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April 25, 2019

**Mike Bratcher** New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

**Crystal Weaver** Carlsbad Field Office United States Department of the Interior Bureau of Land Management 620 Greene Street Carlsbad, NM 88220

Re: **Remediation Summary, Deferral Request and Closure Report** Canvasback 13 Federal #002H API No. 30-015-40538 GPS: Latitude 32.214831 Longitude -103.722968 UL "I", Sec. 13, T24S, R31E **Eddy County, NM** NMOCD Ref. No. 2RP-4813

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this Remediation Summary, Deferral Request and Closure Report for the Release Site known as the Canvasback 13 Federal **#002H.** Details of the Release are summarized below:

RELEASE DETAILS											
Type of Polesco: Produced Water		Volume of Release:	25 bbls	25 bbls							
Type of Release. Produced Water		Volume Recovered:	0 bbls								
Source of Release: Flowline		Date of Release: 6/13/18	Date of Discovery:	6/13/18							
Was Immediate Notice Given?	Yes	If, YES, to Whom?	NMOCD District II/B	LM							
Was a Watercourse Reached?	No	If YES, Volume Impacting th	e Watercourse:	NA							
Surface Owner: F	ederal	Mineral Owner:	Federal								
Describe Cause of Problem and Remedial Action Taken:											
The release was caused by a ruptured flowline. The flowline has since been replaced.											

Topographical and Aerial Maps are provided as Attachments #1 and #2, respectively. General Site Photographs are provided as Attachment #7. A Copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) is provided as Attachment #8.

### **REGULATORY FRAMEWORK**

Surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste which occur during normal oilfield operations are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance and enforcement procedures. Table I of 19.15.29.12 NMAC determines the closure criteria for soils impacted by a release based on the depth to groundwater and the following site charateristics:

Approximate Depth to Groundwater	~350'
Within 300 ft. of any continuously flowing or significant watercourse?	🗌 Yes 🗹 No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	🗌 Yes 🗹 No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	🗌 Yes 🗹 No
Within 500 ft. of a spring or private, domestic fresh water well?	🗌 Yes 🗹 No
Within 1,000 ft. of any fresh water well?	🗌 Yes 🗹 No
Within the incorporated municipal boundaries or within a municipal well field?	🗌 Yes 🗹 No
Within 300 ft. of a wetland?	🗌 Yes 🗹 No
Within the area overlying a subsurface mine?	🗌 Yes 🗹 No
Within an unstable area?	🗌 Yes 🗹 No
Within a 100-year floodplain?	Yes 🗸 No

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within a 1 Mile radius of the Release Site and identify any registered water wells within 1/2 Mile of the Release Site. If none were identified, the approximate depth to groundwater was extrapolated from a Depth to Groundwater Map utilized by the NMOCD. Depth to groundwater information is provided as Attachment #5.

Based on the approximate depth to groundwater and site characteristics, the NMOCD Closure Criteria are as follows:

Table I Closure Criteria for Soils Impacted by a Release										
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**							
	Chloride***	EPA 300.0	20,000 mg/kg							
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg							
> 100 feet	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg							
	ВТЕХ	EPA SW-846 Method 8021B or 8260B	50 mg/kg							
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg							

### **INITIAL SITE ASSESSMENT**

On June 19-20, 2018, TRC conducted an initial investigation at the Site. During the initial investigation, fifteen (15) soil samples were collected from multiple locations within the release margins in an effort to determine the vertical extent of soil impact. In addition, eleven (11) soil samples were collected from the inferred edges of the release margins in an effort to determine the horizontal extent of soil impacts. The collected soil samples were submitted to an NMOCD approved laboratory for analysis of chloride.

On **October 24, 2018**, TRC revisted the Site. During the site visit, **six (6) surface soil samples** were collected and submited to the laboratory for analysis of BTEX, TPH, and chloride. A table summarizing laboratory analytical results from soil samples collected from the Site is provided below:

	Conce	ntratio	ns of BTE	X, TPH a	nd/or Ch	loride in	Soil (Ini	tial Soil Sa	mples)		
				SW 846	5 8021B		SW	846 8015M E	ixt.		E 300
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)
HA-1 @ 6"	6/19/2018	6"	In-Situ	-	-	-	-	-	-	-	<25.0
HA-1 @ 1'	6/19/2018	1'	In-Situ	-	-	-	-	-	-	-	<25.0
HA-1B @ Surface	10/24/2018	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
HA-2 @ 6"	6/19/2018	6"	In-Situ	-	-	-	-	-	-	-	203
HA-2 @ 1'	6/19/2018	1'	In-Situ	-	-	-	-	-	-	-	<25.0
HA-2B @ Surface	10/24/2018	0-3"	In-Situ	<0.050	<0.300	<10.0	13.8	13.8	<10.0	13.8	80.0
HA-3 @ 6"	6/19/2018	6"	Excavated	-	-	<3.58	<25.0	<25.0	<25.0	<25.0	2,130
HA-3 @ 2'	6/19/2018	2'	In-Situ	-	-	-	-	-	-	-	28.7
HA-3B @ Surface	10/24/2018	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
HA-4 @ 6"	6/19/2018	6"	In-Situ	-	-	-	-	-	-	-	<25.0
HA-4B @ Surafce	10/24/2018	0-3"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
HA-5 @ 6"	6/19/2018	6"	Excavated	-	-	-	-	-	-	-	366
HA-6 @ 1'	6/19/2018	1'	Excavated	-	-	-	-	-	-	-	9,880
HA-6 @ 3'	6/19/2018	3'	In-Situ	-	-	-	-	-	-	-	319
HA-6 @ 4'	6/19/2018	4'	In-Situ	-	-	-	-	-	-	-	326
HA-6B @ Surafce	10/24/2018	0-3"	Excavated	<0.050	<0.300	<10.0	10.1	10.1	<10.0	10.1	16.0
CI	Closure Criteria				50	-	-	1,000	-	2,500	20,000

Concentrations of BTEX, TPH and/or Chloride in Soil (Initial Soil Samples Continued)													
				SW 846	5 8021B		SW	846 8015M E	xt.		E 300		
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)		
HA-7 @ 1'	6/20/2018	1'	In-Situ	-	-	-	-	-	-	-	3,760		
HA-7 @ 6'	6/20/2018	6'	In-Situ	-	-	-	-	-	-	-	472		
HA-7 @ 7'	6/20/2018	7'	In-Situ	-	-	-	-	-	-	-	292		
HA-7 @ 8'	6/20/2018	8'	In-Situ	-	-	-	-	-	-	-	390		
HA-7B @ Surafce	10/24/2018	0-3"	In-Situ	<0.050	<0.300	<10.0	17.0	17.0	<10.0	17.0	48.0		
N-1 @ 6"	6/19/2018	6"	In-Situ	-	-	-	-	-	-	-	<25.0		
N-2 @ 1.5'	6/19/2018	1.5'	In-Situ	-	-	-	-	-	-	-	51.4		
S-1 @ 6"	6/20/2018	6"	In-Situ	-	-	-	-	-	-	-	66.4		
S-2 @ 1.5'	6/20/2018	1.5'	In-Situ	-	-	-	-	-	-	-	<25.0		
E-1 @ 6"	6/20/2018	6"	Excavated	-	-	-	-	-	-	-	1,050		
E-2 @ 1.5'	6/20/2018	1.5'	In-Situ	-	-	-	-	-	-	-	<25.0		
E-3 @ 3.5'	6/20/2018	3.5'	In-Situ	-	-	-	-	-	-	-	30.7		
W-1 @ 6"	6/20/2018	6"	In-Situ	-	-	-	-	-	-	-	370		
W-2 @ 6"	6/20/2018	6"	In-Situ	-	-	-	-	-	-	-	228		
W-3 @ 6"	6/20/2018	6"	In-Situ	-	-	-	-	-	-	-	<25.0		
W-4 @ 6"	6/20/2018	6"	In-Situ	-	-	-	-	-	-	-	<25.0		
CI	osure Crite	ria		10	50	-	-	1,000	-	2,500	20,000		

A "Site & Initial Sample Location Map" is provided as Attachment #3. Laboratory analytical reports are provided as Attachment #6.

