

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: Canvasback 13 Federal #002H Release Unit Letter A, Section 13, Township 24 South, Range 31 East Eddy County, New Mexico Incident ID nAB1721951563 2RP-4324

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 May 2018) for the subject line 2RP-4324 (ID nAB1721951563)) release was drafted by TRC Environmental Corporation 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 Ashley Maxwell, Projects Environmental Specialist – A. In the rejection, Ms. Maxwell 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 Closure Report.

Thus, enclosed is a copy of the amended Remediation Summary and Soil Closure Request for the subject line incident. The attached amended Closure Request 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 nAB1721951563, Rejection, Remediation Summary and Soil Closure Request

Page 6

Oil Conservation Division

	Page 2 of 84
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complet and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren 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 C	tet to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability mediate 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 onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name:	Title:
Signature: <u>Charles R. Beauvais </u>	Date:
email:	Telephone:
OCD Ort	
OCD Only	
Received by: Jocelyn Harimon	Date: <u>12/16/2022</u>
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: <u>Ashley Maywell</u>	Date:
Printed Name:	

Chavira, Lisbeth

From:	OCDOnline@state.nm.us
Sent:	Thursday, November 10, 2022 9:38 AM
То:	Beauvais, Charles R
Subject:	[EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 157602

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#) nAB1721951563, for the following reasons:

- Final C-141 was the only document submitted. Closure report not submitted per approved work plan. Laboratory analytical results missing from excavation confirmation samples.
- Submit closure plan, as approved with conditions of approval dated May 2018, to OCD by February 10, 2023.

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 157602. 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

Thank you, Ashley Maxwell Projects Environmental Specialist - A 505-635-5000 Ashley.Maxwell@emnrd.nm.gov

submitting an additional IM-BNF.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

REMEDIATION SUMMARY AND

SOIL CLOSURE REQUEST

COG Operating, LLC Canvasback 13 Federal #002H Eddy County, New Mexico Unit Letter "A", Section 13, Township 24 South, Range 31 East Latitude 32.222781° North, Longitude 103.723086° West NMOCD Reference No. 2RP-4324

Prepared For:

COG Operating, LLC 600 W Illinois Avenue Midland, Texas 79701

Prepared By:

TRC Environmental Corporation 10 Desta Drive, Suite 150E Midland, Texas 79705

May 2018

-)all found

Joel Lowry Senior Project Manager

Curt O Sonley

Curt Stanley Senior Project Manager

TABLE OF CONTENTS

INTRODUCTION & BACKGROUND INFORMATION	1
SUMMARY OF SOIL REMEDIATION ACTIVITIES	2
SITE CLOSURE REQUEST	3
LIMITATIONS	3
DISTRIBUTION	4

FIGURES

Figure 1 – Site Location Map Figure 2 – Site & Sample Location Map

TABLES

Table 1 - Concentrations of Benzene, BTEX, TPH and Chloride in Soil

APPENDICES

- Appendix A Laboratory Analytical Reports
- Appendix B Photographs
- Appendix C Release Notification and Corrective Action (Form C-141)

INTRODUCTION & BACKGROUND INFORMATION

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this *Remediation Summary and Soil Closure Request* for the Site known as Canvasback 13 Federal #002H. The legal description of the Site is Unit Letter "A", Section 13, Township 24 South, Range 31 East, in Eddy County, New Mexico. The subject property is owned by the United State Department of the Interior and administered by the United States Bureau of Land Management (BLM). The GPS coordinates for the site are N 32.222781° W 103.723086°. A "Site Location Map" is provided as Figure 1.

On July 26, 2017, COG discovered a produced water release on a flowline near the Canvasback 13 Federal #002H well pad. The initial Release Notification and Corrective Action (Form C-141) indicated failure of a flowline resulted in the release of approximately eighteen (18) barrels (bbls) of produced water. During initial response activities, the flowline was repaired and approximately sixteen (16) bbls of produced water were recovered utilizing a vacuum truck. The release affected approximately three thousand (3,000) square feet (sq. ft.) of pasture land. A copy of the Form C-141 is provided in Appendix C.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) did not identify any registered water wells in Section 13, Township 24 South, Range 31 East. A reference map utilized by the NMOCD indicates groundwater should be encountered between approximately three hundred fifty (350) feet (ft.) and three hundred seventy-five (375) ft. below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. Based on the NMOCD Site Classification criteria, the Release Site soil remediation levels are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for benzene, toluene, ethylbenzene and xylenes (BTEX), and five thousand (5,000) mg/kg for total petroleum hydrocarbons (TPH). Per NMOCD request, chloride remediation levels for the Release Site will be six hundred (600) mg/kg.

On December 28, 2017, TRC conducted an initial investigation at the site. During the initial investigation, a series of hand-augered soil bores (SP #2 and SP #4) were advanced within the release margins in an effort to delineate the vertical extent of soil impact. During the advancement of the soil bores, eight (8) soil samples (SP #2 @ Surf., SP #2 @ 1', SP #2 @ 2', SP #2 @3', SP #4 @ Surf., SP #4 @ 1', SP #4 @ 2' and SP #4 @ 3') were collected and submitted to Xenco Laboratories in Midland, Texas for determination of chloride using Method 300/300.1. Laboratory analytical results indicated chloride concentrations ranged from 439 mg/kg for soil sample SP #4 @ 3' to less than the applicable laboratory reporting limit (RL) in soil samples SP #4 @ Surface and SP #4 @ 1'. Chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples. Laboratory analytical results are summarized in Table 1 - Concentrations of Benzene,

BTEX, TPH and Chloride in Soil. Laboratory analytical reports are provided in Appendix A. A "Site & Sample Location Map" is provided as Figure 2.

Soil samples SP #2 @ Surf. and SP #4 @ Surf. were also analyzed for concentrations of TPH and BTEX using methods Method SW 846-8015M and Method SW 846-8021B, respectively. Laboratory analytical results indicated TPH and BTEX concentrations were less than the applicable laboratory RL in each of the submitted soil samples.

In addition, TRC collected four (4) soil samples (North @ 1', South @ 1', East @ 1' and West @ 1') from the edges of the inferred release margins and submitted the soil samples to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations were less than the applicable laboratory RL in each of the submitted soil samples, with the exception of soil sample East @ 1', which exhibited a chloride concentration of 29.1 mg/kg. Chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples.

On January 19, 2018, TRC revisited the site in an effort to determine the extent soil was affected above the NMOCD RRAL for chloride. During the site visit, a series of investigated hand-augered soil bores were advanced within the release margins. During the advancement of the investigative hand-augered soil bores, soil samples were collected and field screened for concentrations of chloride. Chloride field screen results indicated soil samples collected from one soil bore (SP-1) exhibited chloride concentrations above the NMOCD RRAL. Based on chloride field screen results, three (3) soil samples (SP-1 @ 1', SP-1 @ 2', and SP-1 @ 3') were submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples, with the exception of soil samples SP-1 @ 1' (603 mg/kg) and SP-1 @ 2' (1,330 mg/kg).

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On April 3, 2018, remediation activities commenced at the Release Site. Impacted soil within the release margins in the area represented by sample point SP-1 was excavated and transported to an NMOCD-permitted facility for disposal. The floor and sidewalls of the excavated area were advanced until chloride field test results indicated chloride concentrations were below the NMOCD RRAL.

On April 4, 2018, TRC collected five (5) excavation confirmation soil samples (FL @ 3', ESW, WSW, SSW and NSW) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicted BTEX and TPH concentrations were less than the applicable laboratory RL in each of the submitted soil samples. Analytical results indicated chloride concentrations ranged from 249 mg/kg in soil sample NSW to less than the applicable laboratory RL in soil sample NSW. BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples. Upon collecting the required confirmation soil samples, the excavated area was backfilled with locally-sourced, non-impacted material. Prior to backfilling, the final dimensions of the excavated area were approximately thirty-five (35) ft. in length, ten (10) ft. to twenty (20) ft. in width and three (3) ft. in depth

On April 5, 2018, approximately thirty-six (36) cubic yards (cy) of impacted soil was transported to R360's Halfway Bar Facility for disposal.

SITE CLOSURE REQUEST

Laboratory analytical results from confirmation soil samples collected from the floor and sidewalls of the excavated areas indicated benzene, BTEX, TPH and/or chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples. Upon collecting the required excavation confirmation soil samples, the excavated area was backfilled with locally-sourced, non-impacted material. Based on laboratory analytical results and field activities conducted to date, TRC recommends COG provide copies of this *Remediation Summary and Soil Closure Request* to the NMOCD and BLM and request closure status to the Canvasback 13 Federal #002H Site.

LIMITATIONS

TRC has prepared this Remediation Summary and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or COG Operating, LLC.

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DISTRIBUTION

Copy 1:	Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210
Copy 2:	Shelly Tucker Carlsbad Field Office United States Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, New Mexico 88220
Сору 3:	Rebecca Haskell COG Operating, LLC 600 W. Illinois Avenue Midland, Texas 79701
Copy 4:	TRC Environmental Corporation 10 Desta Drive, Suite 150 E Midland, Texas 79705





Received by OCD: 12/16/2022 10:57:44 AM

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

COG OPERATING, LLC CANVASBACK 13 FEDERAL #002H (1RP-4324) EDDY COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

				METHODS: SW 846-8021b						METHOD: SW 8015M				
SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - Xylene	TOTAL BTEX	TPH GRO C ₆ -C ₁₀	TPH DRO C ₁₀ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	ТОТАL ТРН С ₆ -С ₃₅	CHLORIDE	
SP #2 @ Surface	12/28/17	In-Situ	< 0.00199	< 0.00199	< 0.00199	< 0.00398	< 0.00199	< 0.00398	<15.0	<15.0	<15.0	<15.0	40.1	
SP #2 @ 1'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	419	
SP #2 @ 2'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	422	
SP #2 @ 3'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	36.8	
North @ 1'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	<4.96	
East @ 1'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	29.1	
South @ 1'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	<4.96	
West @ 1'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	< 5.00	
SP #4 @ Surface	12/28/17	In-Situ	< 0.00201	< 0.00201	< 0.00201	< 0.00402	< 0.00201	< 0.00402	<15.0	<15.0	<15.0	<15.0	<4.93	
SP #4 @ 1'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	<4.90	
SP #4 @ 2'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	19.8	
SP #4 @ 3'	12/28/17	In-Situ	-	-	-	-	-	-	-	-	-	-	439	
SP-1 @ 1'	01/19/18	Excavated	-	-	-	-	-	-	-	-	-	-	603	
SP-1 @ 2'	01/19/18	Excavated	-	-	-	-	-	-	-	-	-	-	1,330	
SP-1 @ 3'	01/19/18	In-Situ	-	-	-	-	-	-	-	-	-	-	153	
FL @ 3'	04/04/18	In-Situ	< 0.0190	< 0.0190	< 0.0190	< 0.0381	< 0.0190	< 0.0190	<3.81	<25.2	<25.2	<25.2	170	
ESW	04/04/18	In-Situ	< 0.0189	< 0.0189	< 0.0189	< 0.0377	< 0.0189	< 0.0189	<3.77	<25.0	<25.0	<25.0	101	
WSW	04/04/18	In-Situ	< 0.0196	< 0.0196	< 0.0196	< 0.0393	< 0.0196	< 0.0196	<3.93	<25.0	<25.0	<25.0	124	
SSW	04/04/18	In-Situ	< 0.0186	< 0.0186	< 0.0186	< 0.0372	< 0.0186	< 0.0186	<3.72	<24.9	<24.9	<24.9	249	
NSW	04/04/18	In-Situ	< 0.0194	< 0.0194	< 0.0194	< 0.0388	< 0.0194	< 0.0194	<3.88	<25.0	<25.0	<25.0	<25.0	
NMOCD Recommended Reme	ediation Acti	on Levels	10					50				5,000	600	



