

Charles Beauvais ConocoPhillips 2208 W Main St Artesia, New Mexico 88210 575-988-2043

December 12, 2022

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

#### Subject: Birdseye 32 State #001H Release Unit Letter O, Section 32, Township 19 South, Range 31 East Eddy County, New Mexico Incident ID nAB1711829670 2RP-4189

Sir or Madam:

ConocoPhillips Company("COPC") entered into an Agreed Compliance Order ("ACO") with the New Mexico Oil Conservation Division ("NMOCD") on December 15, 2021, related to unresolved releases from COPC's predecessor-in-interest ("COG"). The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than March 31, 2022. As of March 11, 2022, COPC has submitted characterization and remediation plans for all of the properties identified and owned.

A Closure Request (dated October 2018) for the subject line 2RP-4189 (ID nAB1711829670) release was drafted by COG and previously submitted to the NMOCD on behalf of COPC. The document was uploaded and submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, NMOCD as a portion of the ACO submittals.

NMOCD has recently begun issuing determinations on ACO reports submitted via CentreStack, (referred to as Internal Manual Incident File Supporting Documentation (ENV) (IM-BNF)). This subject line incident was rejected by Brittany Hall, Projects Environmental Specialist – A. In the rejection, Ms. Hall notes that to close this incident, a new C-141 Closure form must be signed and submitted to the fee application portal along with the complete report that contains the missing appendices.

Thus, enclosed is a copy of the amended Closure Letter for the subject line incident. The attached amended Closure Letter with an executed C-141 will be submitted via the NMOCD Fee Application portal, as requested.

If you have any questions, please contact me at 575-988-2043.

Sincerely,

Charles R. Beauvais II

Charles Beauvais Senior Environmental Engineer | Environmental Operations | ConocoPhillips

cc: Site Files

Attachments: C-141 Incident ID nAB1711829670, Rejection, Closure Letter

Page 6

Incident ID	
District RP	
Facility ID	
Application ID	

### Closure

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

<b>Closure Report Attachment Checklist:</b> Each of the following in	tems must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC						
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)						
Description of remediation activities							
I hereby certify that the information given above is true and comple and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O	te to the best of my knowledge and understand that pursuant to OCD rules n release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.						
Printed Name:	_ Title:						
Signature: _ Charles R. Beauvais II	Date:						
email:	Telephone:						
OCD Only							
Received by: Jocelyn Harimon	Date: 12/16/2022						
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.							
Closure Approved by: Ashley Maxwell	Date:						
Printed Name:							

#### Chavira, Lisbeth

From:	OCDOnline@state.nm.us
Sent:	Thursday, November 17, 2022 8:29 AM
То:	Beauvais, Charles R
Subject:	[EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 159550

**CAUTION**: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Charles Beauvais for COG OPERATING LLC),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nAB1711829670, for the following reasons:

- Incomplete report. There is no final C-141 submitted with the report. Please include a completed final C-141 with all reports. Please use the most current version of the C-141. In addition to the C-141 missing, all other appendices of the report are missing.
- Please submit a complete closure report through the OCD Permitting website by 1/20/2023.

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 159550. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional IM-BNF.

Thank you, Brittany Hall Projects Environmental Specialist - A 505-517-5333 Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

Received by OCD: 12/16/2022 10:45:00 AM



[Sheldon L. Hitchcock] [HSE Coordinator]

October 24, 2018

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

Shelly Tucker Bureau of Land Management, CFO 620 E. Green Street Carlsbad, NM 88220

Re: Closure Letter Birdseye 32 State #001H API #: 30-015-38295 RP#: 2RP-4189 Unit Letter O Section 32, Township 19S, Range 31E Eddy County, NM

Ms. Pruett/Ms. Tucker,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure report for the Birdseye 32 State #001H. This release occurred on April 24, 2017. Following the release an assessment of impacted soils was conducted. A remediation work plan was submitted to and subsequently approved by the New Mexico Oil Conservation Division (NMOCD) and Bureau of Land Management (BLM). A copy of the approved work plan is attached in Appendix V.

#### BACKGROUND

The Birdseye 32 State #001H release is located in Unit Letter F, Section 33, Township 19 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for this release are 32.618982 North and -103.875229 West.

On April 24, 2017, a poly flowline approximately one (1) mile northeast of the Birdseye 32 State #001H location failed resulting in the release of approximately two-hundred and ninety-nine (299) barrels (bbls) of produced water and one (1) bbl of oil into the right-of-way.

Remediation activities were conducted in accordance with the approved work plan and NMOCD/BLM stipulations. The analytical results from the NMOCD and BLM stipulated confirmation soil sampling activities are summarized in the table below. A site diagram of the excavated area is presented in Appendix I.

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701 | P 432.683.7443 | F 432.683.7441

#### **GROUNDWATER AND SITE RANKING**

According to the New Mexico Office of the State Engineer (NMOSE) groundwater in the project vicinity is approximately one-hundred and thirty (130) feet below ground surface (BGS) (Appendix II). No water well or surface water was observed within one-thousand (1,000) feet of the release site. Therefore the site ranking for this release is zero (0) based on the following:

Depth to groundwater	>100-feet
Distance to surface water body	>1000-feet
Wellhead Protection Area	>1000-feet

#### LABORATORY RESULTS

Sample ID	Sample Depth (ft)	Chloride (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)
T1-Surface	0	3120	494	< 0.00364	< 0.00364
T1-1'	1	1810	715	< 0.00345	0.233
T1-2'	2	11400	<15.0	< 0.00348	< 0.00348
T1-3'	3	16000			
T1-4'	4	11200			
T1-6'	6	5040			
T1-8'	8	6720			
T1-10'	10	2680			
T1-12'	12	3170			
T1-14'	14	333			
T1-16'	16	94.0			
T1-18'	18	162			
T2-Surface	0	2510	722	< 0.00352	< 0.00352
T2-1'	1	304	<15.0	< 0.00389	< 0.00389
T2-2'	2	2660	<15.0	< 0.00351	< 0.00351
T2-3'	3	73.2			
T2-4'	4	112			
T2-9'	9	4490			

October 24, 2018

#### **REMEDIAL ACTIONS**

- The area in the vicinity of sample location T-1 was excavated to a depth of four (4) feet BGS and a 20-mil liner was installed at the bottom of the excavation.
- The impacted area in the vicinity of sample location T-2 was excavated to a depth of two (2) feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with clean "like" material, contoured to match the surrounding terrain and seeded with BLM LPC seed mixture.

October 24, 2018

#### **CLOSURE REQUEST**

COG Production, LLC respectfully requests that the New Mexico Oil Conservation Division and the Bureau of Land Management grant closure approval for the Birdseye 32 State #001H incident that occurred on April 24, 2017.

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

Sincerely,

Sheldon Jutan

Sheldon L. Hitchcock HSE Coordinator slhitchcock@concho.com

Enclosed:

Appendix I: Site Diagram Appendix II: Groundwater Data Appendix III: Initial C-141 (Copy) Appendix IV: Final C-141 Appendix V: Work Plan (Copy) Appendix VI: Analytical Reports and Chain-of-Custody Forms

# APPENDIX I

## Birdseye 32 State #001H



by OCD: 12/16/2022 10:45:00 AM

# APPENDIX II

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	I,	(qua	rtei rtei	rs a rs a	are 1: are si	=NW 2 malles	2=NE 3 st to lar	3=SW 4=SE rgest) (N	:) AD83 UTM in m	eters)	(1	In feet)	
BOD Number	POD Sub-	<b>`</b> ount	Q	Q 16	Q	500	Two	Png	v	v	Distance	Depth	Depth	Water
CP 00723 POD1	Code basin C CP	ED	у 04 2	1	<b>4</b> 1	33	1 <b>ws</b> 19S	31E	<b>6</b> 05111	3610071*	585	139	Waler	Column
CP 00725 POD1	СР	ED	1	3	3	28	19S	31E	604906	3610473* 🤤	1035	231		
CP 00520	CP	ED	4	4	1	10	20S	31E	607163	3606278* 🌍	3728	280	130	150
CP 00641 POD1	CP	ED		4	1	36	19S	31E	610247	3609634* 🌍	4827	300	130	170
										Avera	age Depth to	Water:	130	feet
											Minimum	Depth:	130	feet
											Maximum	Depth:	130	feet
Record Count: 4														
<b>Basin/County Search</b>	<u></u>													
County: Eddy														
UTMNAD83 Radius S	earch (in mete	rs):												

Easting (X): 605420

Northing (Y): 3609574

**Radius: 5000** 

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\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/24/18 1:53 PM

# APPENDIX III

APR 2 5 2017

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

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

Form C-141 Revised August 8, 2011

Subinit Loopy to appropriate District Office in accordance with 19.15.29 NMAC.

#### **Release Notification and Corrective Action**

NAB1711829670		OPERATOR	ł	Initial Report	Final Report
Name of Company: COG Operating LLC OG	GRID # 229137	Contact:		Robert McNeill	
Address: 600 West Illinois Avenue, Midland	TX 79701	Telephone No.		432-683-7443	
Facility Name: Birdseye 32 State #001H		Facility Type:	Flowline		
Surface Owner: Federal	Mineral Owner:	State		API No. 30-0	15-38295

LOCATION OF RELEASE								
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	32	195	31E	330	South	2260	East	Eddy

Latitude 32.6105042 Longitude -103.8901062

NATURE OF RELEASE

Type of Release:		Volume of Release:	Volume Re	covered:				
Oi	& Produced Water	1 bbls Oil & 299 bbls PW		<u>0 bbls</u>				
Source of Release:		Date and Hour of Occurrence:	Date and H	our of Discovery:				
	Flowline	April 24, 2017 2:00 pm April 24, 2017 2:00 pm						
Was Immediate Notice Give	m? <b>П</b>	If YES, To Whom?						
	🛛 Yes 📋 No 📋 Not Required	Ms. Weaver – NMOCD / Ms	s, Tucker – B	LM / Ms. Groves - SLO				
By WI	hom? Rebecca Haskell	Date and Hour: April 25, 2017 Time	e of this Ema	il				
Was a Watercourse Reached	1?	If YES, Volume Impacting the Wate	ercourse.					
	🗌 Yes 🖾 No							
If a Watercourse was Impac	ted Describe Fully *							
in a management in pue								
Describe Cause of Problem	and Remedial Action Taken.*		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
The release was caused by a	hole in a flowline. The flowline was repaired							
Describe Area Affected and	Cleanup Action Taken.*							
	the Constantial base the still save somelad	an deline and manifely impact from	41	- d				
remediation work plan to the	a NMOCD for approval prior to any significant	to define ate any possible impact from	the release a	nd we will present a				
L bereby certify that the info	mation given above is true and complete to the	he best of my knowledge and understa	nd that nursu	ant to NMOCD rules and				
regulations all operators are	required to report and/or file certain release n	atifications and perform corrective act	tions for relea	ses which may endanger				
public health or the environ	ment. The acceptance of a C-141 report by th	e NMOCD marked as "Final Report" (	does not relie	ve the operator of liability				
should their operations have	failed to adequately investigate and remediat	e contamination that pose a threat to g	round water.	surface water, human health				
or the environment. In addi	tion, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respons	ibility for con	npliance with any other				
federal, state, or local laws a	ind/or regulations.			-				
A.L.	Markell	OIL CONSERV	ATION I	DIVISION				
Signature: Autom	HTISALL							
		Signed By	11/4 DI	CARCULES-				
Printed Name:	Kebecca Haskell	Approved by Environmental Specialis	st:					
		Ala(1)-		51/A-				
<u>litle:</u>	Senior HSE Coordinator	Approval Date: 4 26 1 1	Expiration D	ate: N/A				
E-mail Address	rbaskall@conche.com	Conditions of Annrounly						
E-main Address.	maskem@concno.com	Conditions of Approval:	``	Attached 🔀				
Date: April 25, 2017	Phone: 432-683-7443	Secattann	ipd	ť				
Attach Additional Sheets	If Necessary	ere re, mer	1-41					
a complete and the state of the	er evensouly			2RP-4189				

# APPENDIX IV

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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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.

Santa Fe, NW 87303								
Release Notification and Corrective Action								
		OPERATOR	Initial Report	Final Report				
Name of Company: COG Operating, L	LC (OGRID# 229137)	Contact: Robert McNeill						
Address: 600 West Illinois Avenue, Mi	dland TX 79701	Telephone No.: 432-683-7443						
Facility Name: Birdseye 32 State #001	Н	Facility Type: Flowline						
Surface Owner: BLM	Mineral Owner	: State	API No.: 30-015-3	38295				

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	32	19S	31E	330	S	2260	Е	Eddy

Latitude: 32.6105042 Longitude: -103.8901062 NAD83

#### NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release:	Volume Re	ecovered:				
Source of Release: Flowline	Date and Hour of Occurrence: April 24, 2017 2:00pm	Date and H April 24, 2	lour of Discovery: 017 2:00pm				
Was Immediate Notice Given?	If YES, To Whom? Ms. Weaver-NMOCD Ms. Tucker-BLM Ms. Groves-NMSLO						
By Whom?	Date and Hour:						
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.					
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.*							
A flowline failed resulting in the release. The flowline was repaired.							
Describe Area Affected and Cleanup Action Taken.*							
The release was within the pasture. The release was vertically and horizontally delineated. A remediation work plan was drafted and subsequently approved by NMOCD and BLM. The remediation was carried out in accordance with the approved work plan.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other							
	OIL CONSERV	VATION I	DIVISION				
Signature: Sheldon Jutan	Approved by Environmental Speciali	oved by Environmental Specialist:					
Printed Name: Sheldon L. Hitchcock							
Title: HSE Coordinator	Approval Date:	Expiration D	ate:				
E-mail Address: slhitchcock@concho.com	Conditions of Approval:		Attached				
Date: 10/24/2018 Phone: 575-746-2010							

\* Attach Additional Sheets If Necessary

# APPENDIX V



#### **REMEDIATION WORK PLAN**

Property:

#### Concho Operating, LLC. Birdseye 32 State #001H Eddy County, New Mexico Unit Letter "O", Section 32, Township 19 South, Range 31 East Latitude 32.61882, Longitude -103.87544 2RP-4189

November 2017

Prepared for:

#### Concho Operating, LLC. 600 West Illinois Avenue Midland, TX 79701 Attn: Mrs. Rebecca Haskell

Prepared by:

Ryan Reich Environmental Project Manager

K Filli

Thomas Franklin Environmental Manager

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net

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#### APPENDICES

#### Appendix A

Figure 1 – Site Vicinity Map

Figure 2 – Topography Map

Figure 3 – Release Footprint Map

Figure 4 – Proposed Excavated Depths Map

#### Appendix B

Table 1 - Soil Analytical Summary Table

#### Appendix C

Laboratory Analysis and Chain-of-Custody

#### Appendix D

Initial C-141

#### Appendix E

Groundwater Data

#### WORK PLAN

#### Concho Operating, LLC. Birdseye 32 State #001H Eddy County, New Mexico Unit Letter "O", Section 32, Township 19 South, Range 31 East Latitude 32.61882, Longitude -103.87544 2RP-4189

November 2017

#### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

American Safety Services Inc. (ASSI) has prepared this Work Plan for the Concho Operating, LLC. (COG) Birdseye 32 State #001H. This Work Plan is based upon the interpretation of the data collected by COG and ASSI.

The Birdseye 32 State #001H (referred to hereinafter as the "Site" or "subject Site") is located in Unit Letter "O", Section 32, Township 19 South, Range 31 East, Eddy County, New Mexico (GPS 32.61882N, -103.87544W).

Remedial actions were conducted by COG and ASSI in accordance with New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (NMOCD) rules (*NMAC 19.15.29 Release Notification*) and the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

#### 1.2 **Project Objective**

The objective of the Work Plan is to present documentation of the activities that were performed to date and to request an effective means to remediate the Site.

#### 1.3 Standard of Care

ASSI's services are performed in accordance with standards provided by a firm rendering the same or similar services in the area during the same time period. ASSI makes no warranties, express or implied, as to the services performed hereunder. Additionally, ASSI does not warranty the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed with the client.

**COG – Birdseye 32 State #001H** Work Plan November 2017 Page 2

#### 1.4 Reliance

This report has been prepared for the exclusive use of COG, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of COG and ASSI. Any unauthorized distribution or reuse is at the sole risk of COG. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and ASSI's Agreement. The limitation of liability defined in the agreement is the aggregate limit of ASSI's liability to the client.

#### 2.0 SITE RANKING & PROPOSED REMEDIAL ACTION GOALS

The Site is subject to regulatory oversight by the NMOCD. To address activities related to releases, the NMOCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the NMOCD rules, specifically NMAC 19.15.29 *Release Notification.* These documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases*, ASSI utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Rankin	Ranking Score					
	<50 feet	20				
Depth to Groundwater	50 to 99 feet	10	0			
	>100 feet	0				
Wellhead Protection Area, <a></a>	Yes	Yes 20				
source, or; <200 feet from private domestic water source.	No	0	0			
Distance to Surface Water	<200 feet	20				
Body	200 to 1,000 feet	10	0			
Воду	>1,000 feet 0					
Total Rai	0					

Based on ASSI's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 0. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone is 350 to 400 feet at the Site.
- The impacted area is greater than 200 feet from a private domestic water source.
- Distance to the nearest surface water body is greater than 1,000 ft.

Based on a Total Ranking Score of 0, cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for Benzene, 50 mg/Kg for Total Benzene, Toluene,

Ethylbenzene, and Xylene (BTEX), 5,000 mg/Kg for Total Petroleum Hydrocarbons (TPH), and 600 mg/Kg for Chloride.

Figures 1 and 2 show the location of The Site in Eddy County, New Mexico and surrounding topography.

#### 3.0 INITIAL RESPONSE & ACTIVITIES

#### 3.1 Initial Response

On May 26, 2017, COG personnel responded to a reportable release that occurred on April 24<sup>th</sup>. One barrel (bbls) of oil and two hundred ninety-nine (299) bbls of produced water were released directly to the ground due to a hole in a flowline. None of the fluids were recovered. The release impacted approximately fourteen thousand four-hundred (14,400) square feet of adjacent pasture area (Figure 3).

#### 3.2 Backhoe Trenching Activities

On May 26<sup>th</sup> COG personnel along with GCI Sweatt Construction were present to collect delineation samples utilizing mechanical means (i.e., backhoe tractor).

A total of twenty-six (26) samples were collected from two (2) test trenches and four (4) cardinal horizontal sample points. Twelve (12) samples were collected from trench 1 (T1) and six (6) samples were collected from trench 2 (T2) which were analyzed for BTEX, TPH, and Chloride (Table 1). A total of six (6) samples were collected, two in each cardinal direction (i.e., North, South, East and West) for the purpose of horizontal delineation and were analyzed for Chloride (Table 1).

Two (2) test trenches (i.e., T1 and T2), were advanced to delineate Chloride at depth. Trench locations are shown on Figure 4. Discrete samples were collected from T1 at the following depths: Surface, 1', 2', 3', 4', 6', 8', 10', 12', 14', 16', and 18', below ground surface (bgs). At T2 discrete samples were collected at the following depths: Surface, 1', 2', 3', 4' and 9' bgs. Soil was field screened for Chloride utilizing electro conductivity during trenching operations.

#### 3.2.1 Trackhoe Trenching Activities

On October 27<sup>th</sup>, in response to the May 26<sup>th</sup> attempt to delineate Chloride at depth, ASSI personnel were present to collect further delineation samples utilizing mechanical means (i.e., trackhoe excavator). Mr. Ryan Reich, an ASSI environmental professional, was present to document onsite activities.

One (1) trench (Trench 2A) was advanced to delineate Chloride at depth. A total of five (5) samples were collected from the test trench and were analyzed for Chloride. Trench locations are shown on Figure 4. Discrete samples were collected from Trench 2 (A) at the following depths: 5', 6', 7', 8' and 9', bgs. Soil was field screened for Chloride utilizing electro conductivity during trenching operations.

**COG – Birdseye 32 State #001H** Work Plan November 2017 Page 4

#### 3.3 Soil Sampling Analytical Results

Analytical results were compared to the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* (Section VI A. Contaminated Soils) and show Chloride exceedances exist in soil above the NMOCD clean-up goals as discussed in Section 2.0 at both sample locations. However, at location T1 vertical delineation was achieved at a depth of fourteen (14) feet bgs with a Chloride concentration of 333 mg/Kg. At location Trench 2A (T2) vertical delineation was achieved at a depth of seven (7) feet bgs with a Chloride concentration of 308.62 mg/Kg. Each location meets the NMOCD's threshold of 600 mg/Kg satisfying clean-up goal criteria.