### **BLM Denial of Closure and Subsequent Requested Remediation**

On December 14, 2018, the BLM denied the request for closure based on NMOCD regulatory guidelines, and requested soil located from surface to four (4) feet bgs be remediated to below six hundred (600) mg/kg for chloride concentrations. The areas represented by sample locations HA-3, HA-6, HA-7, and E-1 each exhibited chloride concentrations greater than six hundred (600) mg/kg in the surface to four (4) foot bgs interval.

On April 10, 2019, the three (3) areas represented by sample locations HA-3, HA-6, and E-1 were excavated until chloride concentrations, both laterally and vertically, were below six hundred (600) mg/kg. On April 12, 2019, eight (8) five point composite confirmation soil samples (A1-FL1 @ 1', A1-FL2 @ 1', A1-FL3 @ 1', A1-FL4 @ 1', A1-NW @ 6", A1-EW @ 6", A1-SW @ 6", and A1-WW @ 6") were collected from the floor and sidewalls of the area represented by initial soil sample location E-1, which was excavated to a depth of approximately one (1) foot bgs. Collected soil samples were submitted to the laboratory for TPH, BTEX, and/or chloride analyses. A review of analytical results indicated TPH and BTEX constituents were below the laboratory minimum detection limits (MDLs) in each sample analyzed for BTEX and TPH, and chloride concentrations were below NMOCD and BLM regulatory guidelines in the submitted samples. Ten (10) five point composite confirmation soil samples (A2-FL1 @ 1.5', A2-FL2 @ 1.5', A2-FL3 @ 1.5', A2-FL4 @ 1.5', A2-NW @ 9", A2-EW1 @ 9", A2-EW2 @ 9", A2-WW1 @ 9", A2-WW2 @ 9", and A2-SW @ 9") were collected from the floor and sidewalls of the area represented by initial soil sample location for the floor and sidewalls of the area represented by initial soil sample location the floor and sidewalls of the area represented by initial soil sample location floor and sidewalls of the area represented by initial soil sample location HA-6, which was excavated to a depth of approximately eighteen (18) inches bgs, and were submitted to the laboratory for TPH, BTEX, and/or chloride analyses.

A review of analytical results indicated TPH and BTEX constituents were below the respective laboratory MDLs in each sample analyzed for BTEX and TPH, and chloride concentrations were below NMOCD and BLM regulatory guidelines in the submitted samples, with the exception of A2-FL1 @ 1.5' and A2-FL4 @ 1.5'. Sixteen (16) five point composite confirmation soil samples (A3-FL1 @ 1', A3-FL2 @ 1', A3-FL3 @ 1', A3-FL4 @ 1', A3-FL5 @ 1', A3-FL6 @ 1', A3-FL7 @ 1', A3-FL8 @ 1', A3-FL9 @ 1', A3-FL10 @ 1', A3-NW @ 6", A3-EW1 @ 6", A3-EW2 @ 6", A3-WW1 @ 6", A3-WW2 @ 6", and A3-SW @ 6") were collected from the floor and sidewalls of the area represented by initial soil sample location HA-3, which was excavated to a depth of approximatly one (1) foot bgs. Collected soil samples were submitted to the laboratory for TPH, BTEX, and/or chloride analyses. A review of analytical results indicated TPH and BTEX constituents were below the respective laboratory MDLs in each sample analyzed for BTEX and TPH, and chloride concentrations were below NMOCD and BLM regulatory guidelines in the submitted soil samples, with the exception of A3-FL1 @ 1', A3-FL2 @ 1', and A3-FL4 @1'.

On April 15, 2019, the excavations at the five (5) areas exhibiting chloride concentrations above NMOCD and BLM regulatory guidelines were further vertically advanced. The areas represented by A2-FL1 @ 1.5' and A2-FL4 @ 1.5' were excavated to a depth of approximatly four (4) feet bgs. The areas represented by A3-FL1 @ 1', A3-FL2 @ 1', and A3-FL4 @ 1' were excavated to a depth of approximately eighteen (18) inches bgs. Five (5) five point composite confimation soil samples (A2-FL1 @ 4', A2-FL4 @ 4', A3-FL1 @ 1.5', A3-FL2 @ 1.5', and A3-FL4 @ 1.5') were collected from the excavated areas and submitted for chloride analyses. The soil samples collected from four (4) feet bgs are below the NMOCD and BLM requested remediation depth. Both four foot soil samples collected from area A2 were below NMOCD guidelines for chloride concentrations. In area A3, soil sample A3-FL1 @ 1.5' was below NMOCD and BLM regulatory guidelines, and soil samples A3-FL2 @ 1.5' AND A3-FL4 @ 1.5' were above NMOCD and BLM regulatory guidelines.

On April 18, 2019, the excavation in the areas represented by soil samples A3-FL2 @ 1.5' and A3-FL4 @ 1.5' were verticaly advanced to a depth of approximatly four (4) feet bgs. Two (2) five point composite soil samples (A3-FL2 @ 4' and A3-FL4 @ 4') were collected from the base of the excavated area and were submitted to the laboratory for chloride analysis. The soil samples collected from four (4) feet bgs are below the NMOCD and BLM requested remediation depth. The two (2) submitted soil samples were below NMOCD regulatory guidelines for chloride concentrations.

On April 18, 2019, the excavations in areas A1, A2, and A3 were backfilled with locally sourced 'non-impacted' like materail and returned to grade. Six hundred and sixty (660) cubic yards of impacted material was removed from the Release Site and disposed of at an NMOCD approved disposal facility. Please see Attachment 4A - Excavation and Sidewall Confirmation Soil Sample Location Map and Attachment 4B - Excavation and Floor Confirmation Soil Sample Location Map and Attachment 4B - Excavation of all confirmation soil samples. The excavated areas associated with initial soil sample location HA-6 were excavated to the maximum lateral extent practicable, as the excavation extended to the margin of the area covered in surface lines, where further excavation poses a greater risk for property damage, saftey concerns and potential a for additional releases. The area represented by initial soil sample location HA-7 is currently entirely covered with surface lines. Please see Attachment 8 - General Photographs for photographic depiction of the area covered in surface lines. A table summarizing the analytical results of the confirmation soil sampling is provided on the subsequent page:

Concentrations of BTEX, TPH and/or Chloride in Soil (Confirmation Samples)												
				SW 846	5 8021B		SW	846 8015M E	xt.		E 300	
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/kg)	Chloride (mg/kg)	
A1-FL1 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-	-	-	112	
A1-FL2 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-	-	-	112	
A1-FL3 @ 1'	4/12/2019	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
A1-FL4 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-	-	-	176	
A1-NW @ 6"	4/12/2019	6"	In-Situ	-	-	-	-	-	-	-	80.0	
A1-EW @ 6"	4/12/2019	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
A1-SW @6"	4/12/2019	6"	In-Situ	-	-	-	-	-	-	-	48.0	
A1-WW @ 6"	4/12/2019	6"	In-Situ	-	-	-	-	-	-	-	64.0	
A2-FL1 @ 1.5'	4/12/2019	18"	Excavated	-	-	-	-	-	-	-	784	
A2-FL-1 @ 4'	4/16/2019	48"	In-Situ	-	-	-	-	-	-	-	960	
A2-FL2 @ 1.5'	4/12/2019	18"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
A2-FL3 @ 1.5'	4/12/2019	18"	In-Situ	-	-	-	-	-	-	-	160	
A2-FL4 @ 1.5'	4/12/2019	18"	Excavated	-	-	-	-	-	-	-	1470	
A2-FL-4 @ 4'	4/17/2019	48"	In-Situ	-	-	-	-	-	-	-	720	
A2-NW @ 9"	4/12/2019	9"	In-Situ	-	-	-	-	-	-	-	32.0	
A2-EW1 @ 9"	4/12/2019	9"	In-Situ	-	-	-	-	-	-	-	64.0	
A2-EW2 @ 9"	4/12/2019	9"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0	
A2-SW @ 9"	4/12/2019	9"	In-Situ	-	-	-	-	-	-	-	32.0	
A2-WW1 @ 9"	4/12/2019	9"	In-Situ	-	-	-	-	-	-	-	176	
A2-WW2 @ 9"	4/12/2019	9"	In-Situ	-	-	-	-	-	-	-	256	
A3-FL1 @ 1'	4/12/2019	12"	Excavated	-	-	-	-	-	-	-	832	
A3-FL-1 @ 1.5'	4/16/2019	18"	In-Situ	-	-	-	-	-	-	-	256	
A3-FL2 @ 1'	4/12/2019	12"	Excavated	-	-	-	-	-	-	-	1040	
A3-FL-2 @ 1.5'	4/16/2019	18"	Excavated	-	-	-	-	-	-	-	2280	
A3-FL-2 @ 4'	4/18/2019	48"	In-Situ	-	-	-	-	-	-	-	4130	
A3-FL3 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-	-	-	32.0	
A3-FL4 @ 1'	4/12/2019	12"	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1310	
A3-FL-4 @ 1.5'	4/16/2019	18"	Excavated	-	-	-	-	-	-	-	1580	
A3-FL-4 @ 4'	4/18/2019	48"	In-Situ	-	-	-	-	-	-	-	616	
A3-FL5 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-	-	-	176	
A3-FL6 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-	-	-	112	
A3-FL7 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-	-	-	48.0	
A3-FL8 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-		-	48.0	
A3-FL9 @ 1'	4/12/2019	12"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
A3-FL10 @ 1'	4/12/2019	12"	In-Situ	-	-	-	-	-	-	-	80.0	
A3-NW @ 6"	4/12/2019	6"	In-Situ	-	-	-	-	-	-	-	80.0	
A3-EW1 @ 6'	4/12/2019	6"	In-Situ	-	-	-	-	-	-	-	48.0	
A3-EW2 @ 6"	4/12/2019	6"	In-Situ	-	-	-	-	-	-	-	80.0	
A3-SW @ 6"	4/12/2019	6"	In-Situ	-	-	-	-	-	-	-	32.0	
A3-WW1 @ 6"	4/12/2019	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
A3-WW2 @ 6"	4/12/2019	6"	In-Situ	-	-	-	-	-	-	-	<16.0	
CI	osure Crite	ria		10	50	-	-	1,000	-	2,500	600 20,000	