Project Id:Contact:Joel LowryProject Location:Eddy Co, NM

Certificate of Analysis Summary 572383

TRC Solutions, Inc, Midland, TX Project Name: Canvasback 13 Fed 2H



Date Received in Lab:Fri Dec-29-17 12:45 pmReport Date:09-JAN-18Project Manager:Kelsey Brooks

	Lab Id:	572383-0	01	572383-0	002		
Analysis Requested	Field Id:	SP #4 @	SP #4 @ 2'		3'		
	Depth:	2- ft		3- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Dec-28-17	Dec-28-17 10:50		10:55		
Chloride by EPA 300	Extracted:	Jan-03-18 1	Jan-03-18 11:00		1:00	1	1
	Analyzed:	Jan-03-18 1	Jan-03-18 12:47		3:15		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		19.8	4.91	439	4.91		

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

Huns Boah

Kelsey Brooks Project Manager

Page 1 of 12

for TRC Solutions, Inc

Project Manager: Joel Lowry

Canvasback 13 Fed 2H

09-JAN-18

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 10:57:44 AM



09-JAN-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **572383** Canvasback 13 Fed 2H Project Address: Eddy Co, NM

Joel Lowry:

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) 572383. 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. 572383 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,

Huns hoah

Kelsey Brooks 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



Sample Cross Reference 572383



TRC Solutions, Inc, Midland, TX

Canvasback 13 Fed 2H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP #4 @ 2'	S	12-28-17 10:50	2 ft	572383-001
SP #4 @ 3'	S	12-28-17 10:55	3 ft	572383-002



Page 17 of 84

Client Name: TRC Solutions, Inc Project Name: Canvasback 13 Fed 2H

Project ID: Work Order Number(s): 572383
 Report Date:
 09-JAN-18

 Date Received:
 12/29/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





TRC Solutions, Inc, Midland, TX

Canvasback 13 Fed 2H

Sample Id: SP #4 @ 2' Lab Sample Id: 572383-001		Matrix: Date Collecte	Soil d: 12.28.17 10.50		Date Received:12.29.17 12 Sample Depth: 2 ft			
Analytical Method:Chloride by EPA 3Tech:LRIAnalyst:LRISeq Number:3037363	00	Date Prep:	01.03.18 11.00		Prep Method: % Moisture: Basis:	E300	P Veight	
Parameter	Cas Number	Result R	L	Units	Analysis D	ate	Flag	Dil

Chloride

16887-00-6 **19.8**

4.91

mg/kg 01.03.18 12.47

1





TRC Solutions, Inc, Midland, TX

Canvasback 13 Fed 2H

Sample Id: SP #4 @ 3' Lab Sample Id: 572383-002		Matrix: Date Collecte	Soil d: 12.28.17 10.55	I S	Date Received:12.29.17 Sample Depth: 3 ft			
Analytical Method:Chloride by EPA 3Tech:LRIAnalyst:LRISeq Number:3037363	00	Date Prep:	01.03.18 11.00	H g H	Prep Method: % Moisture: Basis:	E300	P Weight	
Parameter	Cas Number	Result F	RL	Units	Analysis Da	ate	Flag	Dil

Chloride

16887-00-6 439

4.91

mg/kg 01.03.18 13.15

1



LABORATORIES

Flagging Criteria



Page 20 of 84

- 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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Dhone

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

	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	





TRC Solutions, Inc

Canvasback 13 Fed 2H

Analytical Method:	Chloride by EPA 30)0						Pr	ep Metho	d: E3	90P	
Seq Number:	3037363	Matrix: Solid			Date Prep:				01.03.18			
MB Sample Id:	7636873-1-BLK	LCS Sample Id: 7636873-1-BKS			LCSD Sample Id:			Id: 763	36873-1-BSD			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag

Analytical Method:	Chloride by	EPA 30	0						Р	rep Metho	od: E30	0P	
Seq Number:	3037363				Matrix:	Soil				Date Pre	ep: 01.0	3.18	
Parent Sample Id:	572383-001			MS San	nple Id:	572383-00	01 S		MS	D Sample	e Id: 572	383-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride		19.8	246	269	101	270	102	90-110	0	20	mg/kg	01.03.18 12:54	

Analytical Method:	Chloride by EPA 30	0						Pr	ep Metho	od: E30	OP	
Seq Number:	3037363			Matrix:	Soil				Date Pre	ep: 01.0	03.18	
Parent Sample Id:	572416-006		MS Sar	nple Id:	572416-00)6 S		MS	D Sample	Id: 572	416-006 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	t Units	Analysis Date	Flag
Chloride	<4.90	245	241	98	241	98	90-110	0	20	mg/kg	01.03.18 11:16	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Company Address: 2057 Commerce Drive		roject Locatic ddy County, ľ	on: New N																					GW =Ground Water
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Final 1.000

Received by OCD: 12/16/2022 10:57:44 AM

Work Order #: 572383

XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

BORATORIES Client: TRC Solutions, Inc

Date/ Time Received: 12/29/2017 12:45:00 PM

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

Temperature Measuring device used : R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.7	7
#2 *Shipping container in good condition?	Ye)S
#3 *Samples received on ice?	Ye	S
#4 *Custody Seals intact on shipping contai	ner/ cooler? Ye	S
#5 Custody Seals intact on sample bottles?	Ye	S
#6*Custody Seals Signed and dated?	Ye	S
#7 *Chain of Custody present?	Ye	S
#8 Any missing/extra samples?	N	0
#9 Chain of Custody signed when relinquish	ned/ received? Ye	S
#10 Chain of Custody agrees with sample la	abels/matrix? Ye	S
#11 Container label(s) legible and intact?	Ye	S
#12 Samples in proper container/ bottle?	Ye	S
#13 Samples properly preserved?	Ye	S
#14 Sample container(s) intact?	Ye	S
#15 Sufficient sample amount for indicated	test(s)? Ye	S
#16 All samples received within hold time?	Ye	S
#17 Subcontract of sample(s)?	N	0
#18 Water VOC samples have zero headsp	ace? N/	Ά

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

Analyst:

PH Device/Lot#:

Date: 01/02/2018

Checklist completed by: Shawnee Smith Checklist reviewed by: Mary Moam Kelsey Brooks

Date: 01/02/2018





Project Id:Contact:Joel LowryProject Location:Eddy Co, NM

Certificate of Analysis Summary 572384

TRC Solutions, Inc, Midland, TX Project Name: Canvasback 13 FED 2H



Date Received in Lab:Fri Dec-29-17 12:45 pmReport Date:10-JAN-18Project Manager:Kelsey Brooks

	Lab Id:	572384-0	001	572384-0	02	572384-0	003	572384-0)04	572384-0	05	572384-0)06
Analysis Paguested	Field Id:	SP #2 @ S	SUR	SP #2 @	1'	SP #2 @	2'	SP #2 @	3'	North @	1'	East @	1'
Analysis Kequesiea	Depth:	0- In		1- ft		1- ft		1- ft		1- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-28-17	10:00	Dec-28-17	10:05	Dec-28-17	10:10	Dec-28-17	10:15	Dec-28-17	10:20	Dec-28-17	10:25
BTEX by EPA 8021B	Extracted:	Jan-02-18	16:00										
	Analyzed:	Jan-03-18	12:17										
	Units/RL:	mg/kg	RL										
Benzene		< 0.00199	0.00199										
Toluene		< 0.00199	0.00199										
Ethylbenzene		< 0.00199	0.00199										
m,p-Xylenes		< 0.00398	0.00398										
o-Xylene		< 0.00199	0.00199										
Total Xylenes		< 0.00199	0.00199										
Total BTEX		< 0.00199	0.00199										
Chloride by EPA 300	Extracted:	Jan-02-18	16:30	Jan-02-18 1	6:30	Jan-02-18 1	16:30	Jan-02-18	16:30	Jan-02-18 1	6:30	Jan-02-18	16:30
	Analyzed:	Jan-02-18 2	21:58	Jan-02-18 2	2:19	Jan-02-18 2	22:26	Jan-02-18 2	22:47	Jan-02-18 2	2:54	Jan-02-18 2	23:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		40.1	4.99	419	4.98	422	4.97	36.8	4.97	<4.96	4.96	29.1	4.99
TPH by SW8015 Mod	Extracted:	Jan-08-18	12:00										
	Analyzed:	Jan-09-18 (00:14										
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0										
Diesel Range Organics (DRO)		<15.0	15.0										
Oil Range Hydrocarbons (ORO)		<15.0	15.0										
Total TPH		<15	15										

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

Huns Boah

Kelsey Brooks Project Manager





Project Id:Contact:Joel LowryProject Location:Eddy Co, NM

Certificate of Analysis Summary 572384

TRC Solutions, Inc, Midland, TX Project Name: Canvasback 13 FED 2H



Date Received in Lab:Fri Dec-29-17 12:45 pmReport Date:10-JAN-18Project Manager:Kelsey Brooks

	Lab Id:	572384-0	07	572384-0	08	572384-0	09	572384-0	10	
Analysis Proposted	Field Id:	South @	1'	West @	1'	SP #4 @ S	UR	SP #4 @	1'	
Analysis Kequesieu	Depth:	1- ft		1- ft		1- ft		1- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		
	Sampled:	Dec-28-17	10:30	Dec-28-17 1	0:35	Dec-28-17 1	10:40	Dec-28-17 1	0:45	
BTEX by EPA 8021B	Extracted:					Jan-02-18 1	6:00			
	Analyzed:					Jan-03-18 1	2:36			
	Units/RL:					mg/kg	RL			
Benzene						< 0.00201	0.00201			
Toluene						< 0.00201	0.00201			
Ethylbenzene						< 0.00201	0.00201			
m,p-Xylenes						< 0.00402	0.00402			
o-Xylene						< 0.00201	0.00201			
Total Xylenes						< 0.00201	0.00201			
Total BTEX						< 0.00201	0.00201			
Chloride by EPA 300	Extracted:	Jan-02-18 1	6:30	Jan-02-18 1	6:30	Jan-02-18 1	6:30	Jan-02-18 1	6:30	
	Analyzed:	Jan-02-18 2	23:08	Jan-02-18 2	3:15	Jan-02-18 2	3:22	Jan-02-18 2	3:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		<4.96	4.96	< 5.00	5.00	<4.93	4.93	<4.90	4.90	
TPH by SW8015 Mod	Extracted:					Jan-03-18 1	0:00			
	Analyzed:					Jan-04-18 0	0:37			
	Units/RL:					mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)						<15.0	15.0			
Diesel Range Organics (DRO)						<15.0	15.0			
Oil Range Hydrocarbons (ORO)						<15.0	15.0			
Total TPH						<15	15			