#### 4.0 LABORATORY ANALYTICAL METHODS

The samples were analyzed for TPH GRO/DRO utilizing EPA method SW-846 8015, BTEX using EPA method SW-846 8021B, and Chloride utilizing EPA method SW-846 300.1. Copies of the laboratory analysis are provided in Appendix C.

Soil was collected in laboratory prepared glassware, placed on ice, and packed in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to Xenco Laboratories in Midland, Texas for normal turn-around time.

Figure 4 shows the approximate location of the sampling (i.e., Trench) locations and dimensions of the proposed excavation area in relation to pertinent land features and general Site boundaries, which is included in Appendix A.

#### 5.0 WORK PLAN

Based upon the data collected and the work completed by COG and ASSI, the constituent of concern (COC) has been vertically delineated at both sample locations. Furthermore, laboratory analysis shows that TPH and BTEX concentrations are below the NMOCD clean-up goals.

Based on the analytical data presented in Table 1, COG and ASSI propose to complete a removal action of the impacted material. The area adjacent to and around T1 will be excavated to a depth of approximately four (4) feet bgs and have a 20 mil liner installed at the bottom of the excavated area. The area adjacent to and around Trench 2 (T2) will be excavated to a depth of approximately two (2) feet bgs (Figure 4). All material will be removed by mechanical means, be temporarily stockpiled onsite and subsequently removed (hauled away) offsite to a proper disposal facility under appropriate manifest. The excavated areas will be backfilled to grade with clean imported material and the surface grade contoured to the surrounding landscape.

.



## APPENDIX A

Figures

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net

#### Received by OCD: 12/16/2022 10:45:00 AM COG - Biroseye 32 State #1H Figure 1

360

Bluestern Rd

Eegend Page 24 of 141

Birdseye 32 St1H

243

8 mi

Hobbs-Hwy176

mage Landest / Conserviews Released to Imaging: 2/7/2023 2:17:12 PM © 2017 Google

Google Earth

31





Received by OCD: 12/16/2022 10:45:00 AM









**Concho Operating LLC Birdseye 32 State #001H** Eddy County, New Mexico 32.61882N, -103.87544W



# FIGURE 4

# **Proposed Excavation**

# Depths

.



## APPENDIX B

Table 1

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net

<table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container> <th an="" and="" begave="" column="" example="" index="" index<="" is="" it="" of="" pertains="" pertains.="" th="" the=""></th></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container>	
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BAMPLE DATH WEIGHT IN SUM AND LE DEFFINICIONALIZZATION         SAMPLE DATH SAMPLE DATE         SAMPLE DATE <th< td=""></th<>	
MMOCD FE: 2P-4189           SAMPLE DEPTH (bgs)         SAMPLE DATE         SOLISTATUS	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
SAMPLE DCATION         SAMPLE DEPTH (bgs)         SAMPLE DATE         SOLSTATUS         BENZENE (mg/Kg)         TOLUENE (mg/Kg)         DTAL XYLENS (mg/Kg)         TOTAL XYLENS (mg/Kg)         ROTAL SYLENS (mg/Kg)         DRO (mg/Kg)         DTAL TYLENS (mg/Kg)         DRO (mg/Kg)         DTAL SYLENS (mg/Kg)         DRO (mg/Kg)         DTAL SYLENS (mg/Kg)         DRO (mg/Kg)         DTAL SYLENS (mg/Kg)         DRO (mg/Kg)         DTAL SYLENS (mg/Kg)         DTAL SYLENS (mg/Kg)<	
SAMPLE DCATIONSAMPLE DEPTH (bg)SAMPLE DATESOLSTATUSBENZENE (mg/kg)TOLLENE (mg/kg)TOTAL XYLENESTOTAL XYLENESGRO, (mg/kg)D	
NMCD - Guidelines for Remedy Spills and Releases10NENE50NE5,0005,000600UPURINGE <td colspan<="" th=""></td>	
Vertical Delinious Sampling           T1         Surface         5/16/2017         In-Situ         <0.00364	
T1         Surface         5/16/2017         In Situ         <0.00364	
T11' $5/16/2017$ In-Situ $<0.00345$ $<0.00345$ $<0.00345$ $<0.233$ $0.2034$ $0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$ $<0.00348$	
T1         2'         5/16/2017         In-Situ         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.00348         <0.0034	
113' $5/16/2017$ In Situ $      16,000$ T14' $5/16/2017$ In Situ $   -$	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
T1         6'         5/16/2017         In-Situ         -         -         -         -         -         5,040           T1         8'         5/16/2017         In-Situ         -         -         -         -         -         5,040           T1         8'         5/16/2017         In-Situ         -         -         -         -         -         -         6,720           T1         10'         5/16/2017         In-Situ         -         -         -         -         -         -         6,720           T1         12'         5/16/2017         In-Situ         -         -         -         -         -         -         -         -         4         -         2,680           T1         12'         5/16/2017         In-Situ         -         -         -         -         -         4         3,170           T1         14'         5/16/2017         In-Situ         -         -         -         -         -         -         333           T1         16'         5/16/2017         In-Situ         -         -         -         -         -         94.0           T1 <t< td=""></t<>	
11       6       31/10/2017       In Situ       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       5/40/2017         T1       8'       5/16/2017       In-Situ       -       -       -       In-Situ       -       -       -       -       6/201       6/201 </td	
11       8       310/001       initial       1	
11       10       5/16/2017       insitu       -       -       -       -       -       -       2,600         T1       12'2       5/16/2017       insitu       -       -       -       -       -       4,700       3,700         T1       14'       5/16/2017       insitu       -       -       -       -       -       -       3,330         T1       16'       5/16/2017       insitu       -       -       -       -       -       -       3,330         T1       16'       5/16/2017       insitu       -       -       -       -       -       -       9,400         T1       18'       5/16/2017       insitu       -       -       -       -       -       -       9,400         T1       18'       5/16/2017       insitu       -       -       -       -       -       -       9,400	
11       11 <td< td=""></td<>	
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11         10         3/10/2017         image         1 <th1< th=""> <th1< th=""> <th1< th=""> <!--</td--></th1<></th1<></th1<>	
11 16 3/10/2017 III-510 - C C C C C C C C C C C C C C C C C C	
T2 Surface 5/16/2017 In-Situ < <a></a> <a></a> <a></a> 5/16/20171n-Situ<	
T2         1'         5/16/2017         In-Situ         <0.00389         <0.00389         <0.00389         <0.00389         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0	
T2         2'         5/16/2017         In-Situ         <0.00351         <0.00351         <0.00351         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0         <15.0	
T2 3' 5/16/2017 In-Situ 73.2	
T2 4' 5/16/2017 In-Situ 112	
T2 9' 5/16/2017 In-Situ 4,490	
Trench 2 A         5'         10/27/2017         In-Situ         -         -         -         -         -         376.16	
Trench 2 A         6'         10/27/2017         In-Situ         -         -         -         -         1,010.7	
Trench 2 A         7'         10/27/2017         In-Situ         -         -         -         -         308.62	
Trench 2 A         8'         10/27/2017         In-Situ         -         -         -         -         -         203.22	
Trench 2 A         9'         10/27/2017         In-Situ         -         -         -         -         -         364.88	
West         Surface         3/21/2017         In-Situ         -         -         -         -         -         -         65.0	
West         1'         3/21/2017         In-Situ         -         -         -         -         -         25.1	
East Surface 3/21/2017 In-Situ 99.6	
East 1' 3/21/2017 In-Situ <	
North Surface 3/21/2017 In-Situ 23.9	
North         1'         3/21/2017         In-Situ         -	
Suth Suface 3/21/2017 In:Situ	
South 1' 3/2/2017 in-Situ 117	

mg/Kg - milligrams per Kilogram

- = Not Established

Concentrations in BOLD exceed the NMOCD Guidelines

Proposed excavted area

Proposed area for liner



## APPENDIX C

Laboratory Analysis

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net





Project Id:

Contact:Aaron LiebProject Location:Birdseye 32 St #1H

Certificate of Analysis Summary 553603

COG Operating LLC, Artesia, NM Project Name: Birdseye 32 St #1H



Date Received in Lab:Sat May-20-17 10:30 amReport Date:31-MAY-17Project Manager:Liz Givens

	Lab Id:	553603-0	001	553603-002		553603-003		553603-004		553603-005		553603-006	
Analysis Paguested	Field Id:	T1-Surfa	ace	T1-1	,	T1-2'		T1-3'		T1-4'		T1-6'	
Analysis Kequesiea	Depth:			1 ft		2 ft		3 ft		4 ft		6 ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-16-17	11:30	May-16-17	11:30	May-16-17	11:30	May-16-17	11:30	May-16-17	1:30	May-16-17	11:30
BTEX by EPA 8021B	Extracted:	May-24-17 07:30		May-23-17 07:30		May-23-17 07:30							
	Analyzed:	May-24-17	08:58	May-23-17	11:12	May-23-17	10:55						
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		< 0.00364	0.00364	< 0.00345	0.00345	< 0.00348	0.00348						
Toluene		< 0.00364	0.00364	< 0.00345	0.00345	< 0.00348	0.00348						
Ethylbenzene		< 0.00364	0.00364	< 0.00345	0.00345	< 0.00348	0.00348						
m,p-Xylenes		< 0.00727	0.00727	0.167	0.00690	< 0.00697	0.00697						
o-Xylene		< 0.00364	0.00364	0.0660	0.00345	< 0.00348	0.00348						
Total Xylenes		< 0.00364	0.00364	0.233	0.00345	< 0.00348	0.00348						
Total BTEX		< 0.00364	0.00364	0.233	0.00345	< 0.00348	0.00348						
Inorganic Anions by EPA 300/300.1	Extracted:	May-25-17 21:48		May-25-17 21:48		May-25-17	21:48	May-25-17	21:48	May-25-17 21:48		May-25-17 21:48	
SUB: TX104704215	Analyzed:	May-25-17 22:54		May-25-17 23:03		May-25-17 23:12		May-25-17 23:40		May-25-17 23:50		May-25-17 23:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3120	48.5	1810	9.60	11400	98.8	16000	97.8	11200	95.8	5040	48.3
TPH By SW8015 ModExtracted:		May-24-17 11:00		May-24-17 11:00		May-24-17 11:00							
Analyzed:		May-24-17	13:52	May-24-17	14:12	May-24-17	14:32						
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
C6-C10 Gasoline Range Hydrocarbons		69.0	15.0	89.3	15.0	<15.0	15.0						
C10-C28 Diesel Range Hydrocarbons		425	15.0	626	15.0	<15.0	15.0						
Total TPH		494	15.0	715	15.0	<15.0	15.0						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Bland Ritinson

Brandi Ritcherson Project Manager



Project Id:Contact:Aaron LiebProject Location:Birdseye 32 St #1H

Certificate of Analysis Summary 553603

COG Operating LLC, Artesia, NM Project Name: Birdseye 32 St #1H



Date Received in Lab:Sat May-20-17 10:30 amReport Date:31-MAY-17Project Manager:Liz Givens

	Lab Id:	553603-0	553603-007		553603-008		553603-009		553603-010		553603-011		)12
Analysis Paguested	Field Id:	T1-8'		T1-10'		T1-12'		T1-14'		T1-16'		T1-18'	
Analysis Requested	Depth:	8 ft		10 ft		12 ft		14 ft		16 ft		18 ft	
	Matrix:	SOIL		SOIL									
	Sampled:	May-16-17 11:45		May-16-17 11:45		May-16-17 11:45		May-16-17 11:45		May-16-17 12:00		May-16-17 12:00	
Inorganic Anions by EPA 300/300.1	Extracted:	May-25-17 21:48		May-25-17 21:48		May-25-17 2	21:48	May-25-17	21:48	May-25-17 21:48		May-25-17 21:48	
SUB: TX104704215	Analyzed:	May-26-17 (	00:08	May-26-17	00:18	May-26-17 (	00:27	May-26-17	00:36	May-26-17	01:04	May-26-17	01:33
	Units/RL:	mg/kg	RL	mg/kg	RL								
Chloride		6720	48.6	2680	45.5	3170	49.5	333	9.98	94.0	9.94	162	9.82

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brand Rotinson

Brandi Ritcherson Project Manager





Project Id:

Contact:Aaron LiebProject Location:Birdseye 32 St #1H

Certificate of Analysis Summary 553603

COG Operating LLC, Artesia, NM Project Name: Birdseye 32 St #1H



Date Received in Lab:Sat May-20-17 10:30 amReport Date:31-MAY-17Project Manager:Liz Givens

	Lab Id:	553603-0	013	553603-0	014	553603-0	015	553603-0	16	553603-0	17	553603-0	018
Analysis Paguastad	Field Id:	T2-Surfa	ice	T2-1'		T2-2'		T2-3'		T2-4'		T2-9'	
Analysis Kequestea	Depth:			1 ft		2 ft		3 ft		4 ft		9 ft	
	Matrix:	SOIL		SOIL	,	SOIL	,	SOIL		SOIL		SOIL	
	Sampled:	May-16-17	12:15	May-16-17	12:15	May-16-17	12:15	May-16-17	12:15	May-16-17	12:15	May-16-17	12:15
BTEX by EPA 8021B	Extracted:	May-23-17	07:30	May-23-17	07:30	May-23-17	07:30						
	Analyzed:	May-23-17	10:39	May-23-17	13:55	May-23-17	10:06						
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Toluene		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Ethylbenzene		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
m,p-Xylenes		< 0.00704	0.00704	< 0.00778	0.00778	< 0.00702	0.00702						
o-Xylene		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Total Xylenes		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Total BTEX		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Inorganic Anions by EPA 300/300.1	Extracted:	May-25-17 21:48		May-25-17 21:48		May-25-17	21:48	May-25-17	21:48	May-25-17 21:48		May-25-17 21:48	
SUB: TX104704215	Analyzed:	May-26-17	01:42	May-26-17	01:51	May-26-17	02:01	May-26-17 (	02:10	May-26-17 (	)2:19	May-26-17	02:29
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2510	96.3	304	9.71	2660	97.8	73.2	9.58	112	9.49	4490	46.9
TPH By SW8015 Mod	TPH By SW8015 Mod   Extracted:   May-24-		May-24-17 11:00		May-24-17 11:00		11:00						
	Analyzed:	May-24-17	15:37	May-24-17	15:59	May-24-17	16:20						
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
C6-C10 Gasoline Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0						
C10-C28 Diesel Range Hydrocarbons		722	15.0	<15.0	15.0	<15.0	15.0						
Total TPH		722	15.0	<15.0	15.0	<15.0	15.0						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Bland Ritinson

Brandi Ritcherson Project Manager

## Analytical Report 553603

for COG Operating LLC

**Project Manager: Aaron Lieb** 

Birdseye 32 St #1H

#### 31-MAY-17

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





31-MAY-17

Project Manager: **Aaron Lieb COG Operating LLC** 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): **553603 Birdseye 32 St #1H** Project Address: Birdseye 32 St #1H

#### Aaron Lieb:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 553603. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 553603 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

mand

Brandi Ritcherson Project Manager

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

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### Sample Cross Reference 553603



#### COG Operating LLC, Artesia, NM

Birdseye 32 St #1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T1-Surface	S	05-16-17 11:30	N/A	553603-001
T1-1'	S	05-16-17 11:30	- 1 ft	553603-002
T1-2'	S	05-16-17 11:30	- 2 ft	553603-003
T1-3'	S	05-16-17 11:30	- 3 ft	553603-004
T1-4'	S	05-16-17 11:30	- 4 ft	553603-005
T1-6'	S	05-16-17 11:30	- 6 ft	553603-006
T1-8'	S	05-16-17 11:45	- 8 ft	553603-007
T1-10'	S	05-16-17 11:45	- 10 ft	553603-008
T1-12'	S	05-16-17 11:45	- 12 ft	553603-009
T1-14'	S	05-16-17 11:45	- 14 ft	553603-010
T1-16'	S	05-16-17 12:00	- 16 ft	553603-011
T1-18'	S	05-16-17 12:00	- 18 ft	553603-012
T2-Surface	S	05-16-17 12:15	N/A	553603-013
T2-1'	S	05-16-17 12:15	- 1 ft	553603-014
T2-2'	S	05-16-17 12:15	- 2 ft	553603-015
T2-3'	S	05-16-17 12:15	- 3 ft	553603-016
T2-4'	S	05-16-17 12:15	- 4 ft	553603-017
T2-9'	S	05-16-17 12:15	- 9 ft	553603-018


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Client Name: COG Operating LLC Project Name: Birdseye 32 St #1H

Project ID: Work Order Number(s): 553603

BORATORIES

Report Date: *31-MAY-17* Date Received: *05/20/2017* 

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3018068 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3018240 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