### DEFERRAL REQUEST

COG maintains excavation and backfilling of the affected area represented by soil sample location HA-7 @ 1' underlying above-ground pipelines would pose a risk which could result in potentially hazardous conditions and property damage. The area represented by soil sample location HA-7 does not exceed NMOCD and BLM regulatory guidelines at any other sampled depths except the one (1) foot bgs interval. Based on laboratory analytical results, site characteristics, and field observations made during the intial site visit and subsequent visits, COG requests remediation, restoration and reclamation of the area represented by soil sample HA-7 @ 1' be deferred until the equipment is removed during other operations and/or at time abandonment, whichever occurs first.

### SITE CLOSURE REQUEST

Based on laboratory analytical results from soil samples collected during the initial site assessment and supplemental surface sampling, impacted soil within the release margins, with the exception of the requested defered area, has been determined to be below the Table I of 19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release in all areas with the exception of the area of requested deferral. Additionally, chloride impact from the surface to four (4) foot bgs interval has been removed from the Site per the BLM request. Approximately six hundred and sixty (660) cubic yards of material was removed from the Release Site to a NMOCD approved disposal facility. The remediated area was returned to grade utilizing commercially sourced non-impacted 'like' material. TRC on behalf of COG Operating, LLC respectfully requests the NMOCD and BLM grant closure approval for the Canvasback 13 Federal #002H release which occurred on June 13, 2018.

# **RESTORATION, RECLAMATION AND RE-VEGETATION**

Areas affected by the Release were substantially restored to the condition which existed prior to the release to the maximum extent practicable.

If you have any questions, or if additional information is required, please feel free to contact Becky Haskell or either of the undersigned by phone or email.

Respectfully, TRC Environmental Corp.

Jared E. Stoffel, PG Staff Geologist jstoffel@trcsolutions.com (432) 238-3003

Attachments:

Attach Attach Attach Attach Attach Attach Attach Attach

**Curt Stanley** Senior Project Manager cdstanley@trcsolutions.com (432) 559-3296

Released to Imaging: 11/28/2022 11:55:17 AM

iment #1-	Figure 1 - Topographical Map
nment #2-	Figure 2 - Aerial Map
nment #3-	Figure 3 - Site & Initial Sample Location Map
nment #4-	Figure 4 - Excavation & Confirmation Soil Sample Location Map
nment #5	Depth to Groundwater Information
nment #6-	Laboratory Analytical Reports
nment #7-	General Site Photographs
nment #8-	Release Notification and Corrective Action (FORM C-141)

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	A1-FL1 @ 1'	@ 1'		
	A1-FL3 @ 1' A3-FL2 @ 1' A3-FL2 @ 1.5' A3-FL2 @ 4'	A1-FL4 @ 1'		
	A3-FL1 @ 1' A3-FL1 @ 1.5'	A2-FL1 @ 1.5" A2-FL1 @ 4'		
	A3-FL4 @ 1' A3-FL4 @ 1.5' A3-FL4 @ 4'	A2-FL2 @ 1.5'		
	A3-FL5 @ 1'	A2-FL4 @ 1.5' A2-FL4 @ 4'		
	A3-FL7 @ 1' A3-FL9 @ 1'	A3-FL6 @ 1' A3-FL8 @ 1' A3-FL 10 @ 1'		
		Foreitig		
h				200 ft
LEGEND:	Fence • 5-Point Composite Location Above Ground Pipeline (10")	Figure 4B Excavation & Confirmation Sample Location	Drafted by: BC Checked by: CS	<b>OTRC</b>
Excavated Area 1' Excavated Area 1.5' Excavated Area 4'	Below Ground Surface Pipeline Above Ground Pipeline (2") Above Ground Pipeline (4")	COG Operating, LLC Canvasback 13 Federal #002H Eddy County, New Mexico	Draft: April 23, 2018 Lat. N 32.214831 Long. W -103.722968 UL "I", Sec. 13, T24S, R31E TRC Proj. No.: 308403	10 Desta Drive Suite 150E Midland, Texas 79705 432.520.7720

•

Received by OCD: 11/28/2022 11:49:56 AM/ReportPr xy?queryData=% B"r port"%3A"wate Co umn"%2C%0A"BasinDiv"%3A"true"%2C%B488 13 of 90

internal State	V	/at	Nev er C	<i>w M</i> Colu	exi un	co ( nn/	Offic <b> Av</b>	e of <b>era</b>	the Stat <b>ge De</b>	e Engine epth to	eer <b>Wate</b>	r
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orphan C=the file closed)	has been ned, e is	n	(quart (quart	ters are ters are	e 1=NV e smalle	V 2=NE 3= est to large	=SW 4=S] est) (1	E) NAD83 UTM in 1	neters)	(In feet)	
		Sub-		QQ	Q							Water
POD Number	Code	basin	County	64 16	4 Sec	: Tws	Rng	Χ	Y	DistanceDept	thWellDepthWa	ter Column
<u>C 03530 POD1</u>		С	LE	3 4	3 07	24S	32E	620886	3566156 🌍	1315	550	
									Avera	age Depth to Water	:	
										Minimum Dep	th:	
										Maximum Dept	h:	
Record Count: 1												
UTMNAD83 Radiu	s Search (in	meters	) <u>:</u>									
Easting (V): 620	346.83		North	ning (Y):	3564	4957			Radius: 1609.3	3		

7/2/18 8:45 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# Analytical Report 590231

for TRC Solutions, Inc

Project Manager: Joel Lowry

Canvasback 13 FED 002H (61318)

# 28-JUN-18

Collected By: Client



# 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), 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 (T104704400-18-15) 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) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098) Received by OCD: 11/28/2022 11:49:56 AM



28-JUN-18

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

### Reference: XENCO Report No(s): 590231 Canvasback 13 FED 002H (61318) 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) 590231. 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. 590231 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,

Kniskoah

**Kelsev Brooks Project Manager** 

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# ABORATORIES

Sample Id									
HA-1 @ 6"									
HA-1 @ 1'									
HA-2 @ 6"									
HA-2 @ 1'									
HA-3 @ 6"									
HA-3 @ 2'									
HA-4 @ 6"									
HA-5 @ 6"									
HA-6 @ 1'									
HA-6 @ 3'									
HA-6 @ 4'									
HA-7 @ 1'									
HA-7 @ 6'									
HA-7 @ 7'									
HA-7 @ 8'									
N-1 @ 6"									
N-2 @ 1.5'									
S-1 @ 6"									
S-2 @ 1.5'									
E-1 @ 6"									
E-2 @ 1.5'									
E-3 @ 3.5'									
W-1 @ 6"									
W-2@ 6"									
W-3 @ 6"									
W-4 @ 6"									