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

Huns Boah

Kelsey Brooks Project Manager

Analytical Report 572384

for TRC Solutions, Inc

Project Manager: Joel Lowry

Canvasback 13 FED 2H

10-JAN-18

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 10:57:44 AM



10-JAN-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **572384** Canvasback 13 FED 2H Project Address: Eddy Co, NM

Joel Lowry:

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) 572384. 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. 572384 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,

Huns hoah

Kelsey Brooks Project Manager

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Sample Id
SP #2 @ SUR
SP #2 @ 1'
SP #2 @ 2'
SP #2 @ 3'
North @ 1'
East @ 1'
South @ 1'
West @ 1'
SP #4 @ SUR
SP #4 @1'

Sample Cross Reference 572384



TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	12-28-17 10:00	0 In	572384-001
S	12-28-17 10:05	1 ft	572384-002
S	12-28-17 10:10	1 ft	572384-003
S	12-28-17 10:15	1 ft	572384-004
S	12-28-17 10:20	1 ft	572384-005
S	12-28-17 10:25	1 ft	572384-006
S	12-28-17 10:30	1 ft	572384-007
S	12-28-17 10:35	1 ft	572384-008
S	12-28-17 10:40	1 ft	572384-009
S	12-28-17 10:45	1 ft	572384-010



Page 30 of 84

Client Name: TRC Solutions, Inc Project Name: Canvasback 13 FED 2H

Project ID: Work Order Number(s): 572384

BORATORIES

Report Date: 10-JAN-18 Date Received: 12/29/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3037402 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id:SPLab Sample Id:572	* #2 @ SUR 2384-001		Matrix: Date Collected	Soil : 12.28.17 10.00		Date Received Sample Depth:	:12.29.17 0 In	12.45	
Analytical Method:Tech:OJSAnalyst:OJSSeq Number:303	: Chloride by EPA 30 5 5 87498	0	Date Prep:	01.02.18 16.30		Prep Method: % Moisture: Basis:	E300P Wet Wei	ght	
Parameter		Cas Number I	Result R	τ	J nits	Analysis Da	ite Fla	ag	Dil

	Cubitunioer	1000000	ill.	Cinto	Analysis Dute	The	ы
Chloride	16887-00-6	40.1	4.99	mg/kg	01.02.18 21.58		1

Analytical Method: TPH by SW801	5 Mod				P	Prep Method: TX	1005P	
Tech: ALJ					9	6 Moisture:		
Analyst: ALJ		Date Pre	p: 01.08	.18 12.00	E	Basis: We	t Weight	
Seq Number: 3037897								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	01.09.18 00.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	01.09.18 00.14	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	01.09.18 00.14	U	1
Total TPH	PHC635	<15	15		mg/kg	01.09.18 00.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	01.09.18 00.14		
o-Terphenyl		84-15-1	106	%	70-135	01.09.18 00.14		





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id:	SP #2 @ SUR		Matrix:	Soil	Date Received	1:12.29.17 12.45	
Lab Sample Id	: 572384-001		Date Collected	: 12.28.17 10.00	Sample Depth: 0 In		
Analytical Me	thod: BTEX by EPA 802	B			Prep Method:	SW5030B	
Tech:	ALJ				% Moisture:		
Analyst:	ALJ		Date Prep:	01.02.18 16.00	Basis:	Wet Weight	
Seq Number:	3037402						
Doromotor		Cos Number	Docult DI	T		-ta Elan D	

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	01.03.18 12.17	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	01.03.18 12.17	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	01.03.18 12.17	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	01.03.18 12.17	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	01.03.18 12.17	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	01.03.18 12.17	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	01.03.18 12.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	80-120	01.03.18 12.17		
1,4-Difluorobenzene		540-36-3	98	%	80-120	01.03.18 12.17		





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id: SP #2 @ 1' Lab Sample Id: 572384-002		Matrix: Date Collect	Soil ed: 12.28.17 10.05	Date Received:12.29.17 12 Sample Depth: 1 ft		5
Analytical Method: Chloride by EP.	A 300			Prep Metl	nod: E300P	
Analyst: OJS		Date Prep:	01.02.18 16.30	% Moistu Basis:	re: Wet Weight	
Parameter	Cas Number	Result]	RL	Units Analys	sis Date Flag	Dil

Chloride

16887-00-6 **419**

4.98

01.02.18 22.19

mg/kg

1





1

TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id: SP #2 @ 2' Lab Sample Id: 572384-003		Matrix: Date Collected	Soil 1: 12.28.17 10.10	Date Received:12.29.17 12. Sample Depth: 1 ft		
Analytical Method:Chloride by EPA 30Tech:OJSAnalyst:OJSSeq Number:3037498	00	Date Prep:	01.02.18 16.30	Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result R	L Uni	ts Analysis D	ate Flag	Dil

16887-00-6 422

4.97

01.02.18 22.26

mg/kg





1

TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id: SP #2 @ 3'		Matrix: Date Collecte	Soil d: 12 28 17 10 15	Date Re Sample	eceived:12.29.17 12.4	5
Analytical Method: Chloride by EPA 3	00	Date Concert	u. 12.20.17 10.15	Prep M	ethod: E300P	
Tech: OJS				% Mois	sture:	
Analyst: OJS		Date Prep:	01.02.18 16.30	Basis:	Wet Weight	
Seq Number: 3037498						
Parameter	Cas Number	Result F	2L	Units Ana	lysis Date Flag	Dil

Chloride

16887-00-6 **36.8**

4.97

mg/kg

01.02.18 22.47

Released to Imaging: 2/7/2023 1:56:40 PM





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id:	North @ 1'		Matrix:	Soil		Date Received	1:12.29.17 12.4	5
Lab Sample Id	: 572384-005		Date Collected	1: 12.28.17 10.20	Sample Depth: 1 ft			
Analytical Me	thod: Chloride by EPA 30	00				Prep Method:	E300P	
Tech:	OJS					% Moisture:		
Analyst:	OJS		Date Prep:	01.02.18 16.30		Basis:	Wet Weight	
Seq Number:	3037498							
Parameter		Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6

<4.96 4.96

01.02.18 22.54

U

1

mg/kg




TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id: East @ 1'		Matrix:	Soil	Date R	eceived:12.29.17 12.	.45
Lab Sample Id. 572384-006		Date Collecte	a: 12.28.17 10.25	Sample	Deptn: 1 It	
Analytical Method: Chlorid	e by EPA 300			Prep M	ethod: E300P	
Tech: OJS				% Moi	sture:	
Analyst: OJS		Date Prep:	01.02.18 16.30	Basis:	Wet Weight	
Seq Number: 3037498						
Parameter	Cas Number	Result F	RL	Units Ana	lysis Date Flag	Dil

Chloride

16887-00-6 **29.1**

4.99

mg/kg 01.02.18 23.01

1





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id: Lab Sample Id	South @ 1' l: 572384-007		Matrix: Date Collecte	Soil d: 12.28.17 10.30]	Date Received Sample Depth	:12.29.17 12.45 :1 ft	
Analytical Me Tech:	thod: Chloride by EPA 3	00]	Prep Method: % Moisture:	E300P	
Analyst:	OJS 3037408		Date Prep:	01.02.18 16.30		Basis:	Wet Weight	
Parameter	3037470	Cas Number	Result R	L	Units	Analysis Da	ate Flag	Dil

16887-00-6

<4.96 4.96

mg/kg

01.02.18 23.08

U

1





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id:	West @ 1'		Matrix:	Soil	Date Received	1:12.29.17 12.45		
Lab Sample Id	b Sample Id: 572384-008			: 12.28.17 10.35	Sample Depth: 1 ft			
Analytical Me	thod: Chloride by EPA 30	00			Prep Method:	E300P		
Tech:	OJS				% Moisture:			
Analyst:	OJS		Date Prep:	01.02.18 16.30	Basis:	Wet Weight		
Seq Number:	3037498							
Parameter		Cas Number	Result RI	Uni	ts Analysis D	ate Flag Dil		

< 5.00

Chloride

16887-00-6

5.00

mg/kg 0

01.02.18 23.15

U

1





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id: SP #4 @ SUR Lab Sample Id: 572384-009	M Da	atrix: ate Collected:	Soil 12.28.17 10.40	Date Received:12.29.17 12.45 Sample Depth: 1 ft				
Analytical Method: Chloride by EPA 30 Tech: OJS Analyst: OJS)0	ate Pren.	01 02 18 16 30	Prep Method: % Moisture: Basis:	E300P Wet Weight			
Seq Number: 3037498		ate i rep.	01.02.110 10.00	2 45151				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.93	4.93	mg/kg	01.02.18 23.22	U	1

Analytical Method: TPH by SW801	15 Mod				P	rep Method: TX	1005P	
Tech: JUM					9	6 Moisture:		
Analyst: JUM		Date Pre	p: 01.03	.18 10.00	E	Basis: We	t Weight	
Seq Number: 3037559			•					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	01.04.18 00.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	01.04.18 00.37	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	01.04.18 00.37	U	1
Total TPH	PHC635	<15	15		mg/kg	01.04.18 00.37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	01.04.18 00.37		
o-Terphenyl		84-15-1	95	%	70-135	01.04.18 00.37		





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id:	SP #4 @ SUR		Matrix:	Soil		Date Received	1:12.29.17	12.45
Lab Sample Ic	l: 572384-009		Date Collecte	d: 12.28.17 10.40		Sample Depth	:1 ft	
Analytical Me	thod: BTEX by EPA 802	1B				Prep Method:	SW5030H	3
Tech:	ALJ					% Moisture:		
Analyst:	ALJ		Date Prep:	01.02.18 16.00		Basis:	Wet Weig	ght
Seq Number:	3037402							
Parameter		Cas Number	Result D	т	Unite	Analysis D	oto Fla	a D

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	01.03.18 12.36	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	01.03.18 12.36	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	01.03.18 12.36	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	01.03.18 12.36	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	01.03.18 12.36	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	01.03.18 12.36	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	01.03.18 12.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	80-120	01.03.18 12.36		
1,4-Difluorobenzene		540-36-3	93	%	80-120	01.03.18 12.36		





TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 2H

Sample Id:	SP #4 @1'		Matrix:	Soil	Date Received	1:12.29.17 12.45		
Lab Sample Id: 572384-010			Date Collected	: 12.28.17 10.45	Sample Depth: 1 ft			
Analytical Me	thod: Chloride by EPA 30	00			Prep Method:	E300P		
Tech:	OJS				% Moisture:			
Analyst:	OJS		Date Prep:	01.02.18 16.30	Basis:	Wet Weight		
Seq Number:	3037498							
Parameter		Cas Number	Result RI	L Units	a Analysis D	ate Flag I	Dil	

Chloride

16887-00-6

<4.90 4.90

mg/kg

01.02.18 23.29

U

1



LABORATORIES

Flagging Criteria



Page 43 of 84

- 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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40-4280
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5 6





TRC Solutions, Inc

Canvasback 13 FED 2H

Analytical Method:	Chloride by EPA 30	0						Pi	rep Meth	od: E30	0P	
Seq Number:	3037498			Matrix:	Solid				Date Pr	ep: 01.0	02.18	
MB Sample Id:	7636857-1-BLK		LCS Sar	nple Id:	7636857-	1-BKS		LCS	D Sample	e Id: 763	6857-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	<5.00	250	241	96	247	99	90-110	2	20	mg/kg	01.02.18 20:07	

