to	51-01-12	Rec	Received By:	B	10)	trujillo@cc	oncho	com;	gmerket	atrujillo@concho.com; gmerket@concho.com			
Delivered By: (Circle One)	(Circle One)	4.30		Sample Condition		OMDOKAD BY.								
	. (:: (:: (:: (:: (:: (:: (:: (:: (:: (:			THE REAL PROPERTY AND ADDRESS OF THE PARTY AND		THE R PERSON NAMED IN								

Sample Condition
Cool Intact
Yes Yes
You I No

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
FORM-006 R 2 0



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

Company Name: COG Operating LLC	BILL TO	
Project Manager: Garrett Merket	P.O. #	ANALI SIS REGOES!
Address: 2208 West Main	Company: COG O	COG Operating LLC
City: Artesia State: NM	Zip 88210 Attn:	Robert McNeill
Phone #: (575) 748-6940 Fax #:	Address:	600 W Illinois
Project #: Projec	Project Owner: City: Midl	Midland
Project Name: Ebony	TX Zip	79701
Project Location:	(432	0368
Sampler Name: Garrett Merket	Fax #:	
٦	ESERV	SAMPLING
Lab I.D. Sample I.D.		BTEX TPH Chloride
// \$10-6	G X 4/16/15	15 ×
\$10-8	G X 4/16/15	
/3 \$11-1'	G X 4/16/15	
14 511-2"	G X 4/16/15	
/S S11-3	G X 4/16/15	15 ×
S11-4'	G X 4/16/15	
/ S11-6'	G X 4/16/15	
/ 8 S11-8'	G X 4/16/15	
PLEASE NOTE: Liability and Darmages: Cardinal's hability and client's exclusive in mailyres. All claims including floors for negligence and any other cause whitston service in no event shall Cardinal be liable for incidental or consequential darmag	PLEASE NOTE: Labbity and Darnages: Cardmal's labbity and client's exclusive remedy for any claim arrang whether based in centract or bot shall be britised to the amount paid by the claim! for the antisyness. All claims including those for negligence and any other cause whatsoever shall be deemed watered unless made in writing and received by Cardmal within 30 days after completion of the applicable service in no event shall Cardmal be liable for incidental or consequental damages including without limitation, business interruptions, loss of use or loss of profits incurred by claimt, as subsidiaries.	paid by the client for the after client for the after control of the applicable by client and the applicable
Relinquished By: Date: Recd Time:	Received By:	
	Paris 16-15 Received By:	atrujillo@concho.com; gmerket@concho.com

Sample Condition
Cool Intact
Yes 19 Yes
17 No 1 No

CHECKED BY:

Relinquished By:

Sampler - UPS - Bus - Other: FORM-006 R 2.0

Delivered By: (Circle One)