# Sample Cross Reference 590231

# TRC Solutions, Inc, Midland, TX

Canvasback 13 FED 002H (61318)

Matrix	Date Collected	Sample Depth	Lab Sample Id				
S	06-19-18 08:00	6 In	590231-001				
S	06-19-18 08:10	1 In	590231-002				
S	06-19-18 08:20	6 In	590231-003				
S	06-19-18 08:30	1 In	590231-004				
S	06-19-18 08:40	6 In	590231-005				
S	06-19-18 08:50	2 In	590231-006				
S	06-19-18 09:00	6 In	590231-007				
S	06-19-18 09:10	6 In	590231-008				
S	06-19-18 09:20	1 In	590231-009				
S	06-19-18 09:40	3 In	590231-010				
S	06-19-18 09:50	4 In	590231-011				
S	06-20-18 10:00	1 In	590231-012				
S	06-20-18 08:00	6 In	590231-013				
S	06-20-18 08:10	7 In	590231-014				
S	06-20-18 08:20	8 In	590231-015				
S	06-19-18 10:10	6 In	590231-016				
S	06-19-18 10:20	6 In	590231-017				
S	06-20-18 09:20	6 In	590231-018				
S	06-20-18 09:40	1.5 In	590231-019				
S	06-20-18 09:50	6 In	590231-020				
S	06-20-18 10:00	1.5 In	590231-021				
S	06-20-18 10:10	3.5 In	590231-022				
S	06-20-18 10:20	6 In	590231-023				
S	06-20-18 10:30	6 In	590231-024				
S	06-20-18 10:40	6 In	590231-025				
S	06-20-18 10:50	6 In	590231-026				





# CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Canvasback 13 FED 002H (61318)

Project ID: Work Order Number(s): 590231 Report Date:28-JUN-18Date Received:06/22/2018

### Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

### Analytical non conformances and comments:

Batch: LBA-3054683 Chloride by EPA 300

Lab Sample ID 590231-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 590231-005, -006, -007, -008, -009, -010, -011, -012, -013.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3054770 Chloride by EPA 300

Lab Sample ID 590231-023 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 590231-014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.





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

Certificate of Analysis Summary 590231

TRC Solutions, Inc, Midland, TX Project Name: Canvasback 13 FED 002H (61318)

Date Received in Lab:Fri Jun-22-18 03:00 pmReport Date:28-JUN-18Project Manager:Kelsey Brooks

	1													
	Lab Id:	590231-0	01	590231-0	02	590231-003		590231-004		590231-005		590231-006		
Analysis Paguastad	Field Id:	HA-1 @	6"	HA-1 @	1'	HA-2@	6"	HA-2 @	1'	HA-3 @ (	5"	HA-3 @	HA-3 @ 2'	
Analysis Kequestea	Depth:	6- In	6- In		1- In		6- In			6- In		2- In		
	Matrix:	SOIL	SOIL			SOIL	SOIL			SOIL		SOIL	SOIL	
	Sampled:	Jun-19-18 0	Jun-19-18 08:00 Ju		Jun-19-18 08:10		Jun-19-18 08:20		8:30	Jun-19-18 08:40		Jun-19-18 08:50		
Chloride by EPA 300	Extracted:	Jun-26-18 0	8:30	Jun-26-18 0	Jun-26-18 08:30		Jun-26-18 08:30		8:30	Jun-26-18 08:30		Jun-26-18 08:30		
	Analyzed:	Jun-26-18 1	Jun-26-18 18:39		Jun-26-18 18:51		Jun-26-18 19:04		9:16	Jun-26-18 20:18		Jun-26-18 21:08		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		<25.0	25.0	<25.0	25.0	203	25.0	<25.0	25.0	2130 D	125	28.7	25.0	
DRO-ORO By SW8015B Extracted:										Jun-26-18 1	3:30			
	Analyzed:									Jun-27-18 04	4:51			
	Units/RL:									mg/kg	RL			
Diesel Range Organics (DRO)										<25.0	25.0			
Oil Range Hydrocarbons (ORO)										<25.0	25.0			
TPH GRO by EPA 8015 Mod.	Extracted:									Jun-25-18 1	3:00			
	Analyzed:									Jun-26-18 0	9:59			
	Units/RL:									mg/kg	RL			
TPH-GRO										<3.58	3.58			

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Kins Joah

Kelsey Brooks Project Manager



Joel Lowry

Eddy Co. NM

**Project Id:** 

**Project Location:** 

**Contact:** 

Certificate of Analysis Summary 590231

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TRC Solutions, Inc, Midland, TX Project Name: Canvasback 13 FED 002H (61318)

Date Received in Lab:Fri Jun-22-18 03:00 pmReport Date:28-JUN-18Project Manager:Kelsey Brooks

	Lab Id:	590231-00	)7	590231-0	08	590231-0	09	590231-0	10	590231-0	11	590231-0	)12
Analysis Paguastad	Field Id:	HA-4 @ 6	5"	HA-5 @	6"	HA-6@	1'	HA-6@	3'	HA-6@	4'	HA-7 @	1'
Analysis Kequesieu	Depth:	6- In		6- In		1- In		3- In		4- In		1- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-19-18 0	Jun-19-18 09:00		Jun-19-18 09:10		)9:20	Jun-19-18 0	9:40	Jun-19-18 0	9:50	Jun-20-18	10:00
Chloride by EPA 300	Extracted:	Jun-26-18 0	8:30	Jun-26-18 08:30		Jun-26-18 (	08:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 (	08:30
	Analyzed:	Jun-26-18 2	1:20	Jun-26-18 2	1:33	Jun-26-18 2	21:45	Jun-26-18 2	1:58	Jun-26-18 2	2:10	Jun-26-18 2	22:22
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<25.0	<25.0 25.0		50.0	9880	2500	319	25.0	326	25.0	3760	1250

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Kins Joah

Kelsey Brooks Project Manager

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Page 6 of 22



Project Id: Contact: Joel Lowry

Project Location: Eddy Co. NM

Certificate of Analysis Summary 590231

TRC Solutions, Inc, Midland, TX

Project Name: Canvasback 13 FED 002H (61318)

Date Received in Lab:Fri Jun-22-18 03:00 pmReport Date:28-JUN-18Project Manager:Kelsey Brooks

	Lab Id:	590231-01	.3	590231-0	14	590231-0	15	590231-0	16	590231-0	017	590231-0	018
Analysis Paguested	Field Id:	HA-7@6	5'	HA-7@	7'	HA-7@	8'	N-1 @ 6	"	N-2 @ 1	.5'	S-1 @ 6	5"
Analysis Kequestea	Depth:	6- In		7- In		8- In		6- In		6- In		6- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-18 08:00		Jun-20-18 08:10		Jun-20-18 0	8:20	Jun-19-18 1	0:10	Jun-19-18	0:20	Jun-20-18 (	09:20
Chloride by EPA 300	Extracted:	Jun-26-18 08	8:30	Jun-26-18 08:30		Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 (	08:30	Jun-26-18 (	08:30
	Analyzed:	Jun-26-18 22	2:35	Jun-27-18 0	9:51	Jun-27-18 1	0:41	Jun-27-18 1	0:53	Jun-27-18 1	1:06	Jun-27-18 1	11:18
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		472	50.0	292	25.0	390	50.0	<25.0	25.0	51.4	25.0	66.4	25.0

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Kins Joah

Kelsey Brooks Project Manager

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Joel Lowry

Eddy Co. NM

**Project Id:** 

**Project Location:** 

**Contact:** 

Certificate of Analysis Summary 590231

TRC Solutions, Inc, Midland, TX

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Project Name: Canvasback 13 FED 002H (61318)

Date Received in Lab:Fri Jun-22-18 03:00 pmReport Date:28-JUN-18Project Manager:Kelsey Brooks