Analytical Method:	Chloride by	EPA 30	0						P	rep Metho	d: E30)0P	
Seq Number:	3037498]	Matrix:	Soil				Date Pre	p: 01.0	02.18	
Parent Sample Id:	572348-016			MS San	nple Id:	572348-01	6 S		MS	D Sample	Id: 572	348-016 SD	
Parameter	1	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride		54.9	249	297	97	316	105	90-110	6	20	mg/kg	01.02.18 20:28	

Analytical Method:	Chloride by EPA 3	00						Р	rep Meth	od: E30	00P	
Seq Number:	3037498			Matrix:	Soil				Date Pr	ep: 01.0	02.18	
Parent Sample Id:	572384-001		MS Sar	nple Id:	572384-00	01 S		MS	D Sample	e Id: 572	384-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	40.1	250	302	105	293	101	90-110	3	20	mg/kg	01.02.18 22:05	

Analytical Method:	od						F	Prep Method	l: TX	1005P			
Seq Number:	3037559				Matrix:	Solid				Date Prep	p: 01.0	03.18	
MB Sample Id:	7637042-1	-BLK		LCS Sar	nple Id:	7637042-	1-BKS		LCS	SD Sample	Id: 763	7042-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	1020	102	942	94	70-135	8	35	mg/kg	01.03.18 20:12	
Diesel Range Organics (DRO)	<15.0	1000	1040	104	1000	100	70-135	4	35	mg/kg	01.03.18 20:12	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Ree) LCS c Flag	D I g	Limits	Units	Analysis Date	
1-Chlorooctane		106		1	14		102		7	0-135	%	01.03.18 20:12	
o-Terphenyl		110		1	16		88		7	0-135	%	01.03.18 20:12	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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TRC Solutions, Inc

Canvasback 13 FED 2H

Analytical Method:	TPH by S	W8015 M	od						F	Prep Method	l: TX	1005P	
Seq Number:	3037897				Matrix:	Solid				Date Prep	p: 01.0	08.18	
MB Sample Id:	7637141-1	-BLK		LCS Sar	nple Id:	7637141-	1-BKS		LCS	SD Sample	Id: 763	7141-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	999	832	83	794	79	70-135	5	35	mg/kg	01.08.18 15:52	
Diesel Range Organics (DRO)	<15.0	999	866	87	823	82	70-135	5	35	mg/kg	01.08.18 15:52	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D I g	<i>limits</i>	Units	Analysis Date	
1-Chlorooctane		82		5	86		82		7	0-135	%	01.08.18 15:52	
o-Terphenyl		84			77		90		7	0-135	%	01.08.18 15:52	

Analytical Method:	TPH by SW	/8015 M	od						Р	rep Method	l: TX	1005P	
Seq Number:	3037559				Matrix:	Soil				Date Prep	p: 01.0	03.18	
Parent Sample Id:	572348-021			MS Sar	nple Id:	572348-02	21 S		MS	D Sample	ld: 572	348-021 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ns (GRO)	<15.0	1000	773	77	784	78	70-135	1	35	mg/kg	01.03.18 21:10	
Diesel Range Organics (I	DRO)	31.4	1000	832	80	836	80	70-135	0	35	mg/kg	01.03.18 21:10	
Surrogate				N %	/IS Rec	MS Flag	MSD %Ree	MSI c Flag) L g	limits	Units	Analysis Date	
l-Chlorooctane				1	09		110		7	0-135	%	01.03.18 21:10	
-Terphenyl		1	08		111		7	0-135	%	01.03.18 21:10			

TPH by SW	'8015 M	od						Р	rep Method	l: TX	1005P	
3037897				Matrix:	Soil				Date Prep	p: 01.0	08.18	
572801-001			MS San	nple Id:	572801-00	01 S		MS	D Sample	ld: 572	801-001 SD	
	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
ns (GRO)	<15.0	998	585	59	591	59	70-135	1	35	mg/kg	01.08.18 16:56	Х
Diesel Range Organics (DRO) <15.0 998			646	65	610	61	70-135	6	35	mg/kg	01.08.18 16:56	Х
			N %	1S Rec	MS Flag	MSD %Rec	MSE c Flag) L g	imits	Units	Analysis Date	
-Chlorooctane			-	77		77		7	0-135	%	01.08.18 16:56	
Terphenyl				17		75		7	0-135	%	01.08.18 16:56	
	TPH by SW 3037897 572801-001 ns (GRO) DRO)	TPH by SW8015 M 3037897 572801-001 Parent Result ns (GRO) <15.0 DRO) <15.0	Parent Spike Result Amount ns (GRO) <15.0	TPH by SW8015 Mod 3037897 572801-001 MS Sam Parent Result Spike Amount MS Result ns (GRO) <15.0	TPH by SW8015 Mod 3037897 Matrix: 572801-001 MS Sample Id: Parent Result Spike Amount MS MS ns (GRO) <15.0	TPH by SW8015 Mod 3037897 Matrix: Soil 572801-001 MS Sample Id: 572801-00 Parent Result Spike Amount MS MS MSD Result ns (GRO) <15.0	TPH by SW8015 Mod 3037897 Matrix: Soil 572801-001 MS Sample Id: 572801-001 S Parent Result Spike Amount MS MS MSD MSD ns (GRO) <15.0	TPH by SW8015 Mod 3037897 Matrix: Soil 572801-001 MS Sample Id: 572801-001 S Parent Result Spike Amount MS Result MS Result MSD Result MSD %Rec ns (GRO) <15.0	TPH by SW8015 Mod Matrix: Soil P 3037897 Matrix: Soil Soil Soil 572801-001 MS Sample Id: 572801-001 S MS Parent Result Spike Amount MS MS MSD Result MSD %Rec Limits %RPD ns (GR0) <15.0	Prep Method 3037897 Matrix: Soil Date Prep 572801-001 MS Sample Id: 572801-001 S MSD sample Id: Parent Result Spike Amount MS MS MSD Result MSD Result	Prep Method: TX 3037897 3037897 Matrix: Soil Date Prep: 01.0 572801-001 MS Sample Id: 572801-001 S MSD Sample Id: 572801-001 S 572 Parent Result Spike Amount MS MS MSD Result MSD Result MSD %Rec Limits %RPD RPD Limit Units ns (GR0) <15.0	TPH by SW8015 Mod Prep Method: TX1005P 3037897 Matrix: Soil Date Prep: 01.08.18 572801-001 MS Sample Id 572801-001 S MSD Sample Id 572801-001 SD MSD Sample Id 572801-001 SD Parent Result Spike Amount MS Result MS %Result MSD Result MSD %Res Limits %RPD RPD Limit U-its Analysis Date ns (GRO) <15.0

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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TRC Solutions, Inc

Canvasback 13 FED 2H

Analytical Method:	BTEX by EPA 8021	B]	Prep Metho	d: SW	5030B	
Seq Number:	3037402		Ν	Matrix:	Solid				Date Pre	p: 01.0	02.18	
MB Sample Id:	7636912-1-BLK		LCS Sam	ple Id:	7636912-	1-BKS		LC	SD Sample	Id: 763	6912-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0760	76	0.0750	75	70-130	1	35	mg/kg	01.02.18 22:59	
Toluene	< 0.00200	0.100	0.0755	76	0.0763	76	70-130	1	35	mg/kg	01.02.18 22:59	
Ethylbenzene	< 0.00200	0.100	0.0895	90	0.0882	88	71-129	1	35	mg/kg	01.02.18 22:59	
m,p-Xylenes	< 0.00401	0.200	0.174	87	0.171	86	70-135	2	35	mg/kg	01.02.18 22:59	
o-Xylene	< 0.00200	0.100	0.0863	86	0.0851	85	71-133	1	35	mg/kg	01.02.18 22:59	
Surrogate	MB %Rec	MB Flag	L(%I	CS Rec	LCS Flag	LCSE %Rec) LCS c Flag	D] ;	Limits	Units	Analysis Date	
1,4-Difluorobenzene	92		11	16		115		8	30-120	%	01.02.18 22:59	
4-Bromofluorobenzene	85		12	20		109		8	30-120	%	01.02.18 22:59	

Analytical Method:	BTEX by EPA 802	1B							Prep Meth	od: SW	5030B	
Seq Number:	3037402			Matrix:	Soil				Date Pr	ep: 01.0	02.18	
Parent Sample Id:	572348-015		MS Sar	nple Id:	572348-0	15 S		М	SD Sample	e Id: 572	348-015 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0450	45	0.0464	46	70-130	3	35	mg/kg	01.02.18 23:37	Х
Toluene	< 0.00199	0.0996	0.0439	44	0.0433	43	70-130	1	35	mg/kg	01.02.18 23:37	Х
Ethylbenzene	< 0.00199	0.0996	0.0515	52	0.0492	49	71-129	5	35	mg/kg	01.02.18 23:37	Х
m,p-Xylenes	< 0.00398	0.199	0.101	51	0.0936	47	70-135	8	35	mg/kg	01.02.18 23:37	Х
o-Xylene	< 0.00199	0.0996	0.0502	50	0.0484	48	71-133	4	35	mg/kg	01.02.18 23:37	Х
Surrogate			N %	/IS Rec	MS Flag	MSD %Re	o MSI c Flag) : g	Limits	Units	Analysis Date	
1,4-Difluorobenzene		ç	97		102		;	80-120	%	01.02.18 23:37		
4-Bromofluorobenzene			Ģ	93		98		:	80-120	%	01.02.18 23:37	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Dallas Texas (214-902-0300) Stafford, Texas (281-240-4200)

CHAIN OF CUSTODY

Page 1 Of

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

Phoenix, Arizona (480-355-0900)