### COG Operating LLC, Artesia, NM

	Matrix:	Soil		Ľ	ate Received:05.2	20.17 10.30	)
	Date Coll	ected: 05.16	.17 11.30				
nions by EPA 300/30	0.1			Р	rep Method: E30	)0P	
·				%	5 Moisture:		
	Date Prer	· 05.25	17 21 48	В	asis: We	t Weight	
	Date Trep	. 05.25	.17 21.40	S	UB· TX1047042	15	
				5	00.171047042	15	
Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
16887-00-6	3120	48.5		mg/kg	05.25.17 22.54		5
V8015 Mod				Р	rep Method: TX	1005P	
				%	Moisture:		
	Date Prer	05.24	.17 11.00	В	asis: We	t Weight	
	Dute Prep					8	
Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
PHC610	69.0	15.0		mg/kg	05.24.17 13.52		1
ns C10C28DRO	425	15.0		mg/kg	05.24.17 13.52		1
PHC635	494	15.0		mg/kg	05.24.17 13.52		1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	113	%	70-135	05.24.17 13.52		
	04 13 1	117	70	10 133	03.24.17 13.52		
PA 8021B				Р	rep Method: SW	5030B	
				%	Moisture:		
	Date Prep	: 05.24	.17 07.30	В	asis: We	t Weight	
	Date Prep	: 05.24	.17 07.30	В	asis: We	t Weight	
Cas Number	Date Prep Result	e: 05.24 RL	.17 07.30	B Units	asis: We Analysis Date	t Weight Flag	Dil
<b>Cas Number</b> 71-43-2	Date Prep Result <0.00364	RL 0.00364	17 07.30	B Units mg/kg	Analysis Date 05.24.17 08.58	t Weight Flag U	<b>Dil</b>
Cas Number 71-43-2 108-88-3	Date Prep <b>Result</b> <0.00364 <0.00364	RL 0.00364 0.00364	17 07.30	B Units mg/kg mg/kg	Analysis Date 05.24.17 08.58 05.24.17 08.58	t Weight Flag U U	<b>Dil</b> 1 1
Cas Number 71-43-2 108-88-3 100-41-4	Date Prep <b>Result</b> <0.00364 <0.00364 <0.00364	RL           0.00364           0.00364           0.00364           0.00364	.17 07.30	Units mg/kg mg/kg mg/kg	Analysis Date           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58	t Weight Flag U U U	<b>Dil</b> 1 1 1
Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep <b>Result</b> <0.00364 <0.00364 <0.00364 <0.00727	RL           0.00364           0.00364           0.00364           0.00364           0.00364           0.003727	.17 07.30	Units mg/kg mg/kg mg/kg mg/kg	Analysis Date           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58	Flag U U U U U U	<b>Dil</b> 1 1 1 1
Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep <b>Result</b> <0.00364 <0.00364 <0.00727 <0.00364	RL           0.00364           0.00364           0.00364           0.00364           0.00727           0.00364	.17 07.30	Units Mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58	Flag U U U U U U U	<b>Dil</b> 1 1 1 1 1 1
Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	Result           <0.00364	RL           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364	.17 07.30	B Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58	t Weight Flag U U U U U U U	<b>Dil</b> 1 1 1 1 1 1 1
Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	Result           <0.00364	RL           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364	.17 07.30	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58	Flag U U U U U U U U U U	<b>Dil</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<b>Cas Number</b> 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	Date Prep Result <0.00364 <0.00364 <0.00727 <0.00364 <0.00364 <0.00364 <0.00364 <cas number<="" td=""><td>RL           0.00364           0.00364           0.00364           0.00364           0.00727           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           %           Recovery</td><td>17 07.30</td><td>Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg</td><td>Analysis Date           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58</td><td>Flag U U U U U U U U Tlag</td><td><b>Dil</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td></cas>	RL           0.00364           0.00364           0.00364           0.00364           0.00727           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           %           Recovery	17 07.30	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58	Flag U U U U U U U U Tlag	<b>Dil</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cas Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	Result           <0.00364	RL           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           0.00364           %           Recovery           102	Units %	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg s0-120	Analysis Date           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58           05.24.17 08.58	Flag U U U U U U U U U Flag	<b>Dil</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Cas Number         16887-00-6         V8015       Mod         Cas Number         PHC610       PHC635         ns       PHC610         PHC635       PHC635	Matrix: Date Coll Date Prep Cas Number Result 16887-00-6 3120 V8015 Mod V8015 Mod Date Prep Cas Number Result PHC610 69.0 Matrix: PHC635 494 Cas Number 111-85-3 84-15-1	Matrix: 501 Date Collected: 05.16. Date Prep: 05.25. Cas Number Result RL 16887-00-6 3120 48.5 V8015 Mod V8015 Mod Cas Number Result RL PHC610 69.0 15.0 ns C10C28DRO 425 15.0 PHC635 494 15.0 PHC635 494 15.0 % Cas Number Recovery 111-85-3 113 84-15-1 117	Matrix: 500 Date Collected: 05.16.17 11.30 anions by EPA 300/300.1 Date Prep: 05.25.17 21.48 <u>Cas Number</u> <u>Result</u> <u>RL</u> 16887-00-6 <u>3120</u> 48.5 W8015 Mod <u>Cas Number</u> <u>Result</u> <u>RL</u> <u>PHC610</u> 69.0 15.0 <u>PHC635</u> 494 15.0 PHC635 494 15.0 <u>Cas Number</u> <u>%</u> <u>Cas Number</u> <u>%</u> <u>111-85-3</u> 113 % 84-15-1 117 %	Matrix:     Son     L       Date Collected: 05.16.17 11.30     P       anions by EPA 300/300.1     P       Date Prep:     05.25.17 21.48     B       S     Cas Number     Result     RL     Units       16887-00-6     3120     48.5     mg/kg       V8015 Mod     P     %     Date Prep:     05.24.17 11.00       E     Cas Number     Result     RL     Units       05.24.17 11.00     B     %     Matrix:       V8015 Mod     P     9.0     15.0     mg/kg       V8015 Mod     P     Cas Number     Result     RL     Units       Nate Prep:     05.24.17 11.00     B     %       PHC610     69.0     15.0     mg/kg       ns     C10C28DRO     425     15.0     mg/kg       PHC635     494     15.0     mg/kg       111-85-3     113<%	Matrix:       Son       Date Received.05         Date Collected:       05.16.17       11.30         Inions by EPA 300/300.1       Prep Method:       E30         Date Prep:       05.25.17       21.48       Basis:       We         SUB:       TX10470421       TX10470421       Moisture:         Date Prep:       05.25.17       21.48       Basis:       We         SUB:       TX10470421       TX10470421       Moisture:         Date Prep:       05.25.17       21.48       Basis:       We         V8015 Mod       Prep Method:       TX       % Moisture:         Date Prep:       05.24.17       11.00       Basis:       We         V8015 Mod       Prep Method:       TX       % Moisture:         Date Prep:       05.24.17       11.00       Basis:       We         V8015 Mod       Prep Method:       TX       % Moisture:         Date Prep:       05.24.17       13.52       Method:       TX         ns       C10C28DRO       425       15.0       mg/kg       05.24.17       13.52         PHC635       494       15.0       mg/kg       05.24.17       13.52         Kas Number       %	Matrix.       301       Date Values         Date Collected: 05.16.17 11.30       Prep Method: E300P         % Moisture:       Date Prep:       05.25.17 21.48         Date Prep:       05.25.17 21.48       Basis:       Wet Weight         SUB: TX104704215       SUB: TX104704215       SUB: TX104704215         Cas Number       Result       RL       Units       Analysis Date       Flag         16887-00-6       3120       48.5       mg/kg       05.25.17 22.54         V8015 Mod       Prep Method:       TX1005P       %         V8015 Mod       Prep Method:       TX1005P         Date Prep:       05.24.17 11.00       Basis:       Wet Weight         Date Prep:       05.24.17 11.00       Basis:       Wet Weight         0as       C10C28DRO       425       15.0       mg/kg       05.24.17 13.52         PHC635       494       15.0       mg/kg       05.24.17 13.52       Flag         111-85-3       113       %       70-135       05.24.17 13.52         PA 8021B       Prep Method:       SW5030B       %       Moisture:



BORATORIES

# **Certificate of Analytical Results 553603**



#### COG Operating LLC, Artesia, NM

Sample Id: T1-1'		Matrix:	Soil		Γ	Date Received:05.	20.17 10.3	0	
Lab Sample Id: 553603-002		Date Coll	ected: 05.16	.17 11.30	S	Sample Depth: 1 ft			
Analytical Method: Inorganic Anion	s by EPA 300/30	00.1			F	Prep Method: E30	00P		
Tech: DHE					9	6 Moisture:			
Analyst: DHE		Date Pren	05.25	17 21.48	F	Basis: We	t Weight		
Sea Number: 3018295		Duterrep		117 21110	5	SUB· TX1047042	15		
bed itemper. Solozie							15		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	1810	9.60		mg/kg	05.25.17 23.03		1	
Analytical Method: TPH By SW801	5 Mod				F	Prep Method: TX	1005P		
Tech: ARM					9	6 Moisture:			
Analyst: ARM		Date Pren	: 05.24	.17 11.00	E	Basis: We	t Weight		
Seq Number: 3018186		r					U		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
C6-C10 Gasoline Range Hydrocarbons	PHC610	89.3	15.0		mg/kg	05.24.17 14.12		1	
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	626	15.0		mg/kg	05.24.17 14.12		1	
Total TPH	PHC635	715	15.0		mg/kg	05.24.17 14.12		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	94	%	70-135	05.24.17 14.12			
o-Terphenyl		84-15-1	85	%	70-135	05.24.17 14.12			
Analytical Method: BTEX by EPA 8	3021B				F	Prep Method: SW	75030B		
Tech: ALJ					9	6 Moisture:			
Analyst: ALJ		Date Prep	: 05.23	.17 07.30	E	Basis: We	t Weight		
Seq Number: 3018068									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Benzene	71-43-2	< 0.00345	0.00345		mg/kg	05.23.17 11.12	U	1	
Toluene	108-88-3	< 0.00345	0.00345		mg/kg	05.23.17 11.12	U	1	
Ethylbenzene	100-41-4	< 0.00345	0.00345		mg/kg	05.23.17 11.12	U	1	
m,p-Xylenes	179601-23-1	0.167	0.00690		mg/kg	05.23.17 11.12		1	
o-Xylene	95-47-6	0.0660	0.00345		mg/kg	05.23.17 11.12		1	
Total Xylenes	1330-20-7	0.233	0.00345		mg/kg	05.23.17 11.12		1	
Total BTEX		0.233	0.00345		mg/kg	05.23.17 11.12		1	
Surrogate		Cas Number	%	Units	Limits	Analysis Date	Flag		
1,4-Difluorobenzene		540-36-3	95	%	80-120	05.23.17 11.12			
4-Bromofluorobenzene		460-00-4	103	%	80-120	05.23.17 11.12			



BORATORIES

# **Certificate of Analytical Results 553603**



#### COG Operating LLC, Artesia, NM

Sample Id: T1-2'		Matrix:	Soil		Γ	Date Received:05.	20.17 10.3	0
Lab Sample Id: 553603-003		Date Coll	ected: 05.16	5.17 11.30	S	ample Depth: 2 f	t	
Analytical Method: Inorganic Anio	ons by EPA 300/30	00.1			Р	Prep Method: E30	)0P	
Tech: DHE					%	6 Moisture:		
Analyst: DHE		Date Pren	o: 05.25	5.17 21.48	В	Basis: We	t Weight	
Seq Number: 3018295		Dure I rep			S	UB: TX1047042	15	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11400	98.8		mg/kg	05.25.17 23.12		10
Analytical Method: TPH By SW80	15 Mod				q	ren Method: TX	1005P	
Tech: ARM	15 100				0/	hep method. 174	10051	
Analyst: ARM		Data Daar		17 11 00	, E	Pasis: Wa	t Weight	
Allaryst. ANN		Date Prep	): 05.24	.17 11.00	E	basis. we	t weight	
Seq Number: 5010100								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.24.17 14.32	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.24.17 14.32	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.24.17 14.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	05.24.17 14.32	0	
o-Terphenyl		84-15-1	100	%	70-135	05.24.17 14.32		
Analytical Method: BTEX by EPA	8021B				Р	rep Method: SW	5030B	
Tech: ALJ					%	6 Moisture:		
Analyst: ALJ		Date Prep	: 05.23	.17 07.30	B	Basis: We	t Weight	
Seq Number: 3018068								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Toluene	108-88-3	< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Ethylbenzene	100-41-4	< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00697	0.00697		mg/kg	05.23.17 10.55	U	1
o-Xylene	95-47-6	<0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Total Xylenes	1330-20-7	<0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Total BTEX		< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	80-120	05.23.17 10.55	-	
4-Bromofluorobenzene		460-00-4	106	%	80-120	05.23.17 10.55		



ABORATORIES

# **Certificate of Analytical Results 553603**



## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-3'</b> l: 553603-004		Matrix: Date Collec	Soil cted: 05.16.17 11.30		Date Received:05.20.17 10.30 Sample Depth: 3 ft		
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight	
Seq Number:	3018295				, I	SUB: TX10470	04215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride		16887-00-6	16000	97.8	mg/kg	05.25.17 23.4	0	10



ABORATORIES

# **Certificate of Analytical Results 553603**



## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-4'</b> 1: 553603-005		Matrix: Date Collec	Soil cted: 05.16.17 11.30		Date Received Sample Depth:	Date Received:05.20.17 10.30 Sample Depth:4 ft		
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P		
Tech:	DHE					% Moisture:			
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight		
Seq Number:	3018295					SUB: TX1047	04215		
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil	
Chloride		16887-00-6	11200	95.8	mg/kg	05.25.17 23.5	50	10	



ABORATORIES

# **Certificate of Analytical Results 553603**



## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-6'</b> 1: 553603-006		Matrix: Date Collec	Soil cted: 05.16.17 11.30		Date Received:05.20.17 10.30 Sample Depth: 6 ft		
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight	
Seq Number:	3018295					SUB: TX10470	04215	
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Chloride		16887-00-6	5040	48.3	mg/kg	05.25.17 23.5	59	5





### COG Operating LLC, Artesia, NM

Birdseye 32 St #1H

Sample Id: Lab Sample Id	<b>T1-8'</b> l: 553603-007		Matrix: Date Collec	Soil cted: 05.16.17 11.45		Date Received:05.20.17 10.30 Sample Depth: 8 ft		
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight	
Seq Number:	3018295				1	SUB: TX10470	04215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride		16887-00-6	6720	48.6	mg/kg	05.26.17 00.0	08	5

**Released to Imaging: 2/7/2023 2:17:12 PM** 





## COG Operating LLC, Artesia, NM

Sample Id:	T1-10'		Matrix:	Soil	l	Date Received:	05.20.17 10.30	)
Lab Sample Io	1: 553603-008		Date Collec	cted: 05.16.17 11.45	\$	Sample Depth:	10 ft	
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1			l	Prep Method: 1	E300P	
Tech:	DHE				Q	% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48	]	Basis:	Wet Weight	
Seq Number:	3018295				2	SUB: TX10470	4215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride		16887-00-6	2680	45.5	mg/kg	05.26.17 00.1	8	5





## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-12'</b> l: 553603-009		Matrix: Date Collec	Soil cted: 05.16.17 11.45		Date Received: Sample Depth:	Date Received:05.20.17 10.30 Sample Depth: 12 ft			
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method: % Moisture:	E300P			
Analyst:	DHE 3018295		Date Prep:	05.25.17 21.48		Basis:	Wet Weight			
Parameter	3010273	Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil		
Chloride		16887-00-6	3170	49.5	mg/kg	05.26.17 00.2	27	5		





## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-14'</b> l: 553603-010		Matrix: Date Collec	Soil cted: 05.16.17 11.45	]	Date Received:05.20.17 10.30 Sample Depth: 14 ft		
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			]	Prep Method: % Moisture:	E300P	
Analyst:	DHE		Date Prep:	05.25.17 21.48	]	Basis:	Wet Weight	
Seq Number: Parameter	3018295	Cas Number	Result	RL	Units	SUB: TX1047( Analysis Da	)4215 te Flag	Dil
Chloride		16887-00-6	333	9.98	mg/kg	05.26.17 00.3	36	1





## COG Operating LLC, Artesia, NM

Sample Id:	T1-16'		Matrix:	Soil	l	Date Received:	05.20.17 10.30	)
Lab Sample Io	l: 553603-011		Date Collec	cted: 05.16.17 12.00	\$	Sample Depth:	16 ft	
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			l	Prep Method: 1	E300P	
Tech:	DHE				Q	% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48	]	Basis:	Wet Weight	
Seq Number:	3018295				2	SUB: TX10470	4215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride		16887-00-6	94.0	9.94	mg/kg	05.26.17 01.0	4	1





## COG Operating LLC, Artesia, NM

Sample Id:	T1-18'		Matrix:	Soil		Date Received:	05.20.17 10.3	0
Lab Sample Io	1: 553603-012		Date Collec	cted: 05.16.17 12.00		Sample Depth:	18 ft	
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method: 1	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight	
Seq Number:	3018295					SUB: TX10470	4215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride		16887-00-6	162	9.82	mg/kg	05.26.17 01.3	3	1





## COG Operating LLC, Artesia, NM

Sample Id: <b>T2-Surface</b>		Matrix:	Soil		Ι	Date Received:05.2	20.17 10.3	0	
Lab Sample Id: 553603-013		Date Coll	ected: 05.16	5.17 12.15					
Analytical Method: Inorganic Anion Tech: DHE	s by EPA 300/30	00.1			F 9	Prep Method: E30 % Moisture:	)0P		
Analyst: DHE		Date Prep	: 05.25	5.17 21.48	ŀ	Basis: We	t Weight		
Seq Number: 3018295					S	SUB: TX1047042	15		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	2510	96.3		mg/kg	05.30.17 17.29		10	
Analytical Method: TPH By SW801:	5 Mod				F	Prep Method: TX	1005P		
Tech: ARM					9	% Moisture:			
Analyst: ARM		Date Prep	: 05.24	.17 11.00	F	Basis: We	t Weight		
Seq Number: 3018186							C		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.24.17 15.37	U	1	
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	722	15.0		mg/kg	05.24.17 15.37		1	
Total TPH	PHC635	722	15.0		mg/kg	05.24.17 15.37		1	
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	82	%	70-135	05.24.17 15.37			
o-Terphenyl		84-15-1	81	%	70-135	05.24.17 15.37			
Analytical Method: BTEX by EPA 8	021B				F	Prep Method: SW	5030B		
			05.00	17.07.20	7		• <b>W</b> /-:-1-4		
Analyst: ALJ		Date Prep	: 05.23	0.17 07.30	ſ	basis: we	tweight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Benzene	71-43-2	<0.00352	0.00352		mg/kg	05.23.17 10.39	U	1	
Toluene	108-88-3	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1	
Ethylbenzene	100-41-4	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1	
m,p-Xylenes	179601-23-1	< 0.00704	0.00704		mg/kg	05.23.17 10.39	U	1	
o-Xylene	95-47-6	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1	
Total Xylenes	1330-20-7	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1	
Total BTEX		< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene		460-00-4	91	%	80-120	05.23.17 10.39			
1,4-Difluorobenzene		540-36-3	95	%	80-120	05.23.17 10.39			



BORATORIES

# **Certificate of Analytical Results 553603**



#### COG Operating LLC, Artesia, NM

Sample Id: T2-1'		Matrix:	Soil		Γ	Date Received:05.	20.17 10.3	0		
Lab Sample Id: 553603-014		Date Coll	ected: 05.16	.17 12.15	Sample Depth: 1 ft					
Analytical Method: Inorganic Anio	ns by EPA 300/30	00.1			P	rep Method: E30	00P			
Tech: DHE					9	6 Moisture:				
Analyst: DHE		Date Prer	05.25	.17 21.48	E	Basis: We	t Weight			
Seq Number: 3018295		Dute Trep			S	UB: TX1047042	15			
Demos 4	Coo Normhor	D14	DI		<b>T</b> T •/			<b>D</b> "		
Parameter	16887 00 6	Result	RL 9.71		Units	Analysis Date	Flag	Dil 		
	10007 00 0	504	5.71		iiig/ kg	03.20.17 01.51		1		
Analytical Method: TPH By SW80	15 Mod				P	rep Method: TX	1005P			
Tech: ARM					9	6 Moisture:				
Analyst: ARM		Date Prep	: 05.24	.17 11.00	E	Basis: We	t Weight			
Seq Number: 3018186										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.24.17 15.59	U	1		
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.24.17 15.59	U	1		
Total TPH	PHC635	<15.0	15.0		mg/kg	05.24.17 15.59	U	1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	92	%	70-135	05.24.17 15.59				
o-Terphenyi		84-13-1	94	%	/0-135	05.24.17 15.59				
Analytical Method: BTEX by EPA	8021B				P	rep Method: SW	5030B			
Tech: ALJ					9	6 Moisture:				
Analyst: ALJ		Date Prep	05.23	.17 07.30	E	Basis: We	t Weight			
Seq Number: 3018068										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Benzene	71-43-2	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Toluene	108-88-3	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Ethylbenzene	100-41-4	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
m,p-Xylenes	179601-23-1	< 0.00778	0.00778		mg/kg	05.23.17 13.55	U	1		
o-Xylene	95-47-6	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Total Xylenes	1330-20-7	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Total BTEX		< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag			
4-Bromofluorobenzene		460-00-4	87	%	80-120	05.23.17 13.55				
1,4-Difluorobenzene		540-36-3	86	%	80-120	05.23.17 13.55				





### COG Operating LLC, Artesia, NM

Sample Id: T2-2'		Matrix:	Soil		Γ	Date Received:05.	20.17 10.3	0		
Lab Sample Id: 553603-015		Date Coll	ected: 05.16	5.17 12.15	Sample Depth: 2 ft					
Analytical Method: Inorganic Anio	ns by EPA 300/30	00.1			P	Prep Method: E30	)0P			
Tech: DHE					9	6 Moisture:				
Analyst: DHE		Date Pren	05.25	.17 21.48	E	Basis: We	t Weight			
Sea Number: 3018295		Duterrep			S	UB· TX1047042	15			
beq rumber. Solozie						0.00.0000000000000000000000000000000000	15			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	2660	97.8		mg/kg	05.30.17 18.30		10		
Analytical Method: TPH By SW80	15 Mod				P	rep Method: TX	1005P			
Tech: ARM					9	6 Moisture:				
Analyst: ARM		Date Pren	· 05.24	. 17 11 00	F	asis <sup>.</sup> We	t Weight			
Seq Number: 3018186		Date Trep	. 00.21	, 11.00	-		e ii eigiit			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.24.17 16.20	U	1		
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.24.17 16.20	U	1		
Total TPH	PHC635	<15.0	15.0		mg/kg	05.24.17 16.20	U	1		
Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	94	%	70-135	05.24.17 16.20				
o-Terphenyl		84-15-1	96	%	70-135	05.24.17 16.20				
Analytical Method: BTEX by EPA	8021B				F	rep Method: SW	5030B			
Tech: ALJ					%	6 Moisture:				
Analyst: ALJ		Date Prep	: 05.23	0.17 07.30	E	Basis: We	t Weight			
Seq Number: 3018068										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Benzene	71-43-2	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Toluene	108-88-3	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Ethylbenzene	100-41-4	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
m,p-Xylenes	179601-23-1	< 0.00702	0.00702		mg/kg	05.23.17 10.06	U	1		
o-Xylene	95-47-6	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Total Xylenes	1330-20-7	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Total BTEX		< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
6			%	TT24	T	Angle 1 D (	<b>F</b> I -			
Surrogate		Cas Number	Recovery	Units		Analysis Date	riag			
1,4-Difluorobenzene		540-36-3 460-00-4	90 114	%	80-120	05.23.17 10.06				
4-Bromonuorobenzene		400-00-4	114	%0	80-120	05.23.17 10.06				





## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T2-3'</b> l: 553603-016		Matrix: Date Collec	Soil cted: 05.16.17 12.15	Date Received:05.20.17 10.30 Sample Depth: 3 ft					
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P			
Tech:	DHE					% Moisture:				
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight			
Seq Number:	3018295				1	SUB: TX10470	4215			
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil		
Chloride		16887-00-6	73.2	9.58	mg/kg	05.26.17 02.1	0	1		





## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T2-4'</b> l: 553603-017		Matrix: Date Collec	Soil cted: 05.16.17 12.15	Date Received:05.20.17 10.30 Sample Depth: 4 ft					
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P			
Tech:	DHE					% Moisture:				
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight			
Seq Number:	3018295					SUB: TX1047	04215			
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil		
Chloride		16887-00-6	112	9.49	mg/kg	05.26.17 02.	19	1		





## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T2-9'</b> l: 553603-018		Matrix: Date Collec	Soil cted: 05.16.17 12.15	Date Received:05.20.17 10.30 Sample Depth: 9 ft					
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P			
Tech:	DHE					% Moisture:				
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight			
Seq Number:	3018295					SUB: TX10470	04215			
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil		
Chloride		16887-00-6	4490	46.9	mg/kg	05.26.17 02.2	29	5		



# LABORATORIES

# **Flagging Criteria**



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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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1211 W Florida Ave, Midland, TX 79701 2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(432) 563-1800 (602) 437-0330	(432) 563-171

Final 1.000



QC Summary 553603

# COG Operating LLC

Analytical Method:	Inorganic Anions b	y EPA 300/				Prep Method: SW9056P						
Seq Number:	3018295		]	Matrix:	Solid				Date Pre	p: 05.2	5.17	
MB Sample Id:	725242-1-BLK		LCS San	nple Id:	725242-1-	BKS		LCSI	O Sample	Id: 7252	242-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<1.00	10.0	10.5	105	10.4	104	80-120	1	20	mg/kg	05.25.17 21:57	

Analytical Method:	Inorganic A	ganic Anions by EPA 300/300.1									Prep Method: SW9056P			
Seq Number:	3018295			I	Matrix:	Solid				Date Prep	p: 05.25	5.17		
Parent Sample Id:	553595-001			MS San	ple Id:	553595-00	1 S		MSE	Sample	Id: 5535	95-001 SD		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Chloride		565000	50000	615000	100	616000	102	80-120	0	20	mg/kg	05.25.17 22:26		

Analytical Method:	Inorganic Anions l	ganic Anions by EPA 300/300.1								Prep Method: E300P			
Seq Number:	3018295			Matrix:	Soil				Date Pre	ep: 05.2	5.17		
Parent Sample Id:	553603-010		MS Sar	nple Id:	553603-01	10 S		MSI	O Sample	e Id: 553	503-010 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Chloride	333	99.8	429	96	430	97	80-120	0	20	mg/kg	05.26.17 00:46		

Analytical Method: Seq Number: MB Sample Id:	od	LCS San	Prep Method: TX1005P Date Prep: 05.24.17 LCSD Sample Id: 725165-1-BSD										
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hy	drocarbons	<15.0	1000	1110	111	1050	105	70-135	6	35	mg/kg	05.24.17 13:11	
C10-C28 Diesel Range Hyd	rocarbons	<15.0	1000	1150	115	1060	106	70-135	8	35	mg/kg	05.24.17 13:11	
Surrogate		MB %Rec	MB Flag	L( %)	CS Rec	LCS Flag	LCSI %Ree	) LCS c Flag	D Li g	mits	Units	Analysis Date	
1-Chlorooctane		114		1	16		101		70	-135	%	05.24.17 13:11	
o-Terphenyl		117		1	13		102		70	-135	%	05.24.17 13:11	



# **COG Operating LLC**

Birdseye 32 St #1H

Analytical Method:	TPH By SV	W8015 M	lod						Prep Method: TX1005P				
Seq Number:	3018186			Matrix: Soil						Date Pr	rep: 05.2	4.17	
Parent Sample Id:	nt Sample Id: 553603-003			MS Sample Id: 553603-003 S			MSD Sample Id: 553603-003 SD						
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hy	drocarbons	<15.0	998	963	96	931	93	70-135	3	35	mg/kg	05.24.17 14:54	
C10-C28 Diesel Range Hyd	rocarbons	<15.0	998	998	100	979	98	70-135	2	35	mg/kg	05.24.17 14:54	
Surrogate				N %	AS Rec	MS Flag	MSD %Ree	o MSI c Flag	) Li g	mits	Units	Analysis Date	
1-Chlorooctane				-	78		96		70	-135	%	05.24.17 14:54	
o-Terphenyl				85			92		70	-135	%	05.24.17 14:54	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3018068 725094-1-BLK	IB	LCS San	Matrix: nple Id:	Solid 725094-1-	BKS		P1 LCS	rep Meth Date Pr D Sample	od: SW3 rep: 05.2 e Id: 7250	5030B 3.17 )94-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.101	101	0.0973	97	70-130	4	35	mg/kg	05.23.17 07:21	
Toluene	< 0.00199	0.0996	0.0945	95	0.108	108	70-130	13	35	mg/kg	05.23.17 07:21	
Ethylbenzene	< 0.00199	0.0996	0.102	102	0.115	115	71-129	12	35	mg/kg	05.23.17 07:21	
m,p-Xylenes	< 0.00398	0.199	0.206	104	0.211	106	70-135	2	35	mg/kg	05.23.17 07:21	
o-Xylene	< 0.00199	0.0996	0.100	100	0.0910	91	71-133	9	35	mg/kg	05.23.17 07:21	
Surrogate	MB %Rec	MB Flag	L( %)	CS Rec	LCS Flag	LCSI %Re	) LCS c Flag	D Li g	imits	Units	Analysis Date	
1,4-Difluorobenzene	111		8	32		96		80	)-120	%	05.23.17 07:21	
4-Bromofluorobenzene	116		1	07		105		80	0-120	%	05.23.17 07:21	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3018240 725152-1-BLK	B	] LCS San	Matrix: ple Id:	Solid 725152-1-	-BKS		Pr LCS	ep Metho Date Pro D Sample	od: SW5 ep: 05.2 e Id: 7251	5030B 4.17 152-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0829	83	0.0836	83	70-130	1	35	mg/kg	05.24.17 07:03	
Toluene	< 0.00200	0.100	0.0955	96	0.0881	87	70-130	8	35	mg/kg	05.24.17 07:03	
Ethylbenzene	< 0.00200	0.100	0.0916	92	0.0974	96	71-129	6	35	mg/kg	05.24.17 07:03	
m,p-Xylenes	< 0.00400	0.200	0.190	95	0.190	95	70-135	0	35	mg/kg	05.24.17 07:03	
o-Xylene	< 0.00200	0.100	0.0934	93	0.0953	94	71-133	2	35	mg/kg	05.24.17 07:03	
Surrogate	MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSD %Rec	LCS Flag	D Li g	imits	Units	Analysis Date	
1,4-Difluorobenzene	95		1	17		92		80	)-120	%	05.24.17 07:03	
4-Bromofluorobenzene	86		1	10		115		80	-120	%	05.24.17 07:03	

.



# **COG Operating LLC**

Birdseye 32 St #1H

Analytical Method:	BTEX by EPA 8021B

Analytical Method: Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3018068 553455-001	1B	MS Sam	Matrix: ple Id:	Soil 553455-00	)1 S		Pr MSI	ep Metho Date Pre D Sample	d: SW5 p: 05.2 Id: 5534	6030B 3.17 455-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00358	0.179	0.135	75	0.133	75	70-130	1	35	mg/kg	05.23.17 07:54	
Toluene	< 0.00358	0.179	0.137	77	0.135	76	70-130	1	35	mg/kg	05.23.17 07:54	
Ethylbenzene	< 0.00358	0.179	0.164	92	0.138	78	71-129	17	35	mg/kg	05.23.17 07:54	
m,p-Xylenes	< 0.00717	0.358	0.331	92	0.254	72	70-135	26	35	mg/kg	05.23.17 07:54	
o-Xylene	< 0.00358	0.179	0.168	94	0.127	72	71-133	28	35	mg/kg	05.23.17 07:54	
Surrogate			M %I	IS Rec	MS Flag	MSD %Rec	MSI Flag	) Li g	mits	Units	Analysis Date	
1,4-Difluorobenzene			11	10		116		80	-120	%	05.23.17 07:54	
4-Bromofluorobenzene			10	)7		118		80	-120	%	05.23.17 07:54	

<b>Analytical Method:</b>	BTEX by EPA 802	1B						Pı	ep Meth	od: SW:	5030B	
Seq Number:	3018240		]	Matrix:	Soil				Date Pr	rep: 05.2	4.17	
Parent Sample Id:	553690-003		MS San	nple Id:	553690-00	03 S		MS	D Sample	e Id: 553	590-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0748	74	0.0731	73	70-130	2	35	mg/kg	05.24.17 07:36	
Toluene	< 0.00202	0.101	0.0790	78	0.0716	72	70-130	10	35	mg/kg	05.24.17 07:36	
Ethylbenzene	< 0.00202	0.101	0.0837	83	0.0716	72	71-129	16	35	mg/kg	05.24.17 07:36	
m,p-Xylenes	< 0.00403	0.202	0.168	83	0.147	73	70-135	13	35	mg/kg	05.24.17 07:36	
o-Xylene	< 0.00202	0.101	0.0785	78	0.0738	74	71-133	6	35	mg/kg	05.24.17 07:36	
Surrogate			N %]	IS Rec	MS Flag	MSD %Rec	MSI c Flag	) Li g	imits	Units	Analysis Date	
1,4-Difluorobenzene			1	20		114		80	-120	%	05.24.17 07:36	
4-Bromofluorobenzene			1	16		120		80	-120	%	05.24.17 07:36	

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# Stafford, Texas (281-240-4200) Setting the Standard since 1990 ABORATORIES

Dallas Texas (214-902-0300)

# CHAIN OF CUSTODY

Midland, Texas (432-704-5251) San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Xenco Quote #

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Image: Construction of the second s
Xenco Jobs #     Xenco Jobs #       Analytical Information

#### Received by OCD: 12/16/2022 10:45:00 AM

Stafford, Texas (281-240-4200)
AT D R IE C

# THAIN OF CUSTODY

Midland, Texas (432-704-5251) San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

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vouce, signature or es or expenses incu Il be enforced unles	nquished by:	inquished By:	inquished by San	TAT Starts Da	3 Day EMERGE	2 Day EMERGE	Next Day EMER	Same Day TAT	Turnaround

	www.xenco.com	Xenco Quote #	Xenco Job # SNRION	7
				C
Client / Reporting Information	Project Information			Matrix Codes
COG Operating LLC	Project Name/Number: Birdseve 32 St.#1H			= Water
Company Address: 2407 PECOS Avenue Artesia NM 88210	Project Location:			= Soil/Sed/Solid N =Ground Water
Email: Phone No: 575-748-15	Birdseye 32 St.#1H			N = Drinking Water = Product
alieb@concho.com dneel2@concho.com rhaskell@concho.com	Attn: Robert Mcneill		SI S	V = Surface water
Project Contact: Aaron Lieb	Midland TX 79701			N =Ocean/Sea Water
Samplers's Name- Aaron Lieb	PO Number:		0 \$	= Oil
	Collection Number of p	preserved bottles		W= Waste Water = Air
No. Field ID / Point of Collection	Zn	4 ( ide		
	ample # of # of Hottles HCI NaOH/Z	H2SO4 NaOH NaHSO4 MEOH NONE TPH BTEX Chlori	1	
1 1 1 1 6	1 2 00:51 [1] 3	×		
2 1 - 18	3. 12:00 1 1			
4 1 8 3007 5	12:15ph (	×××		
° 12 - 9				
10				
Turnaround Time ( Business days)	Data Deliverable Information		Notes:	
Same Day TAT 5 Day TAT	Level II Std QC	Level IV (Full Data Pkg /raw data)		
Next Day EMERGENCY	Level III Std QC+ Forms	TRRP Level IV		
2 Day EMERGENCY	Level 3 (CLP Forms)	UST / RG -411		
3 Day EMERGENCY	TRRP Checklist			
SAMPLE CUSTODY MUS			FED-EX / UPS: Tracking #	
Relinquished by Sampler: Dat	Time: Received By, 1/122A Re	SION, INCLUDING COURIER DELIVERY		
Relinquighed by:	all 11:00 1 Sid Suttle 5-19-17 2		Received By:	
3 Relinquished by:	3 J J J J J J J J J J J J J J J J J J J	telinquished By: Date Time:		IR ID:R-8
5 Notice: Notice: Signature of this document and relinquishment of samples constitutes	valid purchase order from client company to Yonce in order and the	ustody Seal # Preserved where a	applicable <u>On Jee</u> (6-23: +0.2	2°C)
terms will be enforced unless previously negotiated under a fully executed client contra- terms will be enforced unless previously negotiated under a fully executed client contra	eyond the control of Xenco. A minimum charge of \$75 will be applied to each .ct.	h project. Xenco's liability will be limited to the cost of san	nvice. Xenco will be liable only for the Corrected Ten mples. Any samples received by Xer	np: 3,2,

Dallas Texas (214-902-0300)



Date/Time: 05/22/17 08:43

Houston

Lab# From: Midland

Lab# To:

.

Date Printed: Tue May-23-17 11:12 am Page 1 of 2

Please send report to: Liz Givens

Address: 1211 W. Florida Ave, Midland TX 79701 Phone:

E-Mail: liz.givens@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
553603-001	S	T1-Surface	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-002	S	T1-1'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-003	S	T1-2'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-004	S	T1-3'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-005	S	T1-4'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-006	S	T1-6'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-007	S	T1-8'	05/16/17 11:45	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-008	S	T1-10'	05/16/17 11:45	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-009	S	T1-12'	05/16/17 11:45	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-010	S	T1-14'	05/16/17 11:45	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-011	S	T1-16'	05/16/17 12:00	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-012	S	T1-18'	05/16/17 12:00	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-013	S	T2-Surface	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-014	S	T2-1'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-015	S	T2-2'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-016	S	T2-3'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-017	S	T2-4'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-018	s	T2-9'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	

Inter Office Shipment or Sample Comments:

arita thaya

Relinquished By:

Marithza Anaya

Created by: Jessica Kramer

Air Bill No.: 779201410522

Delivery Priority: Fedex

Date Relinquished: 05/22/2017

Received By:

Mitsuko Konuma

Date Received: 05/23/2017 09:15



.

Date Printed: Tue May-23-17 11:12 am Page 2 of 2

Cooler Temperature: <u>1.0</u>



LABORATORIES

# **XENCO** Laboratories



# Inter Office Report- Sample Receipt Checklist

Sent To: Houston IOS #: 1044016

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used :

Sent By:	Jessica Kramer	Date Sent:	05/22/2017 08:43 AM
Received By:	Mitsuko Konuma	Date Received:	05/23/2017 09:15 AM

#### Sample Receipt Checklist

Comments

#1 *Temperature of ecolor(a)?	1
#1 Temperature of cooler(s)?	I
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	N/A
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	No
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

**Corrective Action Taken:** 

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by:

Mitsuko Konuma

Date: 05/23/2017

BORATORIES





#### Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/20/2017 10:30:00 AM Temperature Measuring device used : R8 Work Order #: 553603 Sample Receipt Checklist #1 \*Temperature of cooler(s)? 3.2 #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seal present on shipping container/ cooler? N/A #5 \*Custody Seals intact on shipping container/ cooler? N/A #6 Custody Seals intact on sample bottles? N/A

#7 *Custody Seals Signed and dated?	N/A	
#8 *Chain of Custody present?	Yes	
#9 Sample instructions complete on Chain of Custody?	Yes	
#10 Any missing/extra samples?	No	
#11 Chain of Custody signed when relinquished/ received?	Yes	
#12 Chain of Custody agrees with sample label(s)?	Yes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with Chain of Custody?	Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated test(s)?	Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	Yes	Houston
#21 VOC samples have zero headspace?	N/A	

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 05/22/2017

Comments

Checklist completed by: Jessica Veamer Jessica Kramer Checklist reviewed by: Jessica Kramer Liz Givens

Date: 05/22/2017

Released to Imaging: 2/7/2023 2:17:12 PM



Aaron Lieb

Birdseye 32 St #1H

**Project Id:** 

**Project Location:** 

**Contact:** 

Certificate of Analysis Summary 553604

COG Operating LLC, Artesia, NM Project Name: Birdseye 32 St #1H



Date Received in Lab:Sat May-20-17 10:30 amReport Date:26-MAY-17Project Manager:Liz Givens

	Lab Id:	553604-0	01	553604-0	02	553604-003		553604-004		553604-005		553604-006		
Analysis Requested	Field Id:	North-Surf	North-Surface		North-1'		Sotuh-Surface		South-1'		East-Surface		East-1'	
	Depth:			1 ft				1 ft				1 ft		
	Matrix:	SOIL		SOIL		SOIL S		SOIL		SOIL		SOIL		
	Sampled:	May-16-17 11:00		May-16-17 11:00		May-16-17 11:00 N		May-16-17	11:00	May-16-17	11:15	May-16-17	11:15	
Inorganic Anions by EPA 300/300.1 <i>Extracted:</i>		May-26-17 02:27		May-26-17 02:27		May-26-17 02:27		May-26-17 02:27		May-26-17 02:27		May-26-17 02:27		
SUB: TX104704215	Analyzed:	May-26-17 05:54		May-26-17 06:41		May-26-17 06:50		May-26-17 07:00		May-26-17 07:09		May-26-17 07:18		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		23.9	9.77	<9.63	9.63	<9.69	9.69	117	9.92	99.6	9.98	<9.90	9.90	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brand Rotinson

Brandi Ritcherson Project Manager



Project Id:Contact:Aaron LiebProject Location:Birdseye 32 St #1H

Certificate of Analysis Summary 553604

COG Operating LLC, Artesia, NM Project Name: Birdseye 32 St #1H



Date Received in Lab:Sat May-20-17 10:30 amReport Date:26-MAY-17Project Manager:Liz Givens

Analysis Requested	Lab Id:	553604-0	07	553604-0	008		
	Field Id:	West-Surf	ace	West-1	1		
	Depth:			1 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	May-16-17 11:15		May-16-17 11:15			
Inorganic Anions by EPA 300/300.1	Extracted:	: May-26-17 02:27		May-26-17	02:27		
SUB: TX104704215	Analyzed:	May-26-17 07:28		May-26-17 07:37			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		65.0	9.90	25.1	9.90		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brand Rotinson

Brandi Ritcherson Project Manager

Page 2 of 20

for COG Operating LLC

**Project Manager: Aaron Lieb** 

Birdseye 32 St #1H

### 26-MAY-17

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





26-MAY-17

Project Manager: **Aaron Lieb COG Operating LLC** 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): **553604 Birdseye 32 St #1H** Project Address: Birdseye 32 St #1H

#### Aaron Lieb:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 553604. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 553604 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

mand

Brandi Ritcherson Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



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# Sample Cross Reference 553604



# COG Operating LLC, Artesia, NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North-Surface	S	05-16-17 11:00	N/A	553604-001
North-1'	S	05-16-17 11:00	- 1 ft	553604-002
Sotuh-Surface	S	05-16-17 11:00	N/A	553604-003
South-1'	S	05-16-17 11:00	- 1 ft	553604-004
East-Surface	S	05-16-17 11:15	N/A	553604-005
East-1'	S	05-16-17 11:15	- 1 ft	553604-006
West-Surface	S	05-16-17 11:15	N/A	553604-007
West-1'	S	05-16-17 11:15	- 1 ft	553604-008