	Lab Id:	590231-0	19	590231-0	20	590231-02	21	590231-0	22	590231-0	23	590231-0	)24
Analysis Propertod	Field Id:	S-2 @ 1.5	5'	E-1@6	"	E-2 @ 1.:	5'	E-3 @ 3.	5'	W-1 @ 6	5"	W-2@ 6	6"
Analysis Kequesieu	Depth:	1.5- In		6- In		1.5- In		3.5- In		6- In		6- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-20-18 09:40		Jun-20-18 09:50		Jun-20-18 1	0:00	Jun-20-18 1	0:10	Jun-20-18 1	0:20	Jun-20-18	10:30
Chloride by EPA 300	Extracted:	Jun-26-18 0	8:30	Jun-26-18 08:30		Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 0	8:30	Jun-26-18 (	08:30
	Analyzed:	Jun-27-18 1	1:31	Jun-27-18 1	1:43	Jun-27-18 1	1:56	Jun-27-18 1	2:08	Jun-27-18 1	2:33	Jun-27-18 1	13:22
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<25.0	<25.0 25.0		125	<25.0	25.0	30.7	25.0	370	25.0	228	25.0

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Kins Joah

Kelsey Brooks Project Manager

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Page 8 of 22



Joel Lowry

Eddy Co. NM

**Project Id:** 

**Project Location:** 

**Contact:** 

Certificate of Analysis Summary 590231

TRC Solutions, Inc, Midland, TX

Project Name: Canvasback 13 FED 002H (61318)

Date Received in Lab:Fri Jun-22-18 03:00 pmReport Date:28-JUN-18Project Manager:Kelsey Brooks

	Lab Id:	590231-02	25	590231-0	26		
Analysis Paguastad	Field Id:	W-3 @ 6	;"	W-4 @ 6	;"		
Analysis Kequesieu	Depth: 6- In Matrix: SOII			6- In			
	Matrix:	SOIL		SOIL			
	Sampled:	Jun-20-18 1	0:40	Jun-20-18 1	0:50		
Chloride by EPA 300	Extracted:	Jun-26-18 0	8:30	Jun-26-18 0	8:30		1
	Analyzed:	Jun-27-18 1	3:35	Jun-27-18 1	3:47		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		<25.0	25.0	<25.0	25.0		

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

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# **Flagging Criteria**

- 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



# Form 2 - Surrogate Recoveries

Work Ore Lab Batch #	<b>ders :</b> 59023 #: 3054610	1, Sample: 590231-005 / SMP	Batch	Project ID: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 06/26/18 09:59	SUI	RROGATE RI	ECOVERYS	STUDY	
	TPH GRO	) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromofluo	robenzene		0.110	0.100	110	76-123	
a,a,a-Trifluoi	rotoluene		1.62	1.79	91	69-120	
Lab Batch #	<b>#:</b> 3054675	Sample: 590231-005 / SMP	Batch	: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 06/27/18 04:51	SUI	RROGATE RI	ECOVERYS	STUDY	
	DRO-C	ORO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			9.73	10.0	97	65-144	
n-Triacontan	e		10.2	10.0	102	46-152	
Lab Batch #	#: 3054610	Sample: 7657268-1-BLK / 1	BLK Batch	: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 06/26/18 00:50	SUI	RROGATE RI	ECOVERY	STUDY	
	TPH GRO	) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluo	robenzene	•	0.0821	0.100	82	76-123	
a,a,a-Trifluor	rotoluene		2.34	2.00	117	69-120	
Lab Batch #	#: 3054675	Sample: 7657369-1-BLK / ]	BLK Batch	: 1 Matrix:	Solid		
Units:	mg/kg	<b>Date Analyzed:</b> 06/26/18 17:32	SUI	RROGATE RI	ECOVERY	STUDY	
	DRO-C	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			8.49	10.0	85	65-144	
n-Triacontan	e		7.93	10.0	79	46-152	
Lab Batch #	#: 3054610	Sample: 7657268-1-BKS / 1	BKS Batch	: 1 Matrix:	Solid	1	I
Units:	mg/kg	Date Analyzed: 06/26/18 13:10	SUI	RROGATE RI	ECOVERYS	STUDY	
	TPH GRO	) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluo	robenzene		0.0828	0.100	83	76-123	
a a a-Trifluor	rotoluene		1 81	2.00	01	69-120	
<u>a,a,a-1111100</u>			1.01	2.00	91	09-120	

\* 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

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Work Ord	l <b>ers:</b> 59023 • 3054675	1, Sample: 7657360 1 BKS / E	KS Dota	Project ID:	. Solid		
Units:	mg/kg	<b>Date Analyzed:</b> 06/26/18 18:11	ST Date	IRPOCATE P	FCOVERV	STUDV	
	DRO-C	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			10.8	10.0	108	65-144	
n-Triacontane	:		7.89	10.0	79	46-152	
Lab Batch #	<b>:</b> 3054610	Sample: 7657268-1-BSD / E	BSD Bate	h: 1 Matrix	: Solid	<u></u> _	
Units:	mg/kg	Date Analyzed: 06/26/18 13:37	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-Bromofluor	obenzene		0.0840	0.100	84	76-123	
a,a,a-Trifluoro	otoluene		1.80	2.00	90	69-120	
Lab Batch #	: 3054675	<b>Sample:</b> 7657369-1-BSD / E	SD Batc	h: 1 Matrix	: Solid		
Units:	mg/kg	<b>Date Analyzed:</b> 06/26/18 18:51	SU	RROGATE R	ECOVERY	STUDY	
	DRO-C	ORO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			10.7	10.0	107	65-144	
n-Triacontane			8.47	10.0	85	46-152	
Lab Batch #	: 3054610	Sample: 590084-005 S / MS	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	<b>Date Analyzed:</b> 06/26/18 02:39	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-Bromofluor	obenzene		0.115	0.100	115	76-123	
a,a,a-Trifluoro	otoluene		1.70	1.98	86	69-120	
Lab Batch #	: 3054675	Sample: 590084-002 S / MS	Batc	h: 1 Matrix	: Soil	<u>.                                     </u>	
Units:	mg/kg	Date Analyzed: 06/26/18 20:46	SU	RROGATE R	ECOVERYS	STUDY	
	DRO-C	ORO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane		<i>•</i>	11.2	10.0	112	65-144	
n-Triacontane	:		10.0	10.0	100	46-152	
L							

\* 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

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

# Project Name: Canvasback 13 FED 002H (61318)

Work O	rders : 59023	1,		Project ID:				
Lab Batch	#: 3054610	Sample: 590084-005 SD / N	MSD Batch	n: 1 Matrix:	Soil			
Units:	mg/kg	Date Analyzed: 06/26/18 03:07	SU	RROGATE RE	COVERY S	STUDY		
	TPH GRO	) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
4 Promofil	Jorohanzana	Analytes	0.104	0.100	104	76 100		
4-Бтоппопи	uorobelizene		0.104	0.100	104	/6-123		
a,a,a-Triflu	orotoluene		1.45	2.00	73	69-120		
Lab Batch	#: 3054675	Sample: 590084-002 SD / N	MSD Batch	n: 1 Matrix:	Soil			
Units:	mg/kg	Date Analyzed: 06/26/18 21:22	SU	RROGATE RE	COVERY S	STUDY		
	DRO-O	RO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Tricosane		•	11.0	10.0	110	65-144		
n-Triaconta	ane		9.17 10.0 92 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

All results are based on MDL and validated for QC purposes.



# **BS / BSD Recoveries**



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# Project Name: Canvasback 13 FED 002H (61318)

Work Order	r #: 590231							Pro	ject ID:			
Analyst:	RNL	D	ate Prepar	ed: 06/26/201	18			Date A	nalyzed: (	06/26/2018		
Lab Batch ID	<b>Sample:</b> 7657385-1	-BKS	Batc	<b>h #:</b> 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 vtes	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	254	102	250	257	103	1	90-110	20	
Analyst:	RNL	D	ate Prepar	red: 06/26/201	18	+	1	Date A	nalyzed: (	06/26/2018	1	ι
Lab Batch ID	<b>Sample:</b> 7657388-1	-BKS	Bate	<b>h #:</b> 1					Matrix: S	Solid		
Units:	mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analy	Chloride by EPA 300	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	257	103	250	255	102	1	90-110	20	
Analyst:	RNL	D	ate Prepar	red: 06/26/201	18	1	1	Date A	nalyzed: (	06/27/2018		ļl
Lab Batch ID	<b>Sample:</b> 7657439-1	-BKS	Bate	<b>h #:</b> 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE / ]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	<b>DY</b>	
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
	-											

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**



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# Project Name: Canvasback 13 FED 002H (61318)