Ralinnuiehad hu-	Relinquished by: Date trime:	1 Relinquished by Semipherical Control Internet	SAMPLE CUSTODY MUST BE DOCUM	TAT Starts Day received by Lab, if received by 5:00 pm	3 Day EMERGENCY	2 Day EMERGENCY X Contract TAT	Next Day EMERGENCY	Same Day TAT 6 Day TAT	Turnaround Time (Business days)	10 SP #4 @ 1' 1228	9 SP #4 @ SUR 0 12/28	8 WEST @ 1' 1228	7 SOUTH @ 1' 1228	EAST @ 1' 12/28	5 NORTH @ 1' 1228	4 SP #2 @ 3' 12/28	3 SP #2 @ 2' 12/28	2 SP #2 @ 1' 12/28	1 SP #2 @ SUR 0 1228	No. Field ID / Point of Collection Sample Depth Date	Colle	amplers's Name Joel Lowry	Joel Lowry Invoice		imail: Phone No: Invoice	2057 Commerce Drive Eddy C fildland, TX 79703	ompany Address: Project	Canva Project Project Canva Canva	Client / Reporting Information		
Received By:	Received By:	155 1 Brittamu(DX	MENTED BELOW EACH TIME SAMPLES CHANGE POSSI		TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Data Deliverable Information	9/2017 10:45 s 1	9/2017 10:40 s 1	3/2017 10:35 s 1	9/2017 10:30 s 1	3/2017 10:25 s 1	3/2017 10:20 s 1	3/2017 10:15 s 1	3/2017 10:10 s 1	3/2017 10:05 s 1	3/2017 10:00 s 1	Time Matrix bottles HCI NaOH/Zn Accetate	ection Number o		e:		e To: 6 Beckv Haskell	County, New Mexico	t Location:	asback 13 Fed 2H	Project Information		www.xenco.com
Custody Seal # Preserve	Relinquished By: Dat	Relinquished By: Dat 2 B COX /0	SESSION, INCLUDING COURIER DELIVERY		0	UST / RG -411	TRRP Level IV	Level IV (Full Data Pkg /raw data)	n	×	X X V		×	×	×	×	×	×	X X X	H2SO4 NaOH NaHSO4 MEOH NONE CLORID TPH BTFY	of preserved bottles	:30 7 (. 8 0		n	ť k	t					Xenco Quote #
ad where applicable On Ice Cooler Temp.	te Time: Received By:	2 Charlen 12 45 2 Manual &		FED-EX / UPS: Tracking #				email: RHaskell@concho.com Jlowry@trcsolut	Notes:		Corrected Temp:			Temp: 2.5																Analytical Information	Xenco Job # S 25
Thermo. Corr. Factor	00:21	L1.20.1 - 1+V						ions.com			2	7 7		IR ID.R-8						Field Comments	A = Air	WW= Waste Water	MI = Wipe	OW =Ocean/Sea Water	SW = Surface water	DW = Drinking Water P = Product	GW =Ground Water	W = Water S = Soil/Sed/Solid		Matrix Codes	h X

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Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be inviced at \$5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

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Work Order #: 572384

XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Date/ Time Received: 12/29/2017 12:45:00 PM

BORATORIES

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

Temperature Measuring device used : R8

Samp	ole Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.7	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ co	oler? Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ rec	ceived? Yes	
#10 Chain of Custody agrees with sample labels/m	atrix? 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)?	Yes	
#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: Hung Moah Kelsey Brooks

Date: 01/02/2018

Checklist reviewed by:

Date:



Project Id: Contact:

Contact:Joel LowryProject Location:Lea Co, NM

Certificate of Analysis Summary 574261

TRC Solutions, Inc, Midland, TX

Project Name: Canvasback 13 Federal #002H



Date Received in Lab:Mon Jan-22-18 03:45 pmReport Date:29-JAN-18Project Manager:Kelsey Brooks

	Lab Id:	574261-0	01	574261-0	02	574261-0	03		
Analysis Paguested	Field Id:	SP-1 @	1'	SP-1 @	2'	SP-1 @	3'		
Analysis Requested	Depth:	1'-		2'-		3'-			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jan-19-18 1	1:00	Jan-19-18 1	1:05	Jan-19-18 1	1:10		
Chloride by EPA 300	Extracted:	Jan-25-18 1	5:00	Jan-25-18 1	5:00	Jan-25-18 1	5:00		
	Analyzed:	Jan-26-18 1	7:53	Jan-26-18 1	8:00	Jan-26-18 1	8:07		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		603	5.00	1330	25.0	153	4.98		

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

Huns Boah

Kelsey Brooks Project Manager

Analytical Report 574261

for TRC Solutions, Inc

Project Manager: Joel Lowry

Canvasback 13 Federal #002H

29-JAN-18

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 10:57:44 AM



29-JAN-18

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **574261** Canvasback 13 Federal #002H Project Address: Lea Co, NM

Joel Lowry:

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) 574261. 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. 574261 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,

Huns hoah

Kelsey Brooks Project Manager

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TRC Solutions, Inc, Midland, TX

Canvasback 13 Federal #002H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 1'	S	01-19-18 11:00	1'	574261-001
SP-1 @ 2'	S	01-19-18 11:05	2'	574261-002
SP-1 @ 3'	S	01-19-18 11:10	3'	574261-003



CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Canvasback 13 Federal #002H

Project ID: Work Order Number(s): 574261 Report Date: 29-JAN-18 Date Received: 01/22/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





TRC Solutions, Inc, Midland, TX

Canvasback 13 Federal #002H

Sample Id: SP-1 @ 1' Lab Sample Id: 574261-001		Matrix: Date Collecte	Soil d: 01.19.18 11.00		Date Received Sample Depth	l:01.22.18 1: : 1'	5.45
Analytical Method: Chloride by Tech: OJS Analyst: OJS	EPA 300	Date Prep:	01.25.18 15.00		Prep Method: % Moisture: Basis:	E300P Wet Weigh	ıt
Seq Number: 3039480							
Parameter	Cas Number	Result R	RL	Units	Analysis D	ate Flag	Dil

603

Chloride

16887-00-6

5.00

mg/kg

01.26.18 17.53

1





5

TRC Solutions, Inc, Midland, TX

Canvasback 13 Federal #002H

Sample Id:	SP-1 @ 2'		Matrix:	Soil		Date Received	1:01.22	2.18 15.45	
Lab Sample Id	: 574261-002		Date Collect	ed: 01.19.18 11.05		Sample Depth	:2'		
Analytical Me	thod: Chloride by EPA 30	00				Prep Method:	E300	P	
Tech:	OJS					% Moisture:			
Analyst:	OJS		Date Prep:	01.25.18 15.00		Basis:	Wet V	Weight	
Seq Number:	3039480								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil

Chloride

16887-00-6 **1330**

25.0

mg/kg

01.26.18 18.00





1

TRC Solutions, Inc, Midland, TX

Canvasback 13 Federal #002H

Sample Id: SP-1 @ 3'		Matrix:	Soil		Date Received	1:01.22.18 15.4	45
Lab Sample Id: 574261-003		Date Collecte	ed: 01.19.18 11.10		Sample Depth	:3'	
Analytical Method: Chloride by EPA	300				Prep Method:	E300P	
Tech: OJS					% Moisture:		
Analyst: OJS		Date Prep:	01.25.18 15.00		Basis:	Wet Weight	
Seq Number: 3039480							
Parameter	Cas Number	Result I	RL	Units	Analysis Da	ate Flag	Dil

Chloride

16887-00-6 **153**

4.98

mg/kg

01.26.18 18.07



LABORATORIES

Flagging Criteria



Page 57 of 84

- 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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	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	





TRC Solutions, Inc

Canvasback 13 Federal #002H

Analytical Method:	Chloride by EPA 30	0						Pre	p Method	l: E30)P	
Seq Number:	3039480]	Matrix:	Solid				Date Prep	b: 01.2	5.18	
MB Sample Id:	7638082-1-BLK		LCS San	nple Id:	7638082-1	-BKS		LCSD	Sample I	ld: 7638	3082-1-BSD	
Parameter	MB	Snike	LCS	LCS	LCSD	LCSD	Limits	% RPD R	PD Limit	Unite	Analysis	
I ul ul ul lovol	Result	Amount	Result	%Rec	Result	%Rec	Linits			Onits	Date	Flag

Analytical Method:	Chloride by	EPA 30	0						Pr	ep Metho	od: E30	0P	
Seq Number:	3039480				Matrix:	Soil				Date Pre	ep: 01.2	5.18	
Parent Sample Id:	573940-001			MS San	nple Id:	573940-00	01 S		MSI	O Sample	Id: 573	940-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride		< 5.00	250	257	103	260	104	90-110	1	20	mg/kg	01.26.18 15:48	

Analytical Method:	Chloride by EPA 30	0						Pr	ep Metho	d: E30)0P	
Seq Number:	3039480			Matrix:	Soil				Date Pre	ep: 01.	25.18	
Parent Sample Id:	574260-005		MS San	nple Id:	574260-00)5 S		MS	D Sample	Id: 574	260-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	94.3	255	350	100	349	100	90-110	0	20	mg/kg	01.26.18 17:26	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

BORATORIES 0 0

CHAIN OF CUSTODY Page 1 Of 1

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A = Air				8021	le E :	015 N		ttles	red bo	reserv	r of pi	lumbe	7	_			Collection				1		:
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SL = Sludge OW =Ocean/Sea Water															askell	S/O Becky Ha	G Operating (6	432-466-4450	.com s.com	lowry@trcsolutions conder@trcsolution		
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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 01/22/2018 03:45:00 PM Temperature Measuring device used : R8 Work Order #: 574261 Sample Receipt Checklist #1 *Temperature of cooler(s)? 1.3 #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#:

Date: 01/23/2018

Comments

Checklist completed by: Connie Hernandez Checklist reviewed by: Kelsey Brooks

Date: 01/23/2018

for TRC Solutions, Inc

Project Manager: Joel Lowry

Canvasback 13 Fed #002H

13-APR-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), 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 (T104704400-18-14) 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) Xenco-Atlanta (LELAP Lab ID #04176) Received by OCD: 12/16/2022 10:57:44 AM



13-APR-18

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **581742** Canvasback 13 Fed #002H Project Address: Eddy Co. NM

Joel Lowry:

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) 581742. 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.

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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,

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Kelsey Brooks Project Manager

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TRC Solutions, Inc, Midland, TX

Canvasback 13 Fed #002H

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	04-04-18 09:00	3	581742-001
S	04-04-18 09:10	1 1/2	581742-002
S	04-04-18 09:20	1 1/2	581742-003
S	04-04-18 09:30	1 1/2	581742-004
S	04-04-18 09:40	1 1/2	581742-005
	Matrix S S S S S	MatrixDate CollectedS04-04-18 09:00S04-04-18 09:10S04-04-18 09:20S04-04-18 09:30S04-04-18 09:30	MatrixDate CollectedSample DepthS04-04-18 09:003S04-04-18 09:101 1/2S04-04-18 09:201 1/2S04-04-18 09:301 1/2S04-04-18 09:401 1/2



ORATORIES

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Canvasback 13 Fed #002H

Project ID: Work Order Number(s): 581742

13-APR-18 Report Date: Date Received: 04/06/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3046275 DRO-ORO By SW8015B Surrogate Tricosane recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7642346-1-BKS,7642346-1-BSD.