Page 71 of 141

Client Name: COG Operating LLC Project Name: Birdseye 32 St #1H

Project ID: Work Order Number(s): 553604 
 Report Date:
 26-MAY-17

 Date Received:
 05/20/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





## COG Operating LLC, Artesia, NM

Sample Id:	North-Surface		Matrix:	Soil	Ι	Date Received:05	.20.17 10.30	C
Lab Sample Ic	l: 553604-001		Date Collec	cted: 05.16.17 11.00				
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			I	Prep Method: E3	00P	
Tech:	DHE				ç	% Moisture:		
Analyst:	DHE		Date Prep:	05.26.17 02.27	I	Basis: We	et Weight	
Seq Number:	3018297				S	SUB: TX1047042	215	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	23.9	9.77	mg/kg	05.26.17 05.54		1




## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>North-1'</b> 1: 553604-002			Date Received:05.20.17 10.30 Sample Depth: 1 ft					
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method: E	E300P		
Tech:	DHE					% Moisture:			
Analyst:	DHE		Date Prep:	05.26.17 02.27		Basis: W	Wet Weight		
Seq Number:	3018297					SUB: TX104704	4215		
Parameter		Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil	
Chloride		16887-00-6	<9.63	9.63	mg/kg	05.26.17 06.41	U U	1	





#### COG Operating LLC, Artesia, NM

Birdseye 32 St #1H

Sample Id:	Sotuh-Surface		Matrix:	Soil	Ι	Date Received:05.	20.17 10.30	)
Lab Sample Id	1: 553604-003		Date Collec	cted: 05.16.17 11.00				
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			Ι	Prep Method: E30	00P	
Tech:	DHE				9	% Moisture:		
Analyst:	DHE		Date Prep:	05.26.17 02.27	I	Basis: We	et Weight	
Seq Number:	3018297				S	SUB: TX1047042	15	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<9.69	9.69	mg/kg	05.26.17 06.50	U	1

**Released to Imaging: 2/7/2023 2:17:12 PM** 





## COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>South-1'</b> 1: 553604-004		Matrix: Date Collec	Soil cted: 05.16.17 11.00		Date Received: Sample Depth:	05.20.17 10.3 1 ft	0
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Analyst:	DHE		Date Prep:	05.26.17 02.27		Basis:	Wet Weight	
Seq Number:	3018297					SUB: TX10470	04215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride		16887-00-6	117	9.92	mg/kg	05.26.17 07.0	00	1





#### COG Operating LLC, Artesia, NM

Sample Id:	East-Surface		Matrix:	Soil	Ι	Date Received:05	5.20.17 10.3	0	
Lab Sample Ic	l: 553604-005		Date Collected: 05.16.17 11.15						
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			I				
Tech:	DHE				ç	% Moisture:			
Analyst:	DHE		Date Prep:	05.26.17 02.27	I	Basis: W	et Weight		
Seq Number:	3018297				S	SUB: TX104704	215		
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	99.6	9.98	mg/kg	05.26.17 07.09		1	



ABORATORIES

# **Certificate of Analytical Results 553604**



### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>East-1'</b> l: 553604-006		Matrix: Date Colled	Soil cted: 05.16.17 11.15		Date Received:05.20.17 10.30 Sample Depth: 1 ft				
Analytical Me Tech:	ethod: Inorganic Anions DHE				E300P					
Analyst: Seq Number:	DHE 3018297		Date Prep:	05.26.17 02.27		Basis: V SUB: TX104704	Wet Weight 4215			
Parameter		Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil		
Chloride		16887-00-6	<9.90	9.90	mg/kg	05.26.17 07.18	8 U	1		





#### COG Operating LLC, Artesia, NM

Sample Id:	West-Surface		Matrix:	Soil	]	Date Received:	05.20.17 10.3	0
Lab Sample Id	l: 553604-007		Date Collec					
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			]	Prep Method:	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.26.17 02.27	i	Basis:	Wet Weight	
Seq Number:	3018297				:	SUB: TX10470	4215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride		16887-00-6	65.0	9.90	mg/kg	05.26.17 07.2	8	1





## COG Operating LLC, Artesia, NM

Birdseye 32 St #1H

Sample Id: Lab Sample Id	<b>West-1'</b> l: 553604-008		Matrix: Date Collec	Soil cted: 05.16.17 11.15		Date Received: Sample Depth: 1	)5.20.17 10.30 I ft	0
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method: 1	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.26.17 02.27		Basis:	Wet Weight	
Seq Number:	3018297					SUB: TX10470	4215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride		16887-00-6	25.1	9.90	mg/kg	05.26.17 07.3	7	1

**Released to Imaging: 2/7/2023 2:17:12 PM** 



# LABORATORIES

# **Flagging Criteria**



Page 80 of 141

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Certified and approved by numerous States and Agencies.

#### A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Dhone

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	THOILE	Гал
4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	

Final 1.000





QC Summary 553604

# **COG Operating LLC**

Birdseye 32 St #1H

Analytical Method:	Inorganic Anions b	y EPA 300/	300.1					Pr	ep Metho	d: E300	)P	
Seq Number:	3018297		]	Matrix:	Solid Date Prep: 05.26.17				6.17			
MB Sample Id:	725243-1-BLK		LCS San	nple Id:	725243-1-	BKS		LCSI	O Sample	Id: 7252	243-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<1.00	10.0	10.4	104	10.4	104	80-120	0	20	mg/kg	05.26.17 03:06	

Analytical Method:	Inorganic A	nions by	y EPA 300/3	00.1					Pro	ep Metho	1: E30	)P	
Seq Number:	3018297			]	Matrix:	Soil				Date Prep	p: 05.2	6.17	
Parent Sample Id:	553604-001			MS San	nple Id:	553604-00	01 S		MSE	Sample	Id: 5536	604-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		23.9	97.7	126	105	127	106	80-120	1	20	mg/kg	05.26.17 06:04	

Analytical Method:	Inorganic A	nions by	7 EPA 300/3	300.1					Pr	ep Metho	d: E30	0P	
Seq Number:	3018297			]	Matrix:	Soil				Date Pre	ep: 05.2	6.17	
Parent Sample Id:	553606-001			MS San	nple Id:	553606-00	01 S		MSI	O Sample	Id: 553	606-001 SD	
Parameter	1	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<9.60	96.0	105	109	104	108	80-120	1	20	mg/kg	05.26.17 04:11	

.

# CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)



Date/Time: 05/22/17 08:44

Houston

Lab# From: Midland

Lab# To:

.

Date Printed: Tue May-23-17 11:13 am Page 1 of 1

Please send report to: Liz Givens

Address: 1211 W. Florida Ave, Midland TX 79701 Phone:

E-Mail: liz.givens@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	d Method Name		HT Due	PM	Analytes	Sign
553604-001	S	North-Surface	05/16/17 11:00	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553604-002	S	North-1'	05/16/17 11:00	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553604-003	S	Sotuh-Surface	05/16/17 11:00	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553604-004	S	South-1'	05/16/17 11:00	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553604-005	S	East-Surface	05/16/17 11:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553604-006	S	East-1'	05/16/17 11:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553604-007	S	West-Surface	05/16/17 11:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553604-008	S	West-1'	05/16/17 11:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	

Inter Office Shipment or Sample Comments:

marita thaya

Created by: Jessica Kramer

Air Bill No.: 779201410522

Delivery Priority: Fedex

Relinquished By:

Marithza Anaya

Date Relinquished: 05/22/2017

Received By:

Mitsuko Konuma

Date Received: 05/23/2017 09:15

Cooler Temperature: <u>1.0</u>



LABORATORIES

# **XENCO** Laboratories



#### Inter Office Report- Sample Receipt Checklist

**Sent To:** Houston **IOS #:** 1044017

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used :

Sent By:	Jessica Kramer	Date Sent:	05/22/2017 08:44 AM
Received By:	Mitsuko Konuma	Date Received:	05/23/2017 09:15 AM

#### Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	N/A
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	No
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

**Corrective Action Taken:** 

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by:

13 = 1
--------

Mitsuko Konuma

Date: 05/23/2017

Received by OCD: 12/16/2022 10:45:00 AM

BORATORIES





#### Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC Acceptable Temperature Range: 0 - 6 degC Date/ Time Received: 05/20/2017 10:30:00 AM Work Order #: 553604

Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : R8 Comments Sample Receipt Checklist

#1 *Temperature of cooler(s)?	3.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seal present on shipping container/ cooler?	N/A	
#5 *Custody Seals intact on shipping container/ cooler?	N/A	
#6 Custody Seals intact on sample bottles?	N/A	
#7 *Custody Seals Signed and dated?	N/A	
#8 *Chain of Custody present?	Yes	
#9 Sample instructions complete on Chain of Custody?	Yes	
#10 Any missing/extra samples?	No	
#11 Chain of Custody signed when relinquished/ received?	Yes	
#12 Chain of Custody agrees with sample label(s)?	Yes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with Chain of Custody?	Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated test(s)?	Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	Yes	Houston
#21 VOC samples have zero headspace?	N/A	

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 05/22/2017

Checklist completed by: Jessica Kramer Checklist reviewed by: Liz Givens

Date: 05/22/2017

Released to Imaging: 2/7/2023 2:17:12 PM



Eddy Co, NM

Project Id: Contact: Thomas Franklin

**Project Location:** 

Certificate of Analysis Summary 566852

American Safety Services, Odessa, TX Project Name: COG Birdseye 32 State #001 H



Date Received in Lab:Mon Oct-30-17 08:38 amReport Date:08-NOV-17Project Manager:Brandi Ritcherson

	Lab Id:	566852-001		566852-002		566852-003		566852-004		566852-005		
Analysis Requested	Field Id:	Trench 2	(A)	Trench 2	(A)	Trench 2	(A)	Trench 2	(A)	Trench 2	(A)	
	Depth:	5- In		6- In		7- In		8- In		9- In		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Oct-27-17	Oct-27-17 09:00		Oct-27-17 09:02 Oct-27-17 09:04		Oct-27-17 09:06		Oct-27-17 09:08			
Chloride by EPA 300	Extracted:	Nov-06-17	Nov-06-17 16:00		Nov-06-17 16:00		Nov-06-17 16:00		16:00	Nov-06-17 16:00		
	Analyzed:	Nov-06-17 20:43		Nov-06-17 21:10		Nov-06-17 21:19		Nov-06-17 21:28		Nov-06-17	21:36	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	
Chloride		376.16	4.9900	1010.7	4.9603	308.62	4.9310	203.22	4.9801	364.88	4.9020	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Brand Rotinson

Brandi Ritcherson Project Manager

# Analytical Report 566852

for American Safety Services

Project Manager: Thomas Franklin COG Birdseye 32 State #001 H

#### 08-NOV-17

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Received by OCD: 12/16/2022 10:45:00 AM



08-NOV-17

Project Manager: **Thomas Franklin American Safety Services** 8715 Andrews Hwy Odessa, TX 79765

Reference: XENCO Report No(s): 566852 COG Birdseye 32 State #001 H Project Address: Eddy Co, NM

#### Thomas Franklin:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 566852. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 566852 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

mand

Brandi Ritcherson Project Manager

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#### Sample Id

Trench 2 (A)	
Trench 2 (A)	

# Sample Cross Reference 566852



#### American Safety Services, Odessa, TX

COG Birdseye 32 State #001 H

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	10-27-17 09:00	5 In	566852-001
S	10-27-17 09:02	6 In	566852-002
S	10-27-17 09:04	7 In	566852-003
S	10-27-17 09:06	8 In	566852-004
S	10-27-17 09:08	9 In	566852-005
S	10-27-17 09:10	10 In	Not Analyzed
S	10-27-17 09:12	11 In	Not Analyzed
S	10-27-17 09:14	12 In	Not Analyzed
S	10-27-17 09:16	13 In	Not Analyzed
S	10-27-17 09:18	14 In	Not Analyzed
S	10-27-17 09:20	15 In	Not Analyzed

Version: 1.%

.



# CASE NARRATIVE

Client Name: American Safety Services Project Name: COG Birdseye 32 State #001 H

Project ID: Work Order Number(s): 566852 
 Report Date:
 08-NOV-17

 Date Received:
 10/30/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





## American Safety Services, Odessa, TX

COG Birdseye 32 State #001 H

Sample Id:	Trench 2 (A)		Matrix:	Soil		Date Received	l:10.30	.17 08.38	
Lab Sample Id: 566852-001			Date Collec	ted: 10.27.17 09.00	Sample Depth: 5 In				
Analytical Me	thod: Chloride by EPA 30	00				Prep Method:	E3001	Р	
Analyst	MNV		Date Pren	11.06.17.16.00		% Moisture: Basis:	Wet V	Veight	
Seq Number:	3032576		Date Trep.	11.00.17 10.00		2 40101		, erBitt	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil

16887-00-6 **376.16** 

4.9900

mg/L 11.06.17 20.43

1





1

## American Safety Services, Odessa, TX

COG Birdseye 32 State #001 H

Sample Id:	Trench 2 (A)		Matrix:	Soil		Date Received	1:10.30	0.17 08.38	
Lab Sample Id	: 566852-002		Date Collected: 10.27.17 09.02			Sample Depth: 6 In			
Analytical Me	thod: Chloride by EPA 30	00				Prep Method:	E300	P	
Tech:	MNV					% Moisture:			
Analyst:	MNV		Date Prep:	11.06.17 16.00		Basis:	Wet V	Weight	
Seq Number:	3032576								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil

16887-00-6 **1010.7** 

4.9603

mg/L

11.06.17 21.10





1

## American Safety Services, Odessa, TX

COG Birdseye 32 State #001 H

Sample Id:	Trench 2 (A)		Matrix:	Soil		Date Received	1:10.3	0.17 08.38	
Lab Sample Id: 566852-003			Date Collec	ted: 10.27.17 09.04	Sample Depth: 7 In				
Analytical Me	thod: Chloride by EPA 30	00				Prep Method:	E300	)P	
Tech:	MNV					% Moisture:			
Analyst:	MNV		Date Prep:	11.06.17 16.00		Basis:	Wet	Weight	
Seq Number:	3032576								
Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil

Chloride

16887-00-6 **308.62** 

4.9310

9310

11.06.17 21.19

mg/L

Released to Imaging: 2/7/2023 2:17:12 PM





1

## American Safety Services, Odessa, TX

COG Birdseye 32 State #001 H

Sample Id:	Trench 2 (A)		Matrix:	Soil		Date Received	1:10.30	.17 08.38	
Lab Sample Id	: 566852-004		Date Collect	ed: 10.27.17 09.06		Sample Depth	:8 In		
Analytical Me	thod: Chloride by EPA 30	00				Prep Method: % Moisture:	E3001	Р	
Analyst:	MNV		Date Prep:	11.06.17 16.00		Basis:	Wet W	Weight	
Seq Number:	3032576								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil

Chloride

16887-00-6 203.22

4.9801

11.06.17 21.28

mg/L

Released to Imaging: 2/7/2023 2:17:12 PM





1

## American Safety Services, Odessa, TX

COG Birdseye 32 State #001 H

Sample Id: Trench 2 (A)		Matrix:	Soil		Date Received	1:10.30.1	7 08.38
Lab Sample Id: 566852-005		Date Collecte	ed: 10.27.17 09.08		Sample Depth	:9 In	
Analytical Method:Chloride by EPA 3Tech:MNVAnalyst:MNVSeq Number:3032576	300	Date Prep:	11.06.17 16.00		Prep Method: % Moisture: Basis:	E300P Wet We	aight
Parameter	Cas Number	Result I	RL	Units	Analysis D	ate F	lag Dil

Chloride

16887-00-6 364.88

4.9020

11.06.17 21.36

mg/L



# LABORATORIES

# **Flagging Criteria**



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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

#### Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

#### A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

	Phone	Fax
4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	

Final 1.000





#### **American Safety Services** COG Birdseye 32 State #001 H

Analytical Method: Chloride by EPA 300 Prep Method: E300P Seq Number: 3032576 Matrix: Solid Date Prep: 11.06.17 LCS Sample Id: 7633898-1-BKS LCSD Sample Id: 7633898-1-BSD MB Sample Id: 7633898-1-BLK RPD LCS LCS %RPD MB Spike LCSD LCSD Limits Units Analysis Flag Parameter Result Result %Rec Limit Date Amount Result %Rec Chloride < 5.0000 250.00 234.38 94 234.63 94 90-110 0 20 11.06.17 19:33 mg/L

Analytical Method:	Chloride by	EPA 30	0						Pr	ep Metho	od: E300	)P	
Seq Number:	3032576				Matrix:	Soil				Date Pre	ep: 11.0	6.17	
Parent Sample Id:	566621-039			MS San	nple Id:	566621-03	89 S		MSI	O Sample	Id: 5666	521-039 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		347.14	249.00	598.72	101	599.70	101	90-110	0	20	mg/L	11.07.17 20:29	

Analytical Method:	Chloride by	EPA 30	0						Pr	ep Metho	od: E300	)P	
Seq Number:	3032576				Matrix:	Soil				Date Pre	ep: 11.0	6.17	
Parent Sample Id:	566853-002			MS San	nple Id:	566853-00	02 S		MSI	O Sample	Id: 5668	353-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		25.482	246.00	247.56	90	248.42	91	90-110	0	20	mg/L	11.07.17 21:13	

		m	-								5 P				1 2		Q						
	0	<b>U</b> u		<b>0</b>			RATORIES	RATORIES	DRATORIES	<b>TANCO</b> BORATORIES	BORATORIES	A B D R AT D R I E S	ABURATURIES	LABORATORIES	ABORATORIES Standard since 1990	LABORATORIES	LABORATORIES	g the Standard since 1990	LABORATORIES	LABORATORIES	LABOR AT ORIES	LABORATORIES	Setting the Standard since 1990
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	AT DR IE	AT DRI						. 🛥 🖃	a 🗆		dard				Standard	he Standard	the Standard	g the Standard	ng the Standard	LAB DI	LABE the Standard	Setting the Standard	Setting the Standard

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Received by O	CD:	12/10	5/202	22	10	):45	:00	AM	-		
<u>× 0</u> 20	- CT	ω	-								Γ

If Chloride exceeds 600 mg/kg run deeper samples on hold

Client / Regording information         Prove the Structure (24 - 02 - 030)         Same (24 - 02 - 030) </th <th><math display="block"> \begin{array}{                                    </math></th> <th>C<b>D:</b> 1</th> <th>12/1</th> <th>6/2</th> <th>202</th> <th>2 1</th> <th>0:</th> <th>45</th> <th>:00</th> <th>Al</th> <th>M</th> <th></th> <th>(0)</th> <th></th> <th>h</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th> ,</th> <th>1</th> <th>Page</th> <th>e 98 of</th>	$ \begin{array}{                                    $	C <b>D:</b> 1	12/1	6/2	202	2 1	0:	45	:00	Al	M															(0)		h						 ,	1	Page	e 98 of
San Antonio, Texas (210-09333)     Phonix, Adia       Indiand, Texas (210-09334)     Invariantician       Invariantician     Invariantician       Invarianti     Invariantician       Invarianti	Page 1 or 2       San Antonin, Texas (210-09-333) Midlund, Texas (210-09-334)     Proper linemation Project Information       Project Information Project Name (CG+ Brinkley Cell)     Nove (43-704-231)       Term Value (43-704-231)       Nove (43-704-231)       Output (5-107-107-107-107-107-107-107-107-107-107	Relinquished by:	3	1 m lun	Relinquished by Sampler:		TAT Starts Day monitod by Lab if the	3 Day EMERGENCY	2 Day EMERGENCY	Next Day EMERGENCY			Turnaround Time (Business days)	10	9	8	7	6	G	4	3	2	1 Trench a (A)	No. Field ID / Point of Collection		Samplers's Name Mille O.C.I	roject Contact: Thomas Franklin	zimmerman@americansafety.net	⊧mail: P franklin@americansafety.net 4:	3715 Andrews Hwy Ddessa Tx 79765	Company Address:	Company Name / Branch: American Safety Services Inc.	Client / Reporting Information		Dallas Texas (214-902-0300)	Stafford, Texas (281-240-4200)	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Page 1 of 2     Phone: Arizon (400-355-0400)       Midland, Texas (210-090-334)     Import Arizon (400-355-0400)       Import Arizon (400-355-0400)     Import Arizon (400-355-0400)       Project Minimute::::::::::::::::::::::::::::::::::::	Date Tir		10/30/	Date Tir	AMPLE CUSTODY MUST E	being by E.M. am		Contract TAT	Day TAT	5 Day IAI		-	14	13	12	11	101	1	181	7'	6.	57	Sampl					hone No: 32-557-9868								
Phoenix, Aria Phoenix, Aria Phoenix, Aria Phoenix, Aria Phoenix, Aria Phoenix, Aria Phoenix, Aria Phoenix, Aria Nanco Quode # Xanco	Phoenix, Arizona (480-355-0900)	ne: Received By:	35:20 05.00 al 1.60 al 1.20 al 2.20 al 1.20 al	117 0830 1 M/ UMU UMU I P.	ne: Received By:	E DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POS		TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms		]	Data Deliverable Informatic	1 C DIAD THEEPON	1 S 01100 S	1 S 4140 S	1 5 L 1	1 S airo 11760	1 S 30 PC 11/12/10/	1 5 0040 5	10/27/17 0904 5 1	1 2 2040 111540	10/27/17 09/00 5 1	Time Matrix bottles HCI NaOH/Zn Acetate	Collection Number		PO Number:	I (AG-ATTO DOLL HAVING)	Invoice Tó:	Eddy 6 NM	Project Location:	Project Name/Number: (Dh- Bind (24) 32 State # 00	Project Information	www.xenco.com	Midland, Texas (432-704-5251)	San Antonio, Texas (210-509-3334)	Page 1 of
	Analytical Information Analytical Information Analytical Information Informatio Informatio	Custody Seal # Preserve	4 Valuation of the second seco	No.	VRelinquished By: Da	SSESSION. INCLUDING COURIER DELIVERY			UST / RG -411	TRRP Level IV	Level IV (Full Data Pkg /raw data)		° - - - -	<i>k</i> .	<i>f</i>	j.	- A	×	×	4.		×.	740	HNO3 H2SO4 NaOH NaHSO4 MEOH NONE Chi Hol	r of preserved bottles	Je						I		Xenco Quote #		Phoenix, Ariz	

Page 99 of 141

# CHAIN OF CUSTODY

.