Work Ord	er #: 590231								Pro	ject ID:			
Analyst:	PGM		D	ate Prepar	ed: 06/26/20	18			Date A	nalyzed:	06/26/2018		
Lab Batch I	<b>D:</b> 3054675	Sample: 7657369-1-	BKS	Batc	<b>h #:</b> 1					Matrix:	Solid		
Units:	mg/kg			BLAN	K/BLANK	SPIKE / ]	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	<b>D</b> Y	
	DRO-ORO By SW	/8015B	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
Ana	lytes			[ <b>B</b> ]	[C]	[D]	[E]	Result [F]	[G]				
Diesel F	Range Organics (DRO)		<25.0	100	105	105	100	98.1	98	7	63-139	20	
Analyst:	MIT		D	ate Prepar	red: 06/25/20	18			Date A	nalyzed:	06/26/2018		
Lab Batch I	<b>D:</b> 3054610	Sample: 7657268-1-	BKS	Batc	<b>h #:</b> 1					Matrix:	Solid		
Units:	mg/kg			BLAN	K/BLANK	SPIKE / ]	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	<b>D</b> Y	
T.	PH GRO by EPA 8	015 Mod.	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
TPH-GI	RO		<4.00	20.0	21.8	109	20.0	21.9	110	0	35-129	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 Name: Canvasback 13 FED 002H (61318)

<b>Work Order # :</b> 59023	1						Project II	):				
Lab Batch ID: 30546	80 QC- Sa	ample ID:	589735	-001 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed: 06/26/	2018 Date I	Prepared:	06/26/2	018	An	alyst: F	RNL					
<b>Reporting Units:</b> mg/kg			Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY S	STUDY		
Chlori	de 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
A	nalytes	[A]	[B]	[0]	[D]	[E]	[-]	[G]		,	,	
Chloride		<25.0	250	281	112	250	279	112	1	80-120	20	
Lab Batch ID: 30546	80 QC- Sa	ample ID:	590084	-009 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed: 06/26/	2018 Date I	Prepared:	06/26/2	018	An	alyst: F	RNL					
<b>Reporting Units:</b> mg/kg			Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY S	STUDY		
Chlori	de by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	nalytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		513	250	1820	523	250	1800	515	1	80-120	20	Х
Lab Batch ID: 30546	83 QC- Sa	ample ID:	590231	-005 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed: 06/26/	2018 Date 1	Prepared:	06/26/2	018	An	alyst: F	RNL					
<b>Reporting Units:</b> mg/kg			Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY S	STUDY		
Chlori	de by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	nalytes	[A]	[B]	[U]	-76K [D]	E]	Kesult [F]	-76K [G]	70	70 <b>K</b>	70KPD	
Chloride		1650	250	2390	296	250	2380	292	0	80-120	20	Х

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.

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# Form 3 - MS / MSD Recoveries

### Project Name: Canvasback 13 FED 002H (61318)

Work Order # :	590231						Project II	):				
Lab Batch ID:	3054770	QC- Sample ID:	590231	-014 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	06/27/2018	Date Prepared:	06/26/2	018	Ar	alyst: F	RNL					
<b>Reporting Units:</b>	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERYS	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample Posult [F]	Spiked Dup. % P	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	[B]		[D]	[E]	Kesun [F]	[G]	/0	701	70KI D	
Chloride		292	250	685	157	250	635	137	8	80-120	20	X
Lab Batch ID:	3054770	QC- Sample ID:	590231	-023 S	Ba	tch #:	1 Matrix	<b>::</b> Soil				
Date Analyzed:	06/27/2018	Date Prepared:	06/26/2	018	Ar	alyst: F	RNL					
<b>Reporting Units:</b>	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERYS	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %B	Control Limits %RPD	Flag
	Analytes	[A]	[B]	[0]	[D]	[E]	itesuit [1]	[G]		/01		
Chloride		370	250	673	121	250	637	107	5	80-120	20	Х
Lab Batch ID:	3054675	QC- Sample ID:	590084	-002 S	Ba	tch #:	1 Matrix	: Soil	-			-
Date Analyzed:	06/26/2018	Date Prepared:	06/26/2	018	Ar	alyst: F	PGM					
<b>Reporting Units:</b>	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERYS	STUDY		
D	RO-ORO By SW8015B	Parent Sample Result [A]	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
Diesel Range O	rganics (DRO)	<25.1	100	88.1	88	100	91.9	92	4	63-139	20	

Matrix Spike Percent Recovery  $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD =  $200^{\circ}[(C-F)/(C+F)]$  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.

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# Form 3 - MS / MSD Recoveries

### Project Name: Canvasback 13 FED 002H (61318)

Work Order # :	590231						Project II	):				
Lab Batch ID:	3054610	QC- Sample ID:	590084	-005 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	06/26/2018	Date Prepared:	06/25/2	018	An	alyst: N	AIT					
<b>Reporting Units:</b>	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	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		<3.97	19.8	17.2	87	20.0	16.3	82	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.

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				590231	Matrix Cordes		W = Water	S = Soil/Sed/Solid GW =Ground Water	DW = Drinking Water P = Product	SW = Surface water	SL = Sludge OW =Ocean/Sea Water	WI = Wipe	U = UI WW= Waste Water	A = Air		Field Comments	/	2	3	7		2	L L	¢ , )	Max			bcooper@trcsolutions.com									Cooler Temp. Thermo. Corr. Factor
		.355-0900)	-	Xenco Job #	Information																		-				Notes:	rry@trcsolutions.com	skell@concho.com	nder@trcsolutions.com	el2@concho com		-EX / UPS: Tracking #	Received Rv.	2	Kecelved By:	icable On Ice
		hoenix, Arizona (480			Analytica							0	В 30	8021 IG E	hloric TEX	B. C	×	×	×	×	××	×	×	×				data) ilov	<u>irha</u>	ZCO	- up	2115	FED	VERY Date Time:			Preserved where appl
CUSTODY	f 3	۵.												hber of preserved bottles	ыле 1014 14204 1403 1403 1403 1403						×							Level IV (ruit Data PKg /raw	TRRP Level IV	UST / RG -411			SSESSION INCLIDING COLIDICE DEL	Relinquished By:	2 Relinguished Bv.	4	Custody Seal #
CHAIN OF	Page 1 O	Fexas (210-509-3334)	s (432-704-5251)	VWW.Xenco.com		Project Information	Fed 002H (61318)			0 Becky Haskell			and the second s	Nun	## IC IC IC	Inite Matrix Dottles F Z X	0.00		5:20		(40 S 1	:50 s	00 s	10 s		Data Deliverable Inform	Level II Std DC		Level III Std QC+ Forms	Level 3 (CLP Forms)	TRRP Checklist		W EACH TIME SAMPLES CHANGE PO	eived By:	eived By:	<	Prod Ktimen
		San Antonio, T	Midland, Texas			Project Name/Num	Canvasback 13	Project Location: Eddy Co. NM	Invoice To:	COG Operating C/C		Invoice:	Collection	Collection	ole Date	6/19/2018	6/19/2018	8 6/19/2018	6/19/2018	6100000	0/13/2010 8	0/19/2010 8	6/19/2018 9.	0/19/2010									L SE DOCUMENTED BELO	Te: Rece	le: Rece	3	5
			(						Phone No:	432-466-4450				ction	Sam						6"	2	.9	.9			5 Day TAT	7 Dav TAT		X Contract TAT		f received by 5:00 pm	SAMPLE CUSTODY MUST E	Date Tir	Date Tin	Date Tim	Thent of samples constitutes a value
XENCO	Setting the Standard since 1990	Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300)	59023		Client / Reporting Information	Company Name / Branch:	Company Address:	2057 Commerce Drive Midland, TX 79703	Email:	llowry@trcsolutions.com	Project Contact:	Samplers's Name Joel Lowry		No. Field ID / Point of Colle.		1 HA-1 @ 6"	2 HA-1 @ 1'	3 HA-2 @ 6"	4 HA-2 @ 1'	<sub>к</sub> НА-3 @ 6"	6 HA-3 @ 2'	7 HA-4 @ 6"	, HA-5 @ 6"	6	10		Same Day TAT	Next Day EMERGENCY			3 Day EMERGENCY	TAT Starts Day received by Lab, if	Bellonished by South	- Hold and Samplick	Kelinquished by:	Relinquished by:	itee: Notice: Signature of this document and relinquishn