Batch: LBA-3046326 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id: Contact:

Contact:Joel LowryProject Location:Eddy Co. NM

Certificate of Analysis Summary 581742

TRC Solutions, Inc, Midland, TX Project Name: Canvasback 13 Fed #002H

Date Received in Lab:Fri Apr-06-18 04:40 pmReport Date:13-APR-18Project Manager:Kelsey Brooks

	Lab Id:	581742-0	001	581742-0	002	581742-0	003	581742-0	004	581742-0	005	
Are alugia De arcente d	Field Id:	FL-@ 3	3'	ESW		WSW	r	SSW		NSW		
Analysis Kequesiea	Depth:	3-		1 1/2-		1 1/2-		1 1/2-		1 1/2-		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Apr-04-18	09:00	Apr-04-18	09:10	Apr-04-18	09:20	Apr-04-18	09:30	Apr-04-18 (09:40	
BTEX by EPA 8021B	Extracted:	Apr-09-18	12:00	Apr-09-18	12:00	Apr-09-18	12:00	Apr-09-18	12:00	Apr-09-18	12:00	
	Analyzed:	Apr-10-18	21:37	Apr-11-18	00:19	Apr-11-18	00:46	Apr-11-18	01:13	Apr-11-18 (01:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		<0.0190	0.0190	<0.0189	0.0189	<0.0196	0.0196	<0.0186	0.0186	<0.0194	0.0194	
Toluene		< 0.0190	0.0190	< 0.0189	0.0189	< 0.0196	0.0196	< 0.0186	0.0186	< 0.0194	0.0194	
Ethylbenzene		< 0.0190	0.0190	< 0.0189	0.0189	< 0.0196	0.0196	< 0.0186	0.0186	< 0.0194	0.0194	
m,p-Xylenes		< 0.0381	0.0381	< 0.0377	0.0377	< 0.0393	0.0393	< 0.0372	0.0372	< 0.0388	0.0388	
o-Xylene		< 0.0190	0.0190	< 0.0189	0.0189	< 0.0196	0.0196	< 0.0186	0.0186	< 0.0194	0.0194	
Total Xylenes		< 0.019	0.019	< 0.0189	0.0189	< 0.0196	0.0196	< 0.0186	0.0186	< 0.0194	0.0194	
Total BTEX		< 0.019	0.019	< 0.0189	0.0189	< 0.0196	0.0196	< 0.0186	0.0186	< 0.0194	0.0194	
Chloride by EPA 300	Extracted:	Apr-10-18	10:30	Apr-10-18	10:30	Apr-10-18	10:30	Apr-10-18	10:30	Apr-10-18	10:30	
	Analyzed:	Apr-10-18	22:27	Apr-10-18	23:05	Apr-10-18	23:17	Apr-10-18	23:29	Apr-10-182	23:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		170	50.0	101	25.0	124	25.0	249	50.0	<25.0	25.0	
DRO-ORO By SW8015B	Extracted:	Apr-10-18	11:35	Apr-10-18	11:35	Apr-10-18	11:35	Apr-10-18	11:35	Apr-10-18	11:35	
	Analyzed:	Apr-10-18	15:11	Apr-10-18	16:56	Apr-10-18	17:31	Apr-10-18	18:06	Apr-10-18	18:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Diesel Range Organics (DRO)		<25.2	25.2	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0	
Oil Range Hydrocarbons (ORO)		<25.2	25.2	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0	
TPH GRO by EPA 8015 Mod.	Extracted:	Apr-09-18	12:00	Apr-09-18	12:00	Apr-09-18	12:00	Apr-09-18	12:00	Apr-09-18	12:00	
	Analyzed:	Apr-10-18	21:37	Apr-11-18	00:19	Apr-11-18	00:46	Apr-11-18	01:13	Apr-11-18 (01:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
TPH-GRO		<3.81	3.81	<3.77	3.77	<3.93	3.93	<3.72	3.72	<3.88	3.88	

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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Huns Roah

Kelsey Brooks Project Manager

Page 5 of 18



Flagging Criteria

Page 66 of 84

- 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 LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Project Name: Canvasback 13 Fed #002H

Work Ord	ers: 58174	2, Sample: 581742-001 / SMP	Bate	Project ID:	Soil				
Units:	nits: $m\sigma/k\sigma$ Date Analyzed: $04/10/18$ 15:11				FCOVEDV	STUDV			
	ing ng		SURROGATE RECOVERT STUDY						
	DRO-O	ORO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Tricosane			10.7	10.1	106	65-144			
n-Triacontane			8.97	10.1	89	46-152			
Lab Batch #:	3046275	Sample: 581742-002 / SMP	Batcl	h: 1 Matrix:	Soil	11			
Units:	mg/kg	Date Analyzed: 04/10/18 16:56	SU	RROGATE R	ECOVERY S	STUDY			
	DRO-O	ORO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Tricosane		Analytes	12.1	0.00	121	65 144			
n-Triacontane			0.00	9.99	121	46 152			
Lah Batch #•	3046275	Sample: 581742-003 / SMP	9.99 Ratel	9.99 h• 1 Matrix:	Soil	40-132			
Lab Datch π .	mg/kg	Date Applyzed: 04/10/18 17:31							
Omts.	iiig/ kg	Date Analyzeu. 04/10/10 17.51	50	RROGATE R	STUDY				
	DRO-O	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes							
Tricosane			9.85	9.98	99	65-144			
n-Triacontane			9.26	9.98	93	46-152			
Lab Batch #:	3046275	Sample: 581742-004 / SMP	Batcl	h: 1 Matrix:	: Soil				
Units:	mg/kg	Date Analyzed: 04/10/18 18:06	SU	RROGATE R	ECOVERY S	STUDY			
	DRO-O	PRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Tricosane			9.00	9.96	90	65-144			
n-Triacontane			9.67	9.96	97	46-152			
Lab Batch #:	3046275	Sample: 581742-005 / SMP	Batcl	h: 1 Matrix:	: Soil				
Units:	mg/kg	Date Analyzed: 04/10/18 18:41	SURROGATE RECOVERY STUDY						
	DRO-O	ORO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Tricosane			11.7	10.0	117	65-144			
n-Triacontane			9.75	10.0	98	46-152			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Canvasback 13 Fed #002H

Work Orders : 581742, Lab Batch #: 3046326 Sample: 581742-001 / SMP			Batch	Project ID: n: 1 Matrix	: Soil			
Units: mg/kg Date Analyzed: 04/10/18 21:37 SURROGATE RECOVERY ST								
	BTEX by EPA 8021B			True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
4-Bromoflu	uorobenzene		0.109	0.100	109	68-120		
a,a,a-Triflu	orotoluene		1.98	1.90	104	71-121		
Lab Batch	h #: 3046330	Sample: 581742-001 / SMP	Batch	n: 1 Matrix	: Soil			
Units:	mg/kg	Date Analyzed: 04/10/18 21:37	SU	RROGATE R	ECOVERY	STUDY		
	TPH GRO) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
4-Bromoflu	uorobenzene		0.104	0.100	104	76-123		
a,a,a-Triflu	orotoluene		1.81	1.90	95	69-120		
Lab Batch	n #: 3046326	Sample: 581742-002 / SMP	Batch	n: 1 Matrix	: Soil			
Units:	mg/kg	Date Analyzed: 04/11/18 00:19	SU	RROGATE R	ECOVERY	STUDY		
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
4-Bromoflu	uorobenzene		0.108	0.100	108	68-120		
a.a.a-Triflu	orotoluene		1.90	1.89	101	71-121		
Lab Batch	n #: 3046330	Sample: 581742-002 / SMP	Batch	n: 1 Matrix	: Soil	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Units:	mg/kg	Date Analyzed: 04/11/18 00:19	SURROGATE RECOVERY STUDY					
	TPH GRO) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
4-Bromoflu	uorobenzene		0.102	0.100	102	76-123		
a,a,a-Triflu	orotoluene		1.60	1.89	85	69-120		
Lab Batch	n #: 3046326	Sample: 581742-003 / SMP	Batch	n: 1 Matrix	: Soil			
Units:	mg/kg	Date Analyzed: 04/11/18 00:46	SU	RROGATE R	ECOVERY	STUDY		
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
4-Bromoflu	uorobenzene		0.107	0.100	107	68-120		
a,a,a-Triflu	orotoluene		2.04	1.96	104	71-121		

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Canvasback 13 Fed #002H

Work Orders : 581742, Lab Batch #: 3046330 Sample: 581742-003 / SMP			Batch	Project ID: 1 Matrix:	: Soil				
Units:	mg/kg	Date Analyzed: 04/11/18 00:46	SURROGATE RECOVERY STUDY						
	TPH GRO) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
4-Bromoflu	orobenzene		0.0989	0.100	99	76-123			
a,a,a-Trifluo	orotoluene		1.67	1.96	85	69-120			
Lab Batch	#: 3046326	Sample: 581742-004 / SMP	Batch:	: 1 Matrix:	: Soil				
Units:	mg/kg	Date Analyzed: 04/11/18 01:13	SUR	RROGATE R	ECOVERY	STUDY			
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
4-Bromoflu	orobenzene		0.106	0.100	106	68-120			
a.a.a-Trifluo	protoluene		1.86	1.86	100	71-121			
Lab Batch	#: 3046330	Sample: 581742-004 / SMP	Batch:	: 1 Matrix:	: Soil	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Units:	mg/kg	Date Analyzed: 04/11/18 01:13	SUR	ROGATE R	ECOVERY	STUDY			
	TPH GRO) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
4 Dromofly	anchangana	Anarytes	0.000	0.100	00	76 100			
4-BIOIIIOIIu	rotoluono		0.0986	0.100	99	/0-123			
I ab Batch	#• 3046326	Sample: 581742-005 / SMP	1.01 Retche	1.00	• Soil	09-120			
Lab Daten	π. 5040520 mg/kg	Dete Applyzed: $04/11/18 01/40$							
Units:	iiig/Kg	Date Analyzeu: 04/11/18 01.40	SURROGATE RECOVERY STUDY						
	BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
4-Bromoflu	orobenzene		0.107	0.100	107	68-120			
a,a,a-Trifluc	orotoluene		1.99	1.94	103	71-121			
Lab Batch	#: 3046330	Sample: 581742-005 / SMP	Batch:	: 1 Matrix:	: Soil				
Units:	mg/kg	Date Analyzed: 04/11/18 01:40	SUR	RROGATE R	ECOVERYS	STUDY			
	TPH GRO) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
4-Bromoflu	orobenzene		0.0993	0.100	99	76-123			
a,a,a-Trifluo	orotoluene		1.83	1.94	94	69-120			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Canvasback 13 Fed #002H

Work Orders : 581742, Lab Batch #: 3046275 Sample: 7642346-1-BLK /			Project ID: BLK Batch: 1 Matrix: Solid						
Units:	mg/kg	Date Analyzed: 04/10/18 13:24	SU	RROGATE R	roject ID: Matrix: SolidGATE RECOVERY STUDYTrue mount [B]Recovery 				
	DRO-C	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
Tricosane			10.5	10.0	105	65-144			
n-Triaconta	ine		12.8	10.0	128	46-152			
Lab Batch	#: 3046326	Sample: 7642254-1-BLK /	BLK Batch	n: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 04/10/18 21:10	SU	RROGATE R	ECOVERY S	STUDY			
	втех	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
4-Bromoflu	iorobenzene	•	0.0966	0.100	97	68-120			
a,a,a-Trifluo	orotoluene		1.94	2.00	97	71-121			
Lab Batch	#: 3046330	Sample: 7642259-1-BLK /	BLK Batch	n: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 04/10/18 21:10	SU	RROGATE R	ECOVERY	STUDY			
	TPH GRO) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes							
4-Bromoflu	lorobenzene		0.0933	0.100	93	76-123			
a,a,a-Trifluo	orotoluene		2.24	2.00	112	69-120			
Lab Batch	#: 3046275	Sample: /642346-1-BKS/	BKS Batch	n: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 04/10/18 14:00	SU	RROGATE R	ECOVERY	STUDY			
	DRO-C	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Tricosane			16.7	10.0	167	65-144	**		
n-Triaconta	ine		11.6	10.0	116	46-152			
Lab Batch	#: 3046326	Sample: 7642254-1-BKS /	BKS Batch	n: 1 Matrix	: Solid				
Units:	mg/kg	Date Analyzed: 04/10/18 18:27	SU	RROGATE R	ECOVERY S	STUDY			
	втех	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
4-Bromoflu	orobenzene		0.0955	0.100	96	68-120			
a,a,a-Trifluo	orotoluene		1.69	2.00	85	71-121			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Canvasback 13 Fed #002H