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

ceived	by OC	CD:	12/	/16/20	22	10:4	5:00	AM	ſ													
	Notice: losses will be	5 Ke	ω	1 7 Re							10	9	8	7	6	5	4	ы	2	-	No.	
	Notice: Signature of this document and relin or expenses incurred by the Client if such lo- enforced unless previously negotiated under	inquisned by:		inquished by Sampler:		3 Day EMERGENCY TAT Starts Day received by L	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Turnaround Time ( Business days						/		/		Trench 2	Field ID / Point of C	

Dallas Texas (214-902-0300)	Midland,	Texas (432-704-5251)				
		www.xenco.com	Xenco Quote	9 #	Xenco Job # Sloce	jas z
				Analvtical Informati	3	Matriv Codes
Client / Reporting Information		Project Information				multiv conco
Company Name / Branch: American Safety Services Inc.	Project Nan	Number:				W = Water
Company Address:	Project Loc	ation:				GW =Ground Water
8715 Andrews Hwy Odessa Tx 79765		Eddy 6 NM				DW = Drinking Water
Email: Phone No:	Invoice To:	-				SW = Surface water
tranklin@americansafety.net 432-557-9868	Par	¢.				SL = Sludge
Project Contact:	(00	c	2			OW =Ocean/Sea Water
Thomas Franklin	PO Number		4			WI = Wipe
Samplers's Name / Calledon Millie Dicit			10			WW= Waste Water
	Collection	Number	of preserved bottles			A = Air
No. Field ID / Point of Collection		'n	1			
	Sample Depth Date	Time Matrix bottles ICI IIaOH/Z ICCETate	I2SO4 IaOH IEOH ONE			
1 Trench 2 (A)	15 10/27/17	0920 5 1	1		2	
2						
3						
4						
5						
6 NFE						
7						
8						
9						
10						
Turnaround Time ( Business days)		Data Deliverable Information	-			
Same Day TAT 5 Day TAT		Level II Std QC	Level IV (Full Data Pkg /raw data)	Tem		D:R-8
Next Day EMERGENCY		Level III Std QC+ Forms	TRRP Level IV	CF:(	(0-6: -0.2°C )	
2 Day EMERGENCY		Level 3 (CLP Forms)	UST / RG -411	)	(6-23: +0.2°C)	
3 Day EMERGENCY		TRRP Checklist				6
TAT Starts Day received by Lab, if received by 5:00	) pm	0		FED-EX / U	PS: Tracking #	
Relinquished by Sampler: SAMPLE CUSTODY	Date Time:	ED BELOW EACH TIME SAMPLES CHANGE POS	SESSION, INCLUDING COURIER DELIVERY	Data Timo.		
1 milling	10/30/17 0630	1 MOUNDER P	Reinquished By:	Date Time:	Received By: 2	
3 3	Date Time:	Received By: W. S. 17 8:38	Relinquished By:	Date Time:	Received By:	
S	Date Time:	Received By: 5	Custody Seal # Pres	erved where applicable	On Ice Cooler	Temp. Thermo. Corr. Factor
vouce: vouce: signature or inis document and relinquisiment of samples constitu- losses or expenses incurred by the Client if such losses are due to circumstances by will be enforced unless previously neoclated under a fully executed client contract	es a valid purchase order eyond the control of Xenc	from client company to Xenco, its affiliates and sub- . A minimum charge of \$75 will be applied to each r	contractors. It assigns standard terms and con project. Xenco's liability will be limited to the co	ditions of service. Xenco will st of samples. Any samples r	be liable only for the cost of samples an eceived by Xenco but not analyzed will	id shall not assume any responsibility for any be invoiced at \$5 per sample. These terms

Received by OCD: 12/16/2022 10:45:00 AM



# **XENCO** Laboratories



#### Prelogin/Nonconformance Report- Sample Log-In

**Client:** American Safety Services Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/30/2017 08:38:00 AM Temperature Measuring device used : R8 Work Order #: 566852 Comments Sample Receipt Checklist 2.6 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6\*Custody Seals Signed and dated? N/A #7 \*Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes

#12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? No #18 Water VOC samples have zero headspace? N/A

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Comment Hernandez

Date: 10/30/2017

Checklist reviewed by: Grand Ritinson

Date: 10/30/2017

.



# APPENDIX D

Initial C-141

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net

APR 2 5 2017

District	
1625 N.	French Dr., Hobbs, NM 88240
District	
811 S F	irst St , Artesia, NM 88210
District	
1000 Rie	Brazos Road, Aztec, NM 87410
District	<u>IV</u>
1220 S.	St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

#### Form C-141 Revised August 8, 2011

Subinit Lopy to appropriate District Office in accordance with 19.15.29 NMAC.

# **Release Notification and Corrective Action**

NAB1711829670		OPERATOR	2	🛛 Initial R	eport	<b>Final Report</b>
Name of Company: COG Operating LLC OC	GRID # 229137	Contact:		Robert McNeill		
Address: 600 West Illinois Avenue, Midland	I TX 79701	Telephone No.		432-683-7443		
Facility Name: Birdseye 32 State #001H	Facility Type:	Flowline				
Surface Owner: Federal	Mineral Owner	: State		API No.	30-015-3829	95

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County						
0	32	195	31E	330	South	2260	East	Eddy						

Latitude 32.6105042 Longitude -103.8901062

NATURE OF RELEASE

Type of Release:		Volume of Release:	Volume Re	covered:						
LC	Dil & Produced Water	1 bbls Oil & 299 bbls PW		<u>0 bbls</u>						
Source of Release:		Date and Hour of Occurrence:	Date and H	lour of Discovery:						
	Flowline	April 24, 2017 2:00 pm	<u> </u>	pril 24, 2017 2:00 pm						
Was Immediate Notice Gi	ven?	If YES, To Whom?								
	Yes No Not Required	Ms. Weaver - NMOCD / Ms	s. Tucker - B	LM / Ms. Groves - SLO						
By \	Whom? Rebecca Haskell	Date and Hour: April 25, 2017 Time of this Email								
Was a Watercourse Reach	ed?	If YES, Volume Impacting the Wat	ercourse.							
	🗌 Yes 🖾 No									
If a Watercourse was Impa	acted, Describe Fully.*									
Describe Course of Deschlar	A D									
Describe Cause of Problem	h and Kemedial Action Taken."									
The release was caused by	a hole in a flowline. The flowline was repaired	l.								
Describe Area Affected an	d Cleanup Action Taken.*									
The selection state in a		· · · · · · · · · · · · · · · · · · ·		- 1						
remediation work plan to t	basture. Concho will have the spill area sampled	to defineate any possible impact from	the release a	nd we will present a						
I hereby certify that the in	formation gives above is true and complete to the	he best of my knowledge and understa	nd that pureu	ant to NMOCD rules and						
regulations all operators a	re-required to report and/or file certain release n	actifications and perform corrective act	tions for miss	sees which may endanger						
public health or the enviro	ament. The acceptance of a C-141 report by the	c NMOCD marked as "Final Report"	does not relie	we the operator of liability						
should their operations ha	ve failed to adequately investigate and remediat	e contamination that pose a threat to g	round water.	surface water, human health						
or the environment. In ad	dition, NMOCD acceptance of a C-141 report d	loes not relieve the operator of response	ibility for co	mpliance with any other						
federal, state, or local laws	s and/or regulations.									
A die	Ok. 101	OIL CONSERV	ATION I	DIVISION						
Signature: Auruna	Token	 }	1 1	,						
Defend Name	D-b	Signed By	11/4 2	Martule						
Printed Name:		Approved by Environmental Specialis	st:							
Title	Service USE Coordinator	A	Contention D	WW KILA						
	Senior HSE Coolulinator	Approval Date: 716611	Expiration L							
E-mail Address:	rhaskell@concho.com	Conditions of Approval:	:							
		0	١	Attached X						
Date: April 25, 2017	Phone: 432-683-7443	Deeattack	iea	•						
* Attach Additional Sheet	s If Necessary			JOD AIDA						
				2KF-710						



# APPENDIX E

Groundwater Data

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net



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

(A CLW##### in the	(R=POD	has beer	n													
POD suffix indicates the	replaced,															
POD has been replaced &	O=orphar	ned,	,													
no longer serves a water	C=the file	e is	(գւ	larte	ers a	re 1	l=NW	/ 2=NE	2 3=SW	4=SE)						
right file.)	closed)		(qı	larte	ers a	ire s	smalle	st to la	argest)	(NAD8	3 UTM in meter	5)	(In feet)			
		POD														
		Sub-		Q	Q	Q								Water		
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Х	Y	DepthWellD	epthWater	Column		
<u>CP 00641 POD1</u>		СР	ED		4	1	36	19 <b>S</b>	31E	610247	3609634* 🌍	300	130	170		
<u>CP 00642 POD1</u>		СР	ED		2	2	25	19S	31E	611025	3611657* 🌍	250				
<u>CP 00722 POD1</u>		СР	LE	4	3	3	28	19S	31E	605106	3610273* 🌍	200				
<u>CP 00722 POD3</u>		СР	LE	2	4	1	33	19 <b>S</b>	31E	605519	3609673* 🌍	220	140	80		
<u>CP 00723 POD1</u>		СР	ED	2	1	1	33	19 <b>S</b>	31E	605111	3610071* 🌍	139				
<u>CP 00725 POD1</u>		СР	ED	1	3	3	28	19S	31E	604906	3610473* 🌍	231				
<u>CP 00829 POD1</u>		СР	LE		2	4	16	19S	31E	606165	3614009* 🌍	120				
<u>CP 00873 POD1</u>		СР	LE		1	1	19	19 <b>S</b>	31E	601772	3613147* 🌍	340	180	160		
<u>CP 01554 POD1</u>		СР	LE	2	2	1	22	19 <b>S</b>	31E	607166	3613354 🌍	400				
<u>CP 01554 POD2</u>		СР	LE	2	2	1	22	19S	31E	607165	3613322 🌍	400				
										1	Average Depth to	o Water:	150	feet		
											Minimu	m Depth:	130	feet		
											Maximu	m Depth:	180	feet		
Record Count: 10																

PLSS Search:

Township: 19S Range: 31E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/9/17 12:44 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# APPENDIX VI





Project Id:

Contact:Aaron LiebProject Location:Birdseye 32 St #1H

Certificate of Analysis Summary 553603

COG Operating LLC, Artesia, NM Project Name: Birdseye 32 St #1H



Date Received in Lab:Sat May-20-17 10:30 amReport Date:31-MAY-17Project Manager:Liz Givens

	Lab Id:	553603-	001	553603-	002	553603-0	003	553603-0	04	553603-005		553603-006	
Analysis Paguested	Field Id:	T1-Surfa	ace	T1-1		T1-2'		T1-3'		T1-4'		T1-6'	
Analysis Kequeslea	Depth:			1 ft	1 ft		2 ft		3 ft			6 ft	
	Matrix:	SOIL		SOIL	SOIL		,	SOIL		SOIL		SOIL	
	Sampled:	May-16-17	May-16-17 11:30		11:30	May-16-17	11:30	May-16-17	11:30	May-16-17	11:30	May-16-17	11:30
BTEX by EPA 8021B	Extracted:	May-24-17	07:30	May-23-17	07:30	May-23-17 07:30							
	Analyzed:	May-24-17	08:58	May-23-17	May-23-17 11:12		May-23-17 10:55						
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		< 0.00364	0.00364	< 0.00345	0.00345	< 0.00348	0.00348						
Toluene		< 0.00364	0.00364	< 0.00345	0.00345	< 0.00348	0.00348						
Ethylbenzene		< 0.00364	0.00364	< 0.00345	0.00345	< 0.00348	0.00348						
m,p-Xylenes		< 0.00727	0.00727	0.167	0.00690	<0.00697	0.00697						
o-Xylene		< 0.00364	0.00364	0.0660	0.00345	< 0.00348	0.00348						
Total Xylenes		< 0.00364	0.00364	0.233	0.00345	< 0.00348	0.00348						
Total BTEX		< 0.00364	0.00364	0.233	0.00345	< 0.00348	0.00348						
Inorganic Anions by EPA 300/300.1	Extracted:	May-25-17	21:48	May-25-17	21:48	May-25-17 21:48		May-25-17 21:48		May-25-17 21:48		May-25-17 21:48	
SUB: TX104704215	Analyzed:	May-25-17	22:54	May-25-17	23:03	May-25-17	23:12	May-25-17 23:40		May-25-17 2	23:50	May-25-17 23:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3120	48.5	1810	9.60	11400	98.8	16000	97.8	11200	95.8	5040	48.3
TPH By SW8015 Mod	Extracted:	May-24-17	11:00	May-24-17	11:00	May-24-17	11:00						
	Analyzed:	May-24-17 13:52		May-24-17	14:12	May-24-17	14:32						
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
C6-C10 Gasoline Range Hydrocarbons		69.0	15.0	89.3	15.0	<15.0	15.0						
C10-C28 Diesel Range Hydrocarbons		425	15.0	626	15.0	<15.0	15.0						
Total TPH		494	15.0	715	15.0	<15.0	15.0						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brand Rotinson

Brandi Ritcherson Project Manager



**Project Id: Contact:** 

Aaron Lieb Birdseye 32 St #1H **Project Location:** 

Certificate of Analysis Summary 553603

COG Operating LLC, Artesia, NM Project Name: Birdseye 32 St #1H



Date Received in Lab: Sat May-20-17 10:30 am Report Date: 31-MAY-17 Project Manager: Liz Givens

	Lab Id:	553603-0	07	553603-008		553603-009		553603-010		553603-011		553603-012	
Analysis Requested	Field Id:	T1-8'	T1-8'		T1-10'		T1-12'			T1-16'		T1-18'	
	Depth:	8 ft	8 ft		10 ft		12 ft		14 ft		16 ft		18 ft
	Matrix:	SOIL		SOIL		SOIL	SOIL			SOIL		SOIL	
	Sampled:	May-16-17	May-16-17 11:45		May-16-17 11:45		May-16-17 11:45		11:45	May-16-17 12:00		May-16-17 12:00	
Inorganic Anions by EPA 300/300.1	Extracted:	May-25-17 21:48		May-25-17 21:48		May-25-17 21:48		May-25-17 21:48		May-25-17 21:48		May-25-17 21:48	
SUB: TX104704215	Analyzed:	May-26-17 (	00:08	May-26-17	00:18	May-26-17	00:27	May-26-17	00:36	May-26-17	01:04	May-26-17	01:33
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6720	48.6	2680	45.5	3170	49.5	333	9.98	94.0	9.94	162	9.82

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing,

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Brand Rotinson

Brandi Ritcherson Project Manager





Project Id:

Contact:Aaron LiebProject Location:Birdseye 32 St #1H

Certificate of Analysis Summary 553603

COG Operating LLC, Artesia, NM Project Name: Birdseye 32 St #1H



Date Received in Lab:Sat May-20-17 10:30 amReport Date:31-MAY-17Project Manager:Liz Givens

	Lab Id:	553603-0	013	553603-	014	553603-0	015	553603-0	16	553603-0	17	553603-0	018
Analysis Paguested	Field Id:	T2-Surfa	ice	T2-1		T2-2'		T2-3'		T2-4'		T2-9'	
Analysis Kequeslea	Depth:			1 ft	1 ft		2 ft			4 ft		9 ft	
M		SOIL	SOIL		SOIL			SOIL		SOIL		SOIL	
	Sampled:	May-16-17	May-16-17 12:15		12:15	May-16-17	12:15	May-16-17	12:15	May-16-17	12:15	May-16-17	12:15
BTEX by EPA 8021B	Extracted:	May-23-17	07:30	May-23-17	07:30	May-23-17	07:30						
	Analyzed:	May-23-17	10:39	May-23-17	13:55	May-23-17	10:06						
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Toluene		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Ethylbenzene		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
m,p-Xylenes		< 0.00704	0.00704	< 0.00778	0.00778	< 0.00702	0.00702						
o-Xylene		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Total Xylenes		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Total BTEX		< 0.00352	0.00352	< 0.00389	0.00389	< 0.00351	0.00351						
Inorganic Anions by EPA 300/300.1	Extracted:	May-25-17	21:48	May-25-17 21:48		May-25-17 21:48		May-25-17	lay-25-17 21:48 May-25-17 21:48		21:48	May-25-17 21:48	
SUB: TX104704215	Analyzed:	May-26-17	01:42	May-26-17	01:51	May-26-17	02:01	May-26-17 02:10		May-26-17 02:19		May-26-17 02:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2510	96.3	304	9.71	2660	97.8	73.2	9.58	112	9.49	4490	46.9
TPH By SW8015 Mod	Extracted:	May-24-17	11:00	May-24-17	11:00	May-24-17	11:00						
	Analyzed:	May-24-17 15:37		May-24-17	15:59	May-24-17	16:20						
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
C6-C10 Gasoline Range Hydrocarbons		<15.0	15.0	<15.0	15.0	<15.0	15.0						
C10-C28 Diesel Range Hydrocarbons		722	15.0	<15.0	15.0	<15.0	15.0						
Total TPH		722	15.0	<15.0	15.0	<15.0	15.0						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brand Rotinson

Brandi Ritcherson Project Manager

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for COG Operating LLC

**Project Manager: Aaron Lieb** 

Birdseye 32 St #1H

#### 31-MAY-17

Collected By: Client





#### 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





31-MAY-17

Project Manager: **Aaron Lieb COG Operating LLC** 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): **553603 Birdseye 32 St #1H** Project Address: Birdseye 32 St #1H

#### Aaron Lieb:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 553603. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 553603 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

mand

Brandi Ritcherson Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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#### Sample Cross Reference 553603



#### COG Operating LLC, Artesia, NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T1-Surface	S	05-16-17 11:30	N/A	553603-001
T1-1'	S	05-16-17 11:30	- 1 ft	553603-002
T1-2'	S	05-16-17 11:30	- 2 ft	553603-003
T1-3'	S	05-16-17 11:30	- 3 ft	553603-004
T1-4'	S	05-16-17 11:30	- 4 ft	553603-005
T1-6'	S	05-16-17 11:30	- 6 ft	553603-006
T1-8'	S	05-16-17 11:45	- 8 ft	553603-007
T1-10'	S	05-16-17 11:45	- 10 ft	553603-008
T1-12'	S	05-16-17 11:45	- 12 ft	553603-009
T1-14'	S	05-16-17 11:45	- 14 ft	553603-010
T1-16'	S	05-16-17 12:00	- 16 ft	553603-011
T1-18'	S	05-16-17 12:00	- 18 ft	553603-012
T2-Surface	S	05-16-17 12:15	N/A	553603-013
T2-1'	S	05-16-17 12:15	- 1 ft	553603-014
T2-2'	S	05-16-17 12:15	- 2 ft	553603-015
T2-3'	S	05-16-17 12:15	- 3 ft	553603-016
T2-4'	S	05-16-17 12:15	- 4 ft	553603-017
T2-9'	S	05-16-17 12:15	- 9 ft	553603-018