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Final 1.000



# CHAIN OF CUSTODY

SL = Sludge OW =Ocean/Sea Water bcooper@trcsolutions.com DW = Drinking Water SW = Surface water Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from Eitent company to Xenco, its affinates 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 losses 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 and shall not assume any responsibility for terms will be enforced unless previously negotiated under a fully executed client contract. GW =Ground Wate σ 2 S = Soil/Sed/Solid O = Oil WW= Waste Water J Corr. Factor Matrix Codes P = Product Field Comments W = Water WI = Wipe A = Airm 5065 Cooler Temp. On Ice zconder@trcsolutions.com Xenco Job # lowry@trcsolutions.com FED-EX / UPS: Tracking # Received By: Received By: thaskell@concho.com dneel2@concho.com Analytical Information Phoenix, Arizona (480-355-0900) Notes: Preserved where applicabl Date Time: Date Time: 81508 X3T8 22-13 33 Chloride E 300 × × × × × × × × × SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: |Received By: |Relinquished By: Level IV (Full Data Pkg /raw data) TPH 8015 M Ext NONE НОЭИ <sup>r</sup> of preserved hottles Relinquished By: TRRP Level IV POSHEN UST / RG -411 **Custody Seal** HOBI theres 12204 EONH Data Deliverable Information 916190A UZ/HOP .xenco.com IJН Level III Std QC+ Forms Level 3 (CLP Forms) San Antonio, Texas (210-509-3334) Project Information # of bottles ---~ ----いってい Canvasback 13 Fed 002H (61318) Project Location: TRP Checklist Midland, Texas (432-704-5251) Level II Std QC Matrix COG Operating C/O Becky Haskell s ŝ s s s s s s vo 3 Reserved By Received By: 10:10 9:20 9:40 10:00 10:20 Time 9:50 8:10 8:00 8:20 Project Name/Numbe Eddy Co. NM Collection 6/19/2018 nvoice To: 6/19/2018 6/19/2018 6/19/2018 6/19/2018 6/20/2018 6/20/2018 6/20/2018 6/19/2018 Date nvoice: Sample Depth Date Time: Date Time 1.5 ÷ ë 4 ÷ 9 ř ōο :9 TAT Starts Day received by Lab, if received by 5:00 pm Phone No: 432-466-4450 x Contract TAT 5 Day TAT T Day TAT Field ID / Point of Collection Client / Reporting Information RC Environmental Corporation Dailas Texas (214-902-0300) ilowry@trcsolutions.com Next Day EMERGENCY plers's Name Joel Lowry Hished by Sampler 2 Day EMERGENCY 3 Day EMERGENCY ompany Name / Branc Same Day TAT 2057 Commerce Drive HA-6 @ 4' HA-7 @ 1' ē HA-7 @ 6' N-2 @ 1.5' HA-7 @ 7' HA-7 @ 8' roject Contact: Joel Lowry Company Address: N-1 @ 6" nguished by Relinquished by: HA-6 @ HA-6 @ fidland, TX 79703 mail °. ŝ g ო ი 10 0 Released to Imaging: 11/28/2022 11:55:17 AM

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# CHAIN OF CUSTODY Page 3 of 3

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Dallas Texas (214-902-0300)		fidland, Te	xas (432-7(	4-5251)					Ě	enix, Ar	zona (480	355-0900)				
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	SULL PURC				Contraction of	and a second				1 and	Analytica		2	10	1	
Client / Reporting Information			Proje	ct Informa	tion				-	L					Matrix Codes	
Company name / Branch: TRC Environmental Corporation		roject Name/	lumber: 13 Ead 000	1010101										1		
Company Address: 2057 Commerce Drive		roject Locatio	u:	(01010) 1										S v {	= Water = Soil/Sed/Solid	
Midland, TX 79703									_					56	V =Ground Water V = Drinking Mate	
Email: Phone No: 832.466.4450 432.466.4450	<u>= 0</u>	voice To: DG Operating	C/O Becky H	askell					T					a S	= Product / = Surface water	
Project Contact: Joel Lowry														0 SI	= Sludge / =Ocean/Sea Wat	er
Samplers's Name Joel Lowry	Ī	/olde:							Ext [	0				N C	= Wipe	
		Collection	and the second se	-	1	Number o	Dreserved	hottles	M S	54B	<u></u>			5.≧	- UII V= Waste Water	
No. Field ID / Point of Collection	Sample			#	i of	nZ/HC efate 503	HC	HC	108 H	Ioride	00.10			A	= Air	Τ
1 S-1 @ 6"	epill	/20/2018	Time	Matrix bot	HC	NH NH	Den Den	MEN	TF	43 Ch				Field C	omments	
2 S-2 @ 3.5'	9	/20/2018	8.50		+	+	+	+		×				bt	81 -	Γ
3 E-1 @ 6"	6 6	/20/2018	9.40 7.0	, v		-	-			×				appl	19	
4 E-2 @ 1.5'	ů v	/20/2018	06:8		+	-	+			×				TEMO	000	Γ
5 E-3 @ 3.5'		20/2018	10:00	, ,	+		+	_		×				V 22	0	Τ
6 W-1 @ 6"	.e.s	000010	10:10		+	-				×				to	2	T
7 W-2 @ 6"		010202	10:20	s	+	_				×				5 th	20	Т
。 W-3 @ 6"	0 0 0	010707	10:30	s						×				1 to	24	Т
° W-4@6"	<b>6</b>	0107/07	10:40	s.	-+		-			×				t's	25	Т
)))	<b>6</b> "	8102/02	10:50	s	_	-				×				10	20	T
2										_				0	5	Т
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Next Day EMERGENCY				00110		] [			/raw ga	a	MOI	Y@trcsolutions.co	εί	pcoo	per@trcsolutions.co	mo
	+			ו פום לכ	rorms		TRRP Leve	2			Thas	<u>kell@concho.com</u>				Г
			Level	(CLP For	us)		UST / RG -4	11			ZCOL	der@trcsolutions	mo			Т
3 Day EMERGENCY			TRRP (	checklist							dner	D@concho com				Т
TAT Starts Day received by Lab, if received by 5:00	md															
Relinquished hy Sampler USTOD	MUST BE DOCI	JMENTED BE	LOW EACH T	ME SAMPI	ES CHANG	E POSSESS	ON, INCLUD	NG COURIE	R DELIVE	>0	LEU	EX / UPS: Trackin	#			
1 2 2 minutes	ate lime:	<u> </u>	eceived By:			er.	elinquished	By:		Date	Time:	Received B				П
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Relinquished by: 6	ate Time:		objyed By:	1		11	istody Seal	e #	E [	eserved	vhere appli	able 4	In Ice Cooley	Therm	o. Corr. Factor	
Notice: Notice: Signature of this document and relinquishment of samples constitut any losses or expenses incurred by the Client if such loses are due to circumation.	is a valid purcha	se order from	client company	to Xenco, i	s affiliates a	of subcontra	ctors. It assig	-22-12		Ś			7	M.	K J	-
terms will be enforced unless previously negotiated under a fully executed client co	e reyond the contract.	III OI AENCO.	A minimum cł	arge of \$75	will be appli	ed to each pr	iject. Xenco's	liability will b	e limited to	the cost o	f samples. An	so will be liable only f samples received by	r the cost of samples a Xenco but not analyze	ind shall not assume	any responsibility for	1

### Received by OCD: 11/28/2022 11:49:56 AM

Released to Imaging: 11/28/2022 11:55:17 AM

Final 1.000

Received by OCD: 11/28/2022 11:49:56 AM

BORATORIES

# **XENCO** Laboratories



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

Client: TRC Date/ Time Received: 06/22/2018 03:00:00 PM Work Order #: 590231 Sample Receipt Checklist 4.7 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6\*Custody Seals Signed and dated? N/A #7 \*Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes

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

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

Analyst:

PH Device/Lot#:

Date: 06/24/2018

Checklist completed by: Checklist reviewed by: Kelsev Brooks

Date: 06/25/2018

Solutions, Inc
B

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

Comments

Temperature Measuring device used : IR-3



October 25, 2018

REBECCA HASKELL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CANVASBACK 13 FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 10/24/18 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager


COG OPERATING REBECCA HASKELL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/24/2018	Sampling Date:	10/24/2018
Reported:	10/25/2018	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: HA - 1B @ SURFACE (H803057-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.7 9	69.8-142	?						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/25/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	97.1 \$	% 41-142							
Surrogate: 1-Chlorooctadecane	85.9 9	37.6-147	7						