Work Oi Lab Batch	r ders : 58174 #: 3046330	2, Sample: 7642259-1-BKS / 1	BKS Batch	Project ID a: 1 Matrix	: Solid			
Units:	mg/kg	Date Analyzed: 04/10/18 19:22	SU	RROGATE R	ECOVERY S	STUDY		
	TPH GRO) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
4-Bromoflu	orobenzene		0.0971	0.100	97	76-123		
a,a,a-Triflu	orotoluene		1.98	2.00	99	69-120		
Lab Batch	#: 3046275	Sample: 7642346-1-BSD / 1	BSD Batch	a: 1 Matrix	: Solid			
Units:	mg/kg	Date Analyzed: 04/10/18 14:35	SU	RROGATE R	ECOVERY	STUDY		
	DRO-O	PRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Tricosane			15.7	10.0	157	65-144	**	
n-Triaconta	ine		11.8	10.0	118	46-152		
Lab Batch	#: 3046326	Sample: 7642254-1-BSD / 1	BSD Batch	1: 1 Matrix	: Solid			
Units:	mg/kg	Date Analyzed: 04/10/18 18:54	SU	RROGATE R	ECOVERY	STUDY		
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
4-Bromoflu	orobenzene		0.0953	0.100	95	68-120		
a,a,a-Triflu	orotoluene		1.78	2.00	89	71-121		
Lab Batch	#: 3046330	Sample: 7642259-1-BSD / 1	BSD Batch	a: 1 Matrix	: Solid			
Units:	mg/kg	Date Analyzed: 04/10/18 19:49	SURROGATE RECOVERY STUDY					
	TPH GRO) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
4-Bromoflu	orobenzene		0.0995	0.100	100	76-123		
a,a,a-Triflu	orotoluene		1.57	2.00	79	69-120		
Lab Batch	#: 3046275	Sample: 581742-001 S / MS	S Batch	n: 1 Matrix	: Soil			
Units:	mg/kg	Date Analyzed: 04/10/18 15:45	SU	RROGATE R	ECOVERYS	STUDY		
	DRO-O	PRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Tricosane			12.6	10.1	125	65-144		
n-Triaconta	ine		7.71	10.1	76	46-152		

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Canvasback 13 Fed #002H

Work Orders : 581742, Leb Batch #: 3046326 Sample: 581742 001 S / M			Project ID	: Soil				
Units: mg/kg Date Analyzed: 04/10/18 22:04 []		SURROGATE RECOVERV STUDV						
BTEX	X by EPA 8021B	Amount Found	True Amount		Control Limits	Flags		
		[A]	[B]	%R	%R			
	Analytes							
orobenzene		0.103	0.100	103	68-120			
orotoluene		1.79	1.94	92	71-121			
#: 3046330	Sample: 581742-001 S / MS	S Batcl	h: 1 Matrix	: Soil				
mg/kg	Date Analyzed: 04/10/18 22:57	SU	RROGATE R	ECOVERY	STUDY			
TPH GRO) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Anarytes	0.104	0.100	104	76.100			
orobenzene		0.104	0.100	104	76-123			
#• 2046275	Samples 581742 001 SD / N	1.00 (SD Batal	1.98	81 	69-120			
#: 3040273	Sample: 381742-001 SD/ M	ASD Batch		.: 5011				
mg/kg	Date Analyzed: 04/10/18 10:21	SU	RROGATE R	ECOVERY S	STUDY			
DRO-O	PRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
		12.3	10.0	123	65-144			
ne		8.97	10.0	90	46-152			
#: 3046326	Sample: 581742-001 SD / N	ASD Batch	h: 1 Matrix	: Soil				
mg/kg	Date Analyzed: 04/10/18 22:31	SU	RROGATE R	ECOVERY S	STUDY			
ВТЕХ	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
orobenzene		0.104	0.100	104	68-120			
orotoluene		1.82	1.88	97	71-121			
#: 3046330	Sample: 581742-001 SD / N	ASD Batel	h: 1 Matrix	: Soil				
mg/kg	Date Analyzed: 04/10/18 23:25	SU	RROGATE R	ECOVERY	STUDY			
TPH GRC) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
orobenzene	-	0.105	0.100	105	76-123			
a a a Trifluorotoluono			1					
	ders : 58174 #: 3046326 mg/kg BTEX probenzene rotoluene #: 3046330 mg/kg TPH GRC probenzene rotoluene #: 3046275 mg/kg DRO-O ne #: 3046326 mg/kg BTEX probenzene rotoluene #: 3046326 mg/kg BTEX	ders : 581742, #: 3046326 Sample: 581742-001 S / MS mg/kg Date Analyzed: 04/10/18 22:04 BTEX by EPA 8021B Analytes robenzene rotoluene #: 3046330 Sample: 581742-001 S / MS mg/kg Date Analyzed: 04/10/18 22:57 TPH GRO by EPA 8015 Mod. Analytes robenzene rotoluene #: 3046275 Sample: 581742-001 SD / N mg/kg Date Analyzed: 04/10/18 16:21 DRO-ORO By SW8015B Analytes ne #: 3046326 Sample: 581742-001 SD / N mg/kg Date Analyzed: 04/10/18 22:31 BTEX by EPA 8021B Analytes protoluene #: 3046330 Sample: 581742-001 SD / N mg/kg Date Analyzed: 04/10/18 22:31 BTEX by EPA 8021B Analytes protoluene #: 3046330 Sample: 581742-001 SD / N mg/kg Date Analyzed: 04/10/18 22:31 BTEX by EPA 8021B Analytes protoluene #: 3046330 Sample: 581742-001 SD / N mg/kg Date Analyzed: 04/10/18 23:25 TPH GRO by EPA 8015 Mod. Analytes probenzene	ders : 581742, #: 3046326 Sample: 581742-001 S / MS Batel mg/kg Date Analyzed: 04/10/18 22:04 SU BTEX by EPA 8021B Amount Found [A] Analytes 0.103 rotoluene 0.103 rotoluene 0.109 #: 3046330 Sample: 581742-001 S / MS Batel mg/kg Date Analyzed: 04/10/18 22:57 SU TPH GRO by EPA 8015 Mod. Amount Found [A] Analytes 0.104 rotoluene 0.104 found [A] Analytes 0.104 rotoluene 0.104 rotolue	ders: 581742, Sample: Project ID #: 3046326 Sample: 581742-001 S / MS Batch: 1 Matrix mg/kg Date Analyzed: 04/10/18 22:04 SURROGATE R BTEX by EPA 8021B Amount Found [A] True Amount [B] Amount Found [A] True Amount [B] arobenzene 0.103 0.100 rotoluene 1.79 1.94 #: 3046330 Sample: 581742-001 S / MS Batch: 1 Matrix mg/kg Date Analyzed: 04/10/18 22:57 SURROGATE R TPH GRO by EPA 8015 Mod. Amount [A] True Amount [A] True Amount [B] arobenzene 0.104 0.100 rotoluene 1.60 1.98 #: 3046275 Sample: 581742-001 SD / MSD Batch: 1 Matrix mg/kg Date Analyzed: 04/10/18 16:21 SURROGATE R DRO-ORO By SW8015B Found [A] True Amount [B] I Matrix mg/kg Date Analyzed: 04/10/18 22:31 SURROGATE R BTEX by EPA 8021B Amount Found [A] <	ders : 581742, #: 3046326 Sample: 581742-001 S / MS Batch: 1 Matrix: Soil mg/kg Date Analyzed: 04/10/18 22:04 SURROGATE RECOVERY S BTEX by EPA 8021B Amount (A) True Anount (B) Recovery % R (D) ordonzene 0.103 0.100 103 ordonzene 0.103 0.100 103 ordonzene 1.79 1.94 92 #: 3046330 Sample: 581742-001 S / MS Batch: 1 Matrix: Soil mg/kg Date Analyzed: 04/10/18 22:57 SURROGATE RECOVERY S TPH GRO by EPA 8015 Mod. Amount Found True (B) Recovery % R (D) arobenzene 0.104 0.100 104 orobenzene 0.104 0.100 104 orobenzene 0.104 0.100 104 modeazene 0.104 0.100 104 moloutene 1.60 1.98 81 #: 3046275 Sample: 581742-001 SD / MSD Batch: 1 Matrix: Soil mg/kg Date Analyzed: 04/10/18 16:21 SURROGATE RECOVERY S Analytes 10.0 123 10.0 123 #: 3046326 Sample: 581742-001 SD / MSD Batch: 1 Matrix: Soil mg/kg	ders : 581742, #: 3046326 Sample: 581742-001 S / MS Batch: Batch: 1 1 Matrix: Soil mg/kg Date Analyzed: 04/10/18 22:04 SURROGATE RECOVERY STUDY BTEX by EPA 8021B Amount [A] Amount Found [A] True Amount [B] Recovery %[0] Control %[0] srobenzene 0.103 0.100 103 68-120 orotohaene 1.79 1.94 92 71-121 #: 3046330 Sample: 581742-001 S / MS Batch: 1 Matrix: Soil mg/kg Date Analyzed: 04/10/18 22:57 SURROGATE RECOVERY STUDY TPH GRO by EPA 8015 Mod. Amount [A] True Amount [B] Recovery [B] Control %[B] srobenzene 0.104 0.100 104 76-123 mg/kg Date Analyzed: 04/10/18 16:21 SURROGATE RECOVERY STUDY mg/kg Date Analyzed: 04/10/18 16:21 SURROGATE RECOVERY STUDY MG Date Analyzed: 04/10/18 16:21 SURROGATE RECOVERY STUDY MG Date Analyzed: 04/10/18 22:31 SURROGATE RECOVERY STUDY MG Date Analyzed: 04/10/18 22:31 SURROGATE RECOVERY STUD		

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B


BS / BSD Recoveries



Page 73 of 84

.