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Client Name: COG Operating LLC Project Name: Birdseye 32 St #1H

Project ID: Work Order Number(s): 553603

BORATORIES

Report Date: *31-MAY-17* Date Received: *05/20/2017* 

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3018068 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3018240 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





#### COG Operating LLC, Artesia, NM

Sample Id:	T1-Surface		Matrix:	Soil		Γ	Date Received:05.	20.17 10.3	0
Lab Sample Id	: 553603-001		Date Coll	lected: 05.16	.17 11.30				
Analytical Met	hod: Inorganic Anion	s by EPA 300/30	00.1			P	rep Method: E3	00P	
Tech:	DHE					9	6 Moisture:		
Analyst:	DHE		Date Pret	v 05.25	17 21 48	F	Basis: We	t Weight	
Sea Number:	3018295		Date Trep	). 05.25	.17 21.40	5	UB: TX1047042	15	
Seq Pulliber.	5010275					D	CD. 111047042	15	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	3120	48.5		mg/kg	05.25.17 22.54		5
Analytical Met	hod: TPH By SW801	5 Mod				P	rep Method: TX	1005P	
Tech:	ARM					9	6 Moisture:		
Analyst:	ARM		Date Pret	05.24	.17 11.00	E	Basis: We	t Weight	
Seq Number:	3018186							C	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline R	ange Hydrocarbons	PHC610	69.0	15.0		mg/kg	05.24.17 13.52		1
C10-C28 Diesel I	Range Hydrocarbons	C10C28DRO	425	15.0		mg/kg	05.24.17 13.52		1
Total TPH		PHC635	494	15.0		mg/kg	05.24.17 13.52		1
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooct	ane		111-85-3	113	%	70-135	05.24.17 13.52		
o-Terpheny!	l		84-15-1	117	%	70-135	05.24.17 13.52		
Analytical Met	hod: BTEX by EPA 8	3021B				F	Prep Method: SW	/5030B	
				05.04	17.07.20	7			
Analyst:	ALJ 2018240		Date Prep	b: 05.24	.1/0/.30	E	Sasis: we	et weight	
Seq Number:	5018240								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene		71-43-2	< 0.00364	0.00364		mg/kg	05.24.17 08.58	U	1
Toluene		108-88-3	< 0.00364	0.00364		mg/kg	05.24.17 08.58	U	1
Ethylbenzene		100-41-4	< 0.00364	0.00364		mg/kg	05.24.17 08.58	U	1
m,p-Xylenes		179601-23-1	< 0.00727	0.00727		mg/kg	05.24.17 08.58	U	1
o-Xylene		95-47-6	< 0.00364	0.00364		mg/kg	05.24.17 08.58	U	1
Total Xylenes		1330-20-7	< 0.00364	0.00364		mg/kg	05.24.17 08.58	U	1
Total BTEX			< 0.00364	0.00364		mg/kg	05.24.17 08.58	U	1
Surrogate			Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
1,4-Difluoro	obenzene		540-36-3	102	%	80-120	05.24.17 08.58		
4-Bromoflu	orobenzene		460-00-4	88	%	80-120	05.24.17 08.58		





#### COG Operating LLC, Artesia, NM

Sample Id: T1-1'		Matrix:	Soil		Γ	Date Received:05.2	20.17 10.3	0
Lab Sample Id: 553603-002		Date Coll	ected: 05.16	.17 11.30	S	ample Depth: 1 f	t	
Analytical Method: Inorganic Anion	s by EPA 300/30	00.1			F	Prep Method: E30	00P	
Tech: DHE					9	6 Moisture:		
Analyst: DHE		Date Prer	v 05.25	17 21.48	F	Basis: We	t Weight	
Seq Number: 3018295		Duterrep			s	UB: TX1047042	15	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1810	9.60		mg/kg	05.25.17 23.03		1
Analytical Method: TPH By SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prer	v 05.24	.17 11.00	E	Basis: We	t Weight	
Seq Number: 3018186		Duterrep					0	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	89.3	15.0		mg/kg	05.24.17 14.12		1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	626	15.0		mg/kg	05.24.17 14.12		1
Total TPH	PHC635	715	15.0		mg/kg	05.24.17 14.12		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	05.24.17 14.12		
o-Terphenyl		84-15-1	85	%	70-135	05.24.17 14.12		
Analytical Method: BTEX by EPA 8	3021B				F	Prep Method: SW	5030B	
Tech: ALJ					9	6 Moisture:		
Analyst: ALJ		Date Prep	o: 05.23	.17 07.30	E	Basis: We	t Weight	
Seq Number: 3018068								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00345	0.00345		mg/kg	05.23.17 11.12	U	1
Toluene	108-88-3	< 0.00345	0.00345		mg/kg	05.23.17 11.12	U	1
Ethylbenzene	100-41-4	< 0.00345	0.00345		mg/kg	05.23.17 11.12	U	1
m,p-Xylenes	179601-23-1	0.167	0.00690		mg/kg	05.23.17 11.12		1
o-Xylene	95-47-6	0.0660	0.00345		mg/kg	05.23.17 11.12		1
Total Xylenes	1330-20-7	0.233	0.00345		mg/kg	05.23.17 11.12		1
Total BTEX		0.233	0.00345		mg/kg	05.23.17 11.12		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	80-120	05.23.17 11.12	0	
4-Bromofluorobenzene		460-00-4	103	%	80-120	05.23.17 11.12		



BORATORIES

#### **Certificate of Analytical Results 553603**



#### COG Operating LLC, Artesia, NM

Sample Id: T1-2'		Matrix:	Soil		Γ	Date Received:05.	20.17 10.3	0
Lab Sample Id: 553603-003		Date Coll	ected: 05.16	.17 11.30	S	ample Depth: 2 f	t	
Analytical Method: Inorganic Anio	ns by EPA 300/30	00.1			P	Prep Method: E30	00P	
Tech: DHE					9	6 Moisture:		
Analyst: DHE		Date Prer	· 05.25	.17 21.48	E	Basis: We	t Weight	
Seq Number: 3018295		Duterrep			S	SUB: TX1047042	15	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11400	98.8		mg/kg	05.25.17 23.12		10
Analytical Method: TPH By SW80	15 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prer	· 05.24	17 11 00	F	Basis: We	t Weight	
Seq Number: 3018186		Date Trep	. 00.21	, 11.00	-		e ii eigiit	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.24.17 14.32	U	1
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.24.17 14.32	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	05.24.17 14.32	U	1
			%					
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96 100	%	70-135	05.24.17 14.32		
Analytical Method: BTEX by EPA	8021B				P	Prep Method: SW	5030B	
Tech: ALJ					9	6 Moisture:		
Analyst: ALJ		Date Prep	05.23	.17 07.30	E	Basis: We	t Weight	
Seq Number: 3018068								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Toluene	108-88-3	< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Ethylbenzene	100-41-4	< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00697	0.00697		mg/kg	05.23.17 10.55	U	1
o-Xylene	95-47-6	< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Total Xylenes	1330-20-7	< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Total BTEX		< 0.00348	0.00348		mg/kg	05.23.17 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	80-120	05.23.17 10.55		
4-Bromofluorobenzene		460-00-4	106	%	80-120	05.23.17 10.55		



ABORATORIES

#### **Certificate of Analytical Results 553603**



#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-3'</b> l: 553603-004		Matrix: Date Collec	Soil cted: 05.16.17 11.30	]	Date Received:0 Sample Depth: 3	5.20.17 10.3 ft	0
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			1	Prep Method: E	300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48	]	Basis: W	Vet Weight	
Seq Number:	3018295				:	SUB: TX104704	215	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	16000	97.8	mg/kg	05.25.17 23.40		10



ABORATORIES

#### **Certificate of Analytical Results 553603**



#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-4'</b> l: 553603-005		Matrix: Date Collec	Soil cted: 05.16.17 11.30	]	Date Received:0 Sample Depth:4	5.20.17 10.30 ft	)
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			]	Prep Method: E	E300P	
Tech:	DHE				(	% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48	]	Basis: V	Vet Weight	
Seq Number:	3018295				:	SUB: TX104704	4215	
Parameter		Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
Chloride		16887-00-6	11200	95.8	mg/kg	05.25.17 23.50	)	10



ABORATORIES

#### **Certificate of Analytical Results 553603**



#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-6'</b> l: 553603-006		Matrix: Date Collec	Soil cted: 05.16.17 11.30	]	Date Received:( Sample Depth: (	05.20.17 10.30 6 ft	)
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1			]	Prep Method: 1	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48	]	Basis:	Wet Weight	
Seq Number:	3018295				:	SUB: TX10470	4215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride		16887-00-6	5040	48.3	mg/kg	05.25.17 23.5	9	5





#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-8'</b> l: 553603-007		Matrix: Date Collec	Soil cted: 05.16.17 11.45		Date Received: Sample Depth:	05.20.17 10.3 8 ft	0
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight	
Seq Number:	3018295				1	SUB: TX10470	04215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride		16887-00-6	6720	48.6	mg/kg	05.26.17 00.0	08	5





#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-10'</b> l: 553603-008		Matrix: Date Collec	Soil cted: 05.16.17 11.45	]	Date Received: Sample Depth:	05.20.17 10.30 10 ft	)
Analytical Me Tech:	thod: Inorganic Anions DHE	by EPA 300/300.1			]	Prep Method: % Moisture:	E300P	
Analyst: Seq Number:	DHE 3018295		Date Prep:	05.25.17 21.48	]	Basis: SUB: TX1047(	Wet Weight )4215	
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Chloride		16887-00-6	2680	45.5	mg/kg	05.26.17 00.1	8	5





#### COG Operating LLC, Artesia, NM

Seq Number:	3018295				:	SUB: TX104704	4215	
Analyst: Sea Number:	DHE 3018295		Date Prep:	05.25.17 21.48	]	Basis: V SUB: TX104704	Vet Weight 4215	
Tech:	DHE					% Moisture:		
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1			]	Prep Method: E	E300P	
Lab Sample Id.	d: 553603-009		Date Collec	cted: 05.16.17 11.45	:	Sample Depth: 1	2 ft	0
Sample Id:	T1-12'		Matrix:	Soil	]	Date Received:0	5.20.17 10.3	0





#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T1-14'</b> l: 553603-010		Matrix: Date Collec	Soil cted: 05.16.17 11.45		Date Received: Sample Depth:	05.20.17 10.3 14 ft	0
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight	
Seq Number:	3018295		-			SUB: TX10470	04215	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride		16887-00-6	333	9.98	mg/kg	05.26.17 00.3	6	1





#### COG Operating LLC, Artesia, NM

Sample Id:	T1-16'		Matrix:	Soil		Date Received:05	5.20.17 10.30	)
Lab Sample Io	d: 553603-011		Date Collec	cted: 05.16.17 12.00		Sample Depth: 16	5 ft	
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method: E	300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis: W	et Weight	
Seq Number:	3018295					SUB: TX104704	215	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	94.0	9.94	mg/kg	05.26.17 01.04		1





#### COG Operating LLC, Artesia, NM

Sample Id:	T1-18'		Matrix:	Soil		Date Received	:05.20.17 10.3	30
Lab Sample Io	1: 553603-012		Date Collec	cted: 05.16.17 12.00		Sample Depth:	18 ft	
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P	
Tech:	DHE					% Moisture:		
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight	
Seq Number:	3018295					SUB: TX1047	04215	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Flag	Dil
Chloride		16887-00-6	162	9.82	mg/kg	05.26.17 01.3	33	1





#### COG Operating LLC, Artesia, NM

Sample Id: <b>T2-Surface</b>		Matrix:	Soil		Date Received:05.20.17 10.30					
Lab Sample Id: 553603-013		Date Coll	ected: 05.16	5.17 12.15						
Analytical Method: Inorganic Anion	s by EPA 300/30	00.1			F	Prep Method: E30	00P			
Tech: DHE					9	% Moisture:				
Analyst: DHE		Date Prep	: 05.25	5.17 21.48	E	Basis: We	t Weight			
Seq Number: 3018295		p			S	SUB: TX1047042	15			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	2510	96.3		mg/kg	05.30.17 17.29		10		
Analytical Method: TPH By SW801	5 Mod				F	Prep Method: TX	1005P			
Tech: ARM					9	% Moisture:				
Analyst <sup>·</sup> ARM		Date Prer	. 05.24	17 11 00	F	Rasis: We	t Weight			
Seq Number: 3018186		Date Trep	. 05.2-	, 11.00	-		e worght			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.24.17 15.37	U	1		
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	722	15.0		mg/kg	05.24.17 15.37		1		
Total TPH	PHC635	722	15.0		mg/kg	05.24.17 15.37		1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	82	%	70-135	05.24.17 15.37				
o-Terphenyl		84-15-1	81	%	70-135	05.24.17 15.37				
Analytical Method: BTEX by EPA 8	3021B				F	Prep Method: SW	75030B			
Analyste ALL			05.20	17 07 20	/ T	o Moisture.	t Waight			
Analyst. ALS Sea Number: 3018068		Date Prep	: 05.23	0.17 07.50	Ľ	Jasis. we	a weight			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Benzene	71-43-2	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1		
Toluene	108-88-3	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1		
Ethylbenzene	100-41-4	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1		
m,p-Xylenes	179601-23-1	< 0.00704	0.00704		mg/kg	05.23.17 10.39	U	1		
o-Xylene	95-47-6	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1		
Total Xylenes	1330-20-7	< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1		
Total BTEX		< 0.00352	0.00352		mg/kg	05.23.17 10.39	U	1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
4-Bromofluorobenzene		460-00-4	91	%	80-120	05.23.17 10.39				
1,4-Difluorobenzene		540-36-3	95	%	80-120	05.23.17 10.39				





#### COG Operating LLC, Artesia, NM

Sample Id: T2-1'		Matrix:	Soil		Γ	Date Received:05.2	20.17 10.3	0		
Lab Sample Id: 553603-014		Date Coll	ected: 05.16	.17 12.15	Sample Depth: 1 ft					
Analytical Method: Inorganic Anio	ns by EPA 300/30	00.1			P	Prep Method: E30	00P			
Tech: DHE					9	6 Moisture:				
Analyst: DHE		Date Prer	v 05.25	17 21 48	F	Basis: We	t Weight			
Seq Number: 3018295		Date Tre	). 05.25	.17 21.10	S	SUB: TX10470421	15			
	~ •• •									
Parameter		Result	RL		Units	Analysis Date	Flag	Dil		
Chioride	10887-00-0	304	9.71		mg/kg	05.26.17 01.51		1		
Analytical Method: TPH By SW80	15 Mod				P	Prep Method: TX	1005P			
Tech: ARM					9	6 Moisture:				
Analyst: ARM		Date Prep	o: 05.24	.17 11.00	E	Basis: We	t Weight			
Seq Number: 3018186										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.24.17 15.59	U	1		
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.24.17 15.59	U	1		
Total TPH	PHC635	<15.0	15.0		mg/kg	05.24.17 15.59	U	1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	92	%	70-135	05.24.17 15.59				
o-Terphenyl		84-15-1	94	%	70-135	05.24.17 15.59				
Analytical Method: BTEX by EPA	8021B				P	Prep Method: SW	5030B			
Tech: ALJ					9	6 Moisture:				
Analyst: ALJ		Date Prep	05.23	.17 07.30	E	Basis: We	t Weight			
Seq Number: 3018068										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Benzene	71-43-2	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Toluene	108-88-3	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Ethylbenzene	100-41-4	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
m,p-Xylenes	179601-23-1	< 0.00778	0.00778		mg/kg	05.23.17 13.55	U	1		
o-Xylene	95-47-6	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Total Xylenes	1330-20-7	< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Total BTEX		< 0.00389	0.00389		mg/kg	05.23.17 13.55	U	1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
4-Bromofluorobenzene		460-00-4	87	%	80-120	05.23.17 13.55				
1,4-Difluorobenzene		540-36-3	86	%	80-120	05.23.17 13.55				





#### COG Operating LLC, Artesia, NM

Sample Id: T2-2'		Matrix:	Soil		Γ	Date Received:05.2	20.17 10.3	0		
Lab Sample Id: 553603-015		Date Coll	ected: 05.16	.17 12.15	Sample Depth: 2 ft					
Analytical Method: Inorganic Anio	ns by EPA 300/3(	0.1			Р	Prep Method: E30	)0P			
Tech: DHE					0/	6 Moisture:				
Analyst: DHE		Data Dram	. 05.25	17 21 48	F	asis: We	t Weight			
Sog Number: 3018205		Date Prep	: 05.25	.1/ 21.40	L C	$\mathbf{VID}_{\mathbf{T}} \mathbf{TV} 1047042^{T}$	t weight			
Seq Number: 3018293					د	OUD: 1A104/042	15			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	2660	97.8		mg/kg	05.30.17 18.30		10		
Analytical Method: TPH By SW80	15 Mod				P	Prep Method: TX	1005P			
Tech: ARM					9	6 Moisture:				
Analyst: ARM		Date Pren	. 05.24	17 11 00	F	asis: We	t Weight			
Seq Number: 3018186		Date Trep	. 05.24	.17 11.00	L		e worght			
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
C6-C10 Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	05.24.17 16.20	U	1		
C10-C28 Diesel Range Hydrocarbons	C10C28DRO	<15.0	15.0		mg/kg	05.24.17 16.20	U	1		
Total TPH	PHC635	<15.0	15.0		mg/kg	05.24.17 16.20	U	1		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag			
1-Chlorooctane		111-85-3	94	%	70-135	05.24.17 16.20				
o-Terphenyl		84-15-1	96	%	70-135	05.24.17 16.20				
Analytical Method: BTEX by EPA	8021B				P	Prep Method: SW	5030B			
Tech: ALJ					9	6 Moisture:				
Analyst: ALJ		Date Prep	: 05.23	.17 07.30	E	Basis: We	t Weight			
Seq Number: 3018068										
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil		
Benzene	71-43-2	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Toluene	108-88-3	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Ethylbenzene	100-41-4	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
m,p-Xylenes	179601-23-1	< 0.00702	0.00702		mg/kg	05.23.17 10.06	U	1		
o-Xylene	95-47-6	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Total Xylenes	1330-20-7	< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Total BTEX		< 0.00351	0.00351		mg/kg	05.23.17 10.06	U	1		
Surrogate		Cas Number	%	Units	Limits	Analysis Date	Flag			
1 4-Difluorobenzene		540-36-3	Necovery 90	%	80-120	05 23 17 10 06	8			
4-Bromofluorobenzene		460-00-4	114	%	80-120	05.23.17 10.06				
2 Distinitian Stolenic					00 120	00.2011/ 10.00				





#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T2-3'</b> l: 553603-016		Matrix: Date Collec	Soil cted: 05.16.17 12.15		Date Received:05.20.17 10.30 Sample Depth: 3 ft						
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P					
Tech:	DHE					% Moisture:						
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight					
Seq Number:	3018295				1	SUB: TX10470	4215					
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil				
Chloride		16887-00-6	73.2	9.58	mg/kg	05.26.17 02.1	0	1				





#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T2-4'</b> l: 553603-017		Matrix: Date Collec	Soil cted: 05.16.17 12.15	Date Received:05.20.17 10.30 Sample Depth:4 ft						
Analytical Me	ethod: Inorganic Anions	by EPA 300/300.1				Prep Method: E	E300P				
Tech:	DHE					% Moisture:					
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis: V	Vet Weight				
Seq Number:	3018295					SUB: TX104704	4215				
Parameter		Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil			
Chloride		16887-00-6	112	9.49	mg/kg	05.26.17 02.19	)	1			





#### COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	<b>T2-9'</b> l: 553603-018		Matrix: Date Collec	Soil cted: 05.16.17 12.15		Date Received:05.20.17 10.30 Sample Depth: 9 ft					
Analytical Me	thod: Inorganic Anions	by EPA 300/300.1				Prep Method:	E300P				
Tech:	DHE					% Moisture:					
Analyst:	DHE		Date Prep:	05.25.17 21.48		Basis:	Wet Weight				
Seq Number:	3018295					SUB: TX10470	04215				
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil			
Chloride		16887-00-6	4490	46.9	mg/kg	05.26.17 02.2	.9	5			



#### LABORATORIES

#### **Flagging Criteria**



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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \*\* Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Final 1.000



QC Summary 553603

#### COG Operating LLC

Analytical Method:	Inorganic Anions b	rganic Anions by EPA 300/300.1						Pr	ep Metho	d: SW9	0056P	
Seq Number:	3018295		]	Matrix:	Solid				Date Pre	p: 05.2	5.17	
MB Sample Id:	725242-1-BLK		LCS San	nple Id:	725242-1-	BKS		LCSI	O Sample	Id: 7252	242-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<1.00	10.0	10.5	105	10.4	104	80-120	1	20	mg/kg	05.25.17 21:57	

Analytical Method:	Inorganic A	ganic Anions by EPA 300/300.1								Prep Method: SW9056P			
Seq Number:	3018295			I	Matrix:	Solid				Date Prep	p: 05.2	5.17	
Parent Sample Id:	553595-001			MS Sam	ple Id:	553595-00	1 S		MSE	Sample	Id: 5535	95-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		565000	50000	615000	100	616000	102	80-120	0	20	mg/kg	05.25.17 22:26	

Analytical Method:	<b>Inorganic Anions b</b>	y EPA 300/3	800.1					Pr	ep Metho	d: E30	)P	
Seq Number:	3018295		]	Matrix:	Soil				Date Pre	ep: 05.2	5.17	
Parent Sample Id:	553603-010		MS San	nple Id:	553603-01	0 S		MSI	O Sample	Id: 5536	603-010 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	333	99.8	429	96	430	97	80-120	0	20	mg/kg	05.26.17 00:46	

Analytical Method:TPH By SW8015 ModSeq Number:3018186MB Sample Id:725165-1-BLK				Matrix: Solid LCS Sample Id: 725165-1-BKS L					Pr LCSI	Prep Method: TX1005P Date Prep: 05.24.17 LCSD Sample Id: 725165-1-BSD			
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hy	drocarbons	<15.0	1000	1110	111	1050	105	70-135	6	35	mg/kg	05.24.17 13:11	
C10-C28 Diesel Range Hyd	rocarbons	<15.0	1000	1150	115	1060	106	70-135	8	35	mg/kg	05.24.17 13:11	
Surrogate		MB %Rec	MB Flag	L( %)	CS Rec	LCS Flag	LCSI %Ree	) LCS c Flag	D Li g	mits	Units	Analysis Date	
1-Chlorooctane		114		1	16		101		70	-135	%	05.24.17 13:11	
o-Terphenyl		117		1	13		102		70	-135	%	05.24.17 13:11	



#### **COG Operating LLC**

Birdseye 32 St #1H

Analytical Method:	TPH By SV	V8015 M	od						Pr	ep Meth	od: TX1	005P	
Seq Number:	3018186				Matrix:	Soil				Date Pr	ep: 05.2	4.17	
Parent Sample Id:	553603-003			MS Sar	nple Id:	553603-00	03 S		MSI	D Sample	e Id: 5536	503-003 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C10 Gasoline Range Hy	drocarbons	<15.0	998	963	96	931	93	70-135	3	35	mg/kg	05.24.17 14:54	
C10-C28 Diesel Range Hyd	rocarbons	<15.0	998	998	100	979	98	70-135	2	35	mg/kg	05.24.17 14:54	
Surrogate				N %	1S Rec	MS Flag	MSD %Ree	mSE c Flag	) Li g	mits	Units	Analysis Date	
1-Chlorooctane					78		96		70	-135	%	05.24.17 14:54	
o-Terphenyl				5	35		92		70	-135	%	05.24.17 14:54	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 8021</b> 3018068 725094-1-BLK	B	LCS San	Matrix: nple Id:	Solid 725094-1-	-BKS		P1 LCS	ep Meth Date Pr D Sample	od: SW3 rep: 05.2 e Id: 7250	5030B 3.17 )94-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.101	101	0.0973	97	70-130	4	35	mg/kg	05.23.17 07:21	
Toluene	< 0.00199	0.0996	0.0945	95	0.108	108	70-130	13	35	mg/kg	05.23.17 07:21	
Ethylbenzene	< 0.00199	0.0996	0.102	102	0.115	115	71-129	12	35	mg/kg	05.23.17 07:21	
m,p-Xylenes	< 0.00398	0.199	0.206	104	0.211	106	70-135	2	35	mg/kg	05.23.17 07:21	
o-Xylene	< 0.00199	0.0996	0.100	100	0.0910	91	71-133	9	35	mg/kg	05.23.17 07:21	
Surrogate	MB %Rec	MB Flag	L( %)	CS Rec	LCS Flag	LCSI %Re	) LCSI c Flag	D Li g	imits	Units	Analysis Date	
1,4-Difluorobenzene	111		8	32		96		80	-120	%	05.23.17 07:21	
4-Bromofluorobenzene	116		1	07		105		80	-120	%	05.23.17 07:21	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3018240 725152-1-BLK	B	l LCS San	Matrix: nple Id:	Solid 725152-1-	-BKS		Pi LCS	rep Metho Date Pro D Sample	od: SW5 ep: 05.2 e Id: 7251	5030B 4.17 152-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0829	83	0.0836	83	70-130	1	35	mg/kg	05.24.17 07:03	
Toluene	< 0.00200	0.100	0.0955	96	0.0881	87	70-130	8	35	mg/kg	05.24.17 07:03	
Ethylbenzene	< 0.00200	0.100	0.0916	92	0.0974	96	71-129	6	35	mg/kg	05.24.17 07:03	
m,p-Xylenes	< 0.00400	0.200	0.190	95	0.190	95	70-135	0	35	mg/kg	05.24.17 07:03	
o-Xylene	< 0.00200	0.100	0.0934	93	0.0953	94	71-133	2	35	mg/kg	05.24.17 07:03	
Surrogate	MB %Rec	MB Flag	L0 %]	CS Rec	LCS Flag	LCSD %Rec	) LCS : Flag	D Li g	imits	Units	Analysis Date	
1,4-Difluorobenzene	95		1	17		92		80	)-120	%	05.24.17 07:03	
4-Bromofluorobenzene	86		1	10		115		80	0-120	%	05.24.17 07:03	

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Flag

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#### COG Operating LLC

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW:	5030B
Seq Number:	3018068			Matrix:	Soil				Date Pr	rep: 05.2	3.17
Parent Sample Id:	553455-001		MS Sar	nple Id:	553455-0	01 S		MS	D Sampl	e Id: 5534	455-001 SD
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00358	0.179	0.135	75	0.133	75	70-130	1	35	mg/kg	05.23.17 07:54
Toluene	< 0.00358	0.179	0.137	77	0.135	76	70-130	1	35	mg/kg	05.23.17 07:54
Ethylbenzene	< 0.00358	0.179	0.164	92	0.138	78	71-129	17	35	mg/kg	05.23.17 07:54
m,p-Xylenes	< 0.00717	0.358	0.331	92	0.254	72	70-135	26	35	mg/kg	05.23.17 07:54
o-Xylene	< 0.00358	0.179	0.168	94	0.127	72	71-133	28	35	mg/kg	05.23.17 07:54
Surrogate			N %	/IS Rec	MS Flag	MSD %Ree	MSI c Flag	D Li g	imits	Units	Analysis Date
1,4-Difluorobenzene			1	10		116		80	0-120	%	05.23.17 07:54
4-Bromofluorobenzene			1	07		118		80	0-120	%	05.23.17 07:54

BTEX by EPA 802	lB						Pı	ep Meth	od: SW:	5030B	
3018240			Matrix:	Soil				Date Pr	rep: 05.2	4.17	
553690-003		MS San	nple Id:	553690-00	03 S		MS	D Sampl	e Id: 553	590-003 SD	
Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
< 0.00202	0.101	0.0748	74	0.0731	73	70-130	2	35	mg/kg	05.24.17 07:36	
< 0.00202	0.101	0.0790	78	0.0716	72	70-130	10	35	mg/kg	05.24.17 07:36	
< 0.00202	0.101	0.0837	83	0.0716	72	71-129	16	35	mg/kg	05.24.17 07:36	
< 0.00403	0.202	0.168	83	0.147	73	70-135	13	35	mg/kg	05.24.17 07:36	
< 0.00202	0.101	0.0785	78	0.0738	74	71-133	6	35	mg/kg	05.24.17 07:36	
		N %]	1S Rec	MS Flag	MSD %Rec	MSI 2 Flag	) Li g	mits	Units	Analysis Date	
		1	20		114		80	-120	%	05.24.17 07:36	
		1	16		120		80	-120	%	05.24.17 07:36	
	BTEX by EPA 8021 3018240 553690-003 Parent Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202	BTEX by EPA 8021B     3018240     553690-003     Parent Result   Spike Amount     <0.00202	BTEX by EPA 8021B     3018240     553690-003   MS San     Parent Result   Spike Amount   MS Result     <0.00202	BTEX by EPA 8021B   3018240 Matrix:   553690-003 MS Sample Id:   Parent Result Spike Amount MS MS   <0.00202	BTEX by EPA 8021B   3018240 Matrix: Soil   553690-003 MS Sample Id: 553690-00   Parent Result Spike Amount MS MS MSD Result   <0.00202	BTEX by EPA 8021B   3018240 Matrix: Soil   553690-003 MS Sample Id: 553690-003 S   Parent Result Spike Amount MS MS MSD MSD   <0.00202	BTEX by EPA 8021B   3018240 Matrix: Soil   553690-003 MS Sample Id: 553690-003 S   Parent Result Spike Amount MS MS MSD MSD Limits   <0.00202	BTEX by EPA 8021B Matrix: Soil   3018240 Matrix: Soil   553690-003 MS Sample Id: 553690-003 S MSS   Parent Result Spike Amount MS MS MSD MSD Limits %RPD   <0.00202	BTEX by EPA 8021B Prep Meth   3018240 Matrix: Soil Date Pr   553690-003 MS Sample Id: 553690-003 S MSD Sample MSD Sample   Parent Result Spike Amount MS Result MS %Rec MSD %Rec <td>BTEX by EPA 8021B Prep Method: SW3   3018240 Matrix: Soil Date Prep: 05.2   553690-003 MS Sample Id: 553690-003 S MSD Sample Id: 553690-003 S MSD Sample Id: 553690-003 S   Parent Result Spike Amount MS MS MS MSD Result MSD %Rec Limits %RPD Limit RPD Limit Units   &lt;0.00202</td> 0.101 0.0748 74 0.0731 73 70-130 2 35 mg/kg   <0.00202	BTEX by EPA 8021B Prep Method: SW3   3018240 Matrix: Soil Date Prep: 05.2   553690-003 MS Sample Id: 553690-003 S MSD Sample Id: 553690-003 S MSD Sample Id: 553690-003 S   Parent Result Spike Amount MS MS MS MSD Result MSD %Rec Limits %RPD Limit RPD Limit Units   <0.00202	BTEX by EPA 8021B Prep Method: SW5030B   3018240 Matrix: Soil Date Prep: 05.24.17   553690-003 MS Sample Id: 553690-003 S MSD Sample Id: 553690-003 SD   Parent Result Spike Amount MS MS MSS MSD MSD MSD MSD RPD RPD Linit Units Analysis   <0.00202

### Setting the Standard since 1990 Stafford, Texas (281-240-4200)

## CHAIN OF CUSTODY Page $\angle$ of 2

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Received by	, <b>OCD</b> :	12/16/2022	10:45:00	AM

Dailas Texas (214-902-0300)	Midland, Texas (432-704-5251)	Xenco Ouote # Xenco Job #	
	T management of the second s	Analytical Information	COD
Client / Reporting Information	Project Information		
Company Name / Branch: COG Operating LLC	Project Name/Number: Birdseve 32 St.#1H		W = Water
Company Address: 2407 PECOS Avenue Artesia NM 88210	Project Location: Birdseve 32 St.#1H		s = soursearsona GW =Ground Water DW = Drinking Water
Email: Phone No: 575-748 alieb@concho.com dneel2@concho.com rhaskell@concho.com	-1553 Invoice To: COG Operating LLC Attn: Robert Mcneill 600 W Illinois		P = Product SW = Surface water SL = Sludge
Project Contact: Aaron Lieb	Midland TX 79701		OW =Ocean/Sea Water WI = Wipe
Samplers's Name- Aaron Lieb	FO NUMBER:		0 = 0il
	Collection Number of preserved bottles		WW= Waste Water A = Air
No. Field ID / Point of Collection	Depth Date Time Matrix bottles HCI NaOH/Zn Accetate HNO3 H2SO4 NaHSO4 MEOH NaHSO4 MEOH NAHSO4	TPH BTEX Chloride	Field Commonly
1 TI- Sual	Sight S/16/17 11:30AM S 1		
271-1			
3 T 1 - 2	2 1		
4 T1- 3	3	×	
5 1/- 4		×	
6 / 1 - 6			
7 1 1 - 8	3 11: MSm 1 1		
10 T 1 1 1 1			
Turnaround Time (Business days)	Data Deliverable Information	Notes:	
Same Day TAT 5 Day TAT	Level II Std QC	g /raw data)	
Next Day EMERGENCY	Level III Std QC+ Forms TRRP Level IV		
2 Day EMERGENCY Contract TAT	Level 3 (CLP Forms) UST / RG -411		
3 Day EMERGENCY	TRRP Checklist		
TAT Starts Day received by Lab, if received by 5:00		FED-EX / UPS: Tracking #	
Relinquished Sampler:	Date Time: 11:00 Received By: 11:00 Received By: S/19/17 11:00 Received By: 11:00 Relinquished By:	Date Time: Received By:	
з	Date Time: Received By:	Date Time: Received By: Ter	
5 5	Date Time: Received By: Custody Seal #	Preserved where applicable On/ce CF:	:(0-6: -0.2°C) IN IU:H-8
Notice: Notice: Signature of this document and relinquishment of samples constitu any losses or expenses incurred by the Client if such loses are due to circumstanc terms will be enforced unless previously negoliated under a fully executed client c	utes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns star- ces beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liabilit ontract.	and terms and conditions of service. Xenco will be liable only for t will be limited to the cost of samples. Any samples received by <sup>XI</sup> COr	(6~23: +0.2°C) rrected Temp:

Dallas Texas (214-902-0300)	Setting the Standard since 1990 Stafford,Texas (281-240-4200)	XENCO	
Midland,	San Anto		

# CHAIN OF CUSTODY

tonio, Texas (210-509-3334) I, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

Received	by	0	CL	):	12	/1	6/2	202	22	10	):45	:00	AM		
	terms v	Notice	01	Re	ω	Re	-	Re							10

				Analution Inform		00000
Client / Reporting Information		Project Information			nation	Matrix Code
COG Operating LLC	Pr	oject Name/Number: rdseve 32 St #1H				W = Water
Company Address: 2407 PECOS Avenue Artesia NM 88210	Pr	Ject Location:				S = Soil/Sed/ GW =Ground DW = Drinkir
Email: alieb@concho.com dneel2@concho.com rhaskell@coi	o: 575-748-1553 Inv 1cho.com	olce To: COG Operating LLC Attn: Robert Mcneill				P = Product SW = Surfac
Project Contact: Aaron Lieb		600 W. Illinois Midland TX 79701				OW =Ocean/
Samplers's Name- Aaron Lieb	РО	Number:				WI = Wipe O = Oil
No. Field ID / Point of Collection	0	ollection	Number of preserved bottles	e		A = Air
	Sample Depth	Date Time Matrix bottles E	NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE	TPH BTEX Chloride		
91 -1 1	16 2	16/17/2:00 5 1		×		
2 1 - 18	12	12:00 1 1		X		
3		44				
	SURF	12:1500 (		XXX		
	2~			XXX		
7 7 2 - 27 7	21			XXX		
8 T2 - 4	<i>t</i> 1					
° 72 - 9	9	-		×>		
10				<>		
I urnaround Time ( Business days)		Data Deliverable I	nformation	No	les:	
Same Day TAT 5 Day T	AT	Level II Std QC	Level IV (Full Data Pkg /	raw data)		
Next Day EMERGENCY	1	Level III Std QC+ Forms	TRRP Level IV			
2 Day EMERGENCY Contract	t TAT	Level 3 (CLP Forms)	UST / RG -411			
3 Day EMERGENCY		TRRP Checklist				
TAT Starts Day received by Lab, if received	by 5:00 pm			FED-EX.	/ UPS: Tracking #	
Relinquished by Sampler: SAMPLE C	USTODY MUST BE DOCU	MENTED BELOW EACH TIME SAMPLES CHAR	GE POSSESSION, INCLUDING COURIE	R DELIVERY	Ci Ci Hacking #	
Relinquished by:	S/19/1) (1	In 1 Sid Buttle 5	/ 07 A Relinquished By:	Date Time:	Received By:	,
Relinquished by:	Date Ilme:	a City No 10	Relinquished By:	Date Time:	Received By:	
" "file" Nation Simplature of this document and saling tisknool of annu-l		Keceived By: 3	COL +Custody Seal #	Preserved where applicab	le On Jee	(6-23: +0.2°C)

Released to Imaging: 2/7/2023 2:17:12 PM



Date/Time: 05/22/17 08:43

Houston

Lab# From: Midland

Lab# To:

.

Date Printed: Tue May-23-17 11:12 am Page 1 of 2

Please send report to: Liz Givens

Address: 1211 W. Florida Ave, Midland TX 79701 Phone:

E-Mail: liz.givens@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	РМ	Analytes	Sign
553603-001	S	T1-Surface	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-002	S	T1-1'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-003	S	T1-2'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-004	S	T1-3'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-005	S	T1-4'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-006	S	T1-6'	05/16/17 11:30	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-007	S	T1-8'	05/16/17 11:45	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-008	S	T1-10'	05/16/17 11:45	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-009	S	T1-12'	05/16/17 11:45	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-010	S	T1-14'	05/16/17 11:45	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-011	S	T1-16'	05/16/17 12:00	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-012	S	T1-18'	05/16/17 12:00	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-013	S	T2-Surface	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-014	S	T2-1'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-015	S	T2-2'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-016	S	T2-3'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-017	S	T2-4'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	
553603-018	S	T2-9'	05/16/17 12:15	E300	Inorganic Anions by EPA 300/300.1	05/29/17	06/13/17	LIG	CL	

Inter Office Shipment or Sample Comments:

aritza thaya

Relinquished By:

Marithza Anaya

Created by: Jessica Kramer

Air Bill No.: 779201410522

Delivery Priority: Fedex

Date Relinquished: 05/22/2017

Received By:

Mitsuko Konuma

Date Received: 05/23/2017 09:15



.

Date Printed: Tue May-23-17 11:12 am Page 2 of 2

Cooler Temperature: <u>1.0</u>



LABORATORIES

#### **XENCO** Laboratories



#### Inter Office Report- Sample Receipt Checklist

**Sent To:** Houston **IOS #:** 1044016

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used :

Sent By:	Jessica Kramer	Date Sent:	05/22/2017 08:43 AM
Received By:	Mitsuko Konuma	Date Received:	05/23/2017 09:15 AM

#### Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	N/A
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	No
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

**Corrective Action Taken:** 

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by:

Mitsuko Konuma

Date: 05/23/2017

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BORATORIES





#### Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/20/2017 10:30:00 AM Temperature Measuring device used : R8 Work Order #: 553603 Sample Receipt Checklist #1 \*Temperature of cooler(s)? 3.2 #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seal present on shipping container/ cooler? N/A #5 \*Custody Seals intact on shipping container/ cooler? N/A #6 Custody Seals intact on sample bottles? N/A #7 \*Custody Seals Signed and dated? N/A #8 \*Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinguished/ received? Yes #12 Chain of Custody agrees with comple lebel(a)? Vac

#12 Chain of Custody agrees with sample label(s)?	tes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with Chain of Custody?	Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated test(s)?	Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	Yes	Houstor
#21 VOC samples have zero headspace?	N/A	

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 05/22/2017

Comments

Checklist completed by: Jessica Kramer Checklist reviewed by: Liz Givens

Date: 05/22/2017

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	167783
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/7/2023

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Action 167783