Project Name: Canvasback 13 Fed #002H

Work Order	:#: 581742							Proj	ect ID:					
Analyst:	MIT	D	ate Prepar	ed: 04/09/20	18	Date Analyzed: 04/10/2018								
Lab Batch ID	: 3046326 Sample: 7642254	-1-BKS	KS Batch #: 1 Matrix: Solid											
Units:	mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analy	ytes		[B]	[C]		[E]	Kesuit [F]	[G]						
Benzene		< 0.0200	2.00	1.92	96	2.00	1.93	97	1	55-120	20			
Toluene		< 0.0200	2.00	1.93	97	2.00	1.96	98	2	77-120	20			
Ethylbenz	zene	< 0.0200	2.00	1.95	98	2.00	2.00	100	3	77-120	20			
m,p-Xyler	nes	< 0.0400	4.00	3.92	98	4.00	4.01	100	2	78-120	20			
o-Xylene		< 0.0200	2.00	1.93	97	2.00	1.98	99	3	78-120	20			
Analyst:	RNL	D	ate Prepar	red: 04/10/20	18	*		Date A	nalyzed: (04/10/2018				
Lab Batch ID	: 3046397 Sample: 7642452	-1-BKS	Bate	h #: 1					Matrix: S	Solid				
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	DY			
Analy	Chloride by EPA 300 ytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Chloride		<25.0	250	259	104	250	254	102	2	90-110	20			

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Page 74 of 84

Project Name: Canvasback 13 Fed #002H

Work Order #: 581742								Proj	ject ID:				
Analyst: PGM		D	ate Prepar	ed: 04/10/20	18			Date A	nalyzed:	04/10/2018			
Lab Batch ID: 3046275	Sample: 7642346-1-B	3KS	Batc	h #: 1					Matrix:	Solid			
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
DRO-ORO By	SW8015B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Posult [F]	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes			[D]	[C]	[D]	[E]	Kesuit [F]	[G]					
Diesel Range Organics (DRO)		<25.0	100	119	119	100	114	114	4	63-139	20		
Analyst: MIT		D	ate Prepar	red: 04/09/20	18			Date A	nalyzed: (04/10/2018			
Lab Batch ID: 3046330	Sample: 7642259-1-B	BKS	Batc	h #: 1					Matrix:	Solid			
Units: mg/kg			BLAN	K /BLANK	SPIKE /]	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY		
TPH GRO by EP	A 8015 Mod. s	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
		<4.00	20.0	10.2	06	20.0	20.7	104	0	25.120	20		
		<4.00	20.0	19.2	90	20.0	20.7	104	ð	33-129	20		

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

	Project N	ame:	Canvasbac	k 13 F	'ed #00	2H							
Work Order # :	581742						Project II):					
Lab Batch ID:	3046326	QC- Sample ID:	581742	-001 S	Ba	tch #:	1 Matrix	x: Soil					
Date Analyzed:	04/10/2018	Date Prepared:	04/09/2	018	An	nalyst: 1	MIT						
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
	BTEX by EPA 8021B	Parent Sample Besult	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag	
	Analytes	[A]	[B]	[C]	[D]	[E]	Kesunt [F]	[G]	70	70K	70KF D		
Benzene		<0.0194	1.94	1.76	91	1.88	1.70	90	3	54-120	25		
Toluene		< 0.0194	1.94	1.79	92	1.88	1.77	94	1	57-120	25		
Ethylbenzene		<0.0194	1.94	1.91	98	1.88	1.89	101	1	58-131	25		
m,p-Xylenes		<0.0388	3.88	3.83	99	3.75	3.78	101	1	62-124	25		
o-Xylene		<0.0194	1.94	1.89	97	1.88	1.87	99	1	62-124	25		
Lab Batch ID:	3046397	QC- Sample ID:	581742	-001 S	Ba	tch #:	1 Matrix	k: Soil					
Date Analyzed:	04/10/2018	Date Prepared:	04/10/2	018	An	nalyst: 1	RNL						
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	'RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY			
	Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Analytes	[A]	[B]	[-]	[D]	[E]	[-]	[G]		,			
Chloride		170	250	415	98	250	412	97	1	80-120	20		
Lab Batch ID:	3046275	QC- Sample ID:	581742	-001 S	Ba	tch #:	1 Matrix	x: Soil			<u>.</u>		
Date Analyzed:	04/10/2018	Date Prepared:	04/10/2	018	An	nalyst: 1	PGM						
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	'RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY			
Ι	DRO-ORO By SW8015B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Analytes	[A]	[B]		[D]			[G]					
Diesel Range (Organics (DRO)	<25.1	101	86.4	86	100	85.9	86	1	63-139	20		

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 15 of 18



Form 3 - MS / MSD Recoveries

Project Name: Canvasback 13 Fed #002H

Work Order # :	Project ID:												
Lab Batch ID:	3046330	QC- Sample ID:	581742	-001 S	Ba	tch #:	1 Matrix	: Soil					
Date Analyzed:	04/10/2018	Date Prepared:	04/09/2	018	An	alyst: N	AIT						
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
ТРН	GRO by EPA 8015 Mod.	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag	
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD		
TPH-GRO		<3.95	19.8	15.6	79	19.1	14.9	78	5	35-129	20		

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 16 of 18

	0.055-0900)	Xence Job # C. C. Y. X.	Information 2 6 / 2 / 2 / 2		W = Water	S = Soil/Sed/Solid GW =Ground Water	DW = Drinking Water	P = Product SW = Surface water	SL ≊ Sludge OW =Ocean/Sea Wate	WI = Wipe O = Oil	MAMI INC.	WWY Waste Water			Field Comments								wores: M@tresolutions.com		skell@concho.com	nder@itrcsolution.com			έκ∕ UPS: Tracking #		Received By: 2	Received By:	4
	Phoenix, Arizona (480		Analytical I									3 100 1 EXt	015 N 10211	эме Энона ХЭТЕХ		X X X	X X X X	X X X	~ ~				kg <i>I</i> raw data) j <u>ilow</u>			ZCOL			100	D.44 T	Date lime:	Date Time:	Processing in the second
Ydots	1 of 1											Number of preserved bottles	əfstecA i	EOH 9H2O4 90H 52O4 1403 1403	Z Z T T 7							strmation	Level IV (Full Data P			UST / RG -411				Relinguished Bur	2	Relinquished By: 4	Custody Seal #
IAIN OF CU	Page	www.xenco.com		roject Information	umber: 299912			ecky Haskell						Matrix # of bottles	- 0	5 4 5 4		s				Data Deliverable Info	vel II Std QC	vel III Std QC+ Forms		vel 3 (CLP Forms)	RP Checklist		CH TIME SAMPLES CHANGE POSSESSIC				
CH	n Antonio, Texas (210-509-333 dland, Texas (432-704-5251)			act Name/Number	Tvasback 13 Fed #002H	ect Location: y Co, NM		tee то: G Operating, LLC C/O Be		(ce:		Collection		Date	/2018 9:00	/2018 9:10	/2018 9:30	/2018 9:40									¥		MUST BE DOCUMENTED BELOW EAC	Received By:	-	Received By: 3	LILLIN Received by:
	Sar Mic			Prof	Can	Proje		Phone Na: [invol 432-486-4450 COC		Invol	No. of Concession, Name			Sample Depth D	3 4/4/	1/2 4/4/	11/2 4/4/	1 1/2 4/4/					5 Day TAT	7 Day TAT		Contract TAT		sceived by 5:00 pm	SAMPLE CUSTODY	Date Time:	T the	Date 11me:	Date Time
XENCO	ndard since 1990 (281-240-4200) 14-902-0300)		ne laformation		ration			Otresolutions.com		owry			Field ID / Point of Callection	10	0							around Time (Business days)	Jay TAT	ay EMERGENCY		EMERGENCY	MERGENCY	arts Day received by Lab, if re		Ipler:))))))	
X	Setting the Star Stafford, Texas Dallas Texas (2'		Client / Renord	Company Name / Branch:	TRC Environmental Corport	Company Address: 2057 Commerce Drive	Midland. TX 79703	ilowry.	Project Contact:	Joel L Samplers's Name Becky Griffin			.oN	Ū	2 ESW	MSW E	4 SSW	5 NSW	2	8 6	10	Turn	Same L	Next D		2 Day E	3 Day E	TAT St	and a start of the second	Relinquished by Sam	Relinquished by:	3 Relinquished hv	- Cri Matternation

281742

Received by OCD: 12/16/2022 10:57:44 AM

ABORATORIES

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC						
Date/ Time Received: 04/06/2018 04:40:00 PM	Air and Metal samples Acceptable Range: Ambient						
Work Order #: 581742	Temperature Measuring device used: IR-3						
Sample Recei	pt Checklist Comments						
#1 *Temperature of cooler(s)?	4.5						
#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#:

Date: 04/06/2018

Checklist completed by: Brenda Ward Brenda Ward Checklist reviewed by: March Morah Kelsey Brooks

Date: 04/11/2018



Client: COG Operating, LLC Project Name: Canvasback 13 Federal #002H **Prepared by:** TRC Environmental Corp. **Location:** Eddy County, NM





Client: COG Operating, LLC **Project Name:** Canvasback 13 Federal #002H **Prepared by:** TRC Environmental Corp. **Location:** Eddy County, NM





Client: COG Operating, LLC **Project Name:** Canvasback 13 Federal #002H **Prepared by:** TRC Environmental Corp. **Location:** Eddy County, NM

Photograph No. 5 Description: View of portion of the excavated area.

Direction: South





Client: COG Operating, LLC Project Name: Canvasback 13 Federal #002H **Prepared by:** TRC Environmental Corp. **Location:** Eddy County, NM



NM OIL CONSERVATION

AUG 0 3 2017

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

Submit I Copy to appropriate District Office in **RECEIVED**^{accordance with 19.15.29} NMAC.

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

Energy Minerals and Natural Resources **Oil Conservation Division** 1220 South St. Francis Dr.

State of New Mexico

Santa Fe, NM 87505 **Release Notification and Corrective Action**

NAR1771951512

NAB1721951563 21795	SOPERATOR	🛛 Initial Report	Final Report
Name of Company: COG Operating LLC OGRID # 229457	Contact:	Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443	
Facility Name: Canvasback 13 Federal #002H	Facility Type:	Flowline	

Surface Owner: Federal Mineral Owner: Federal API No. 30-015-40538

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Fect from the	North/South Line	Feet from the	East/West Line	County	
Α	13	24S	3IÉ	330	North	480	East	Eddy	

Latitude 32.222781 Longitude -103.723080

NATURE OF RELEASE

Type of Release:	Volume of Release:	Volume Recovered:
Produced Water	18 bbls.	16 bbls.
Source of Release:	Date and Hour of Occurrence:	Date and Hour of Discovery:
Flowline	July 26, 2017 3:00 pm	July 26, 2017 3:00 pm
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🖾 No 🖾 Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES. Volume Impacting the Wat	etroutse
Yes 🕅 No		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken *		
The release was due to a ruptured flowline. The flowline was repaired.		
Describe Area Affected and Cleanup Action Taken.*		
•		
The release was within a pasture. The fluid released originated from the T	riste Draw 5 Federal Com #002H (AP	1 30-025-40581) which is located in Lea
County. The release occurred in Eddy county near the Canvasback 13 Fed	leral #002H pad. A vacuum truck was	dispatched to remove all freestanding
fluids. Concho will have the spill area sampled to delineate any possible in	mpact from the release and we will pro	esent a remediation work plan to the
NMOCD for approval prior to any significant remediation activities.		
I hereby certify that the information given above is true and complete to the	he best of my knowledge and understa	nd that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release n	otifications and perform corrective ac	tions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relieve 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 addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respons	sibility for compliance with any other
federal, state, or local laws and/or regulations.	-	
Raborn Dishell	OIL CONSERV	ATION DIVISION
Signature: Course Planue		
	Signed By	Milly Brenordinso
Printed Name: Rebecca Haskell	Approved by Environmental Specialis	31:
•	Chillion	N/A ·
Title: Senior HSE Coordinator	Approval Date: X 4 11	Expiration Date: 1V/
E-mail Address: maskell@concho.com	Conditions of Approval:	Attached
Deter August 2, 2017 Disease (22, 692, 2442)	500 alta	ahan
Date: August 3, 2017 Phone: 452-683-7443	UKNIII[
Attach Additional Sheets If Necessary		An in
		444-4314

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

	0.0010
Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	167792
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

CONDITIONS

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

Page 84 of 84

Action 167792