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING REBECCA HASKELL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/24/2018	Sampling Date:	10/24/2018
Reported:	10/25/2018	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: HA - 2B @ SURFACE (H803057-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.6 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/25/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	13.8	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	89.9 9	% 41-142							
Surrogate: 1-Chlorooctadecane	83.4 9	37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING REBECCA HASKELL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/24/2018	Sampling Date:	10/24/2018
Reported:	10/25/2018	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: HA - 3B @ SURFACE (H803057-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.7	69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	100 9	% 41-142							
Surrogate: 1-Chlorooctadecane	88.8	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING REBECCA HASKELL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/24/2018	Sampling Date:	10/24/2018
Reported:	10/25/2018	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: HA - 4B @ SURFACE (H803057-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/25/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	94.8 9	% 41-142							
Surrogate: 1-Chlorooctadecane	86.8 9	37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING REBECCA HASKELL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/24/2018	Sampling Date:	10/24/2018
Reported:	10/25/2018	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: HA - 6B @ SURFACE (H803057-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.0 %	69.8-14.	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	10.1	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	90.4 %	% 41-142							
Surrogate: 1-Chlorooctadecane	81.0 %	37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING REBECCA HASKELL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/24/2018	Sampling Date:	10/24/2018
Reported:	10/25/2018	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

### Sample ID: HA - 7B @ SURFACE (H803057-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	2.05	102	2.00	0.757	
Toluene*	<0.050	0.050	10/25/2018	ND	1.95	97.5	2.00	0.0918	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.94	97.0	2.00	0.831	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.84	97.3	6.00	0.672	
Total BTEX	<0.300	0.300	10/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.7 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/25/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2018	ND	194	96.9	200	1.34	
DRO >C10-C28*	17.0	10.0	10/25/2018	ND	207	103	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	10/25/2018	ND					
Surrogate: 1-Chlorooctane	95.5 %	% 41-142							
Surrogate: 1-Chlorooctadecane	87.6%	37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Sampler - UPS - Bus - Other:

Project Manager: Joel Lowry Company Name: TRC Solutions Project Location: Project Name: Phone #: 432-466-4450 city: Midland Project #: Address: Relinquished By: Sampler Name: snayses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in witing and received by Cardinal within 30 days after completion of the applicable arrive. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation business intermining force of two and are arrived and are arrived to the applicable arrive. Relinquished By: Delivered By: (Circle One) FOR LAB USE ONLY Lab I.D. 80208 † Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 10 Desta Drive Suite 150E N 6 Convas Dac HA-30 @ st r HA-YAQ SUN 44-6BQ 501 HA-20@Sur HA-7 B@ 501 HA-10/2 501 Sample I.D Fax #: Time: 45 Project Owner: 3 Date: Time: State: Date: 16-24-10 Federa 200 TX Zip: ちま 0 0 5 5 0 6 (G)RAB OR (C)OMP Received By: Received By: # CONTAINERS 108# 79705 GROUNDWATER Cool Intact of whether such claim is based upon any of the above stated Sample Condition NASTEWATER MATRIX 22 22 SOIL 8 × OIL SLUDGE State: City: Attn: P.O. #: OTHER : Fax #: Phone #: Address: Company: ACID/BASE PRESERV. CE / COOL j. 88 CHECKED BY: 7 2 > ~ OLTING (Initials) OTHER 606 Zip: 10-24-18 DATE SAMPLING Phone Result: Fax Result: REMARKS: 2:35 5:55 5:50 2:50 RHARKELLO BCOOPEL @JRC SOLUTIONS, CON Z CONDER @ TRESDLUTIONS. COM 5:45 2: 40 BRAZIFFINE TRE Sourtons, Com TIME 8 > Yes
No
Add'I Phone #:
Add'I Fax #: 8 TEX 8 GNCHO. Con ANALYSIS REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

y ysa



Page 44 of 90

Laboratories

Page 9 of 9

### Received by OCD: 11/28/2022 11:49:56 AM



April 15, 2019

IKE TAVAREZ

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CANVASBACK 13 FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 04/12/19 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A1 - FL1 @ 1' (H901367-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/15/2019	ND	400	100	400	3.92	

### Sample ID: A1 - FL2 @ 1' (H901367-02)

Chloride, SM4500CI-B mg/kg		/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/15/2019	ND	400	100	400	3.92	

### Sample ID: A1 - FL3 @ 1' (H901367-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2019	ND	1.95	97.5	2.00	1.19	
Toluene*	<0.050	0.050	04/15/2019	ND	1.91	95.3	2.00	1.24	
Ethylbenzene*	<0.050	0.050	04/15/2019	ND	2.03	102	2.00	2.39	
Total Xylenes*	0.221	0.150	04/15/2019	ND	6.33	106	6.00	2.63	
Total BTEX	<0.300	0.300	04/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



04/12/2010

### Analytical Results For:

COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE 04/12/2019 04/15/2019 Sampling Date: 04/15/2019

04/12/2019	Sampling Date.	04/12/2019
04/15/2019	Sampling Type:	Soil
CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
308403	Sample Received By:	Tamara Oldaker
EDDY COUNTY		
	04/12/2019 04/15/2019 CANVASBACK 13 FEDERAL #2H 308403 EDDY COUNTY	04/12/2019Sampling Date.04/15/2019Sampling Type:CANVASBACK 13 FEDERAL #2HSampling Condition:308403Sample Received By:EDDY COUNTY

### Sample ID: A1 - FL3 @ 1' (H901367-03)

Docoivod:

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2019	ND	198	99.1	200	4.68	
DRO >C10-C28*	<10.0	10.0	04/15/2019	ND	188	93.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	04/15/2019	ND					
Surrogate: 1-Chlorooctane	98.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	94.1	% 37.6-14	7						

### Sample ID: A1 - FL4 @ 1' (H901367-04)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/15/2019	ND	400	100	400	3.92	

### Sample ID: A1 - NW @ 6" (H901367-05)

Chloride, SM4500CI-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/15/2019	ND	400	100	400	3.92	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A1 - EW @ 6" (H901367-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2019	ND	1.95	97.5	2.00	1.19	
Toluene*	<0.050	0.050	04/15/2019	ND	1.91	95.3	2.00	1.24	
Ethylbenzene*	<0.050	0.050	04/15/2019	ND	2.03	102	2.00	2.39	
Total Xylenes*	<0.150	0.150	04/15/2019	ND	6.33	106	6.00	2.63	
Total BTEX	<0.300	0.300	04/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2019	ND	198	99.1	200	4.68	
DRO >C10-C28*	<10.0	10.0	04/15/2019	ND	188	93.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	04/15/2019	ND					
Surrogate: 1-Chlorooctane	97.3 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.7 9	37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	C II P A Fi	COG OPERA KE TAVARE P. O. BOX 10 RTESIA NM Tax To:	TING Z 630 1, 88210 NONE			
Received:	04/12/2019			Sampling Date:	C	4/12/2019
Reported:	04/15/2019			Sampling Type:	S	Soil
Project Name:	CANVASBACK 13 FEDE	RAL #2H		Sampling Condition:	C	Cool & Intact
Project Number:	308403			Sample Received By:	Т	amara Oldaker
Project Location:	EDDY COUNTY					

### Sample ID: A1 - SW @ 6" (H901367-07)

Chloride, SM4500CI-B	mg/	kg	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/15/2019	ND	400	100	400	3.92	

### Sample ID: A1 - WW @ 6" (H901367-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/15/2019	ND	400	100	400	3.92	

### Sample ID: A2 - FL1 @ 1.5' (H901367-09)

Chloride, SM4500CI-B	mg,	/kg	Analyzed	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	04/15/2019	ND	400	100	400	3.92	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A2 - FL2 @ 1.5' (H901367-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2019	ND	1.95	97.5	2.00	1.19	
Toluene*	<0.050	0.050	04/15/2019	ND	1.91	95.3	2.00	1.24	
Ethylbenzene*	<0.050	0.050	04/15/2019	ND	2.03	102	2.00	2.39	
Total Xylenes*	<0.150	0.150	04/15/2019	ND	6.33	106	6.00	2.63	
Total BTEX	<0.300	0.300	04/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/15/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2019	ND	198	99.1	200	4.68	
DRO >C10-C28*	<10.0	10.0	04/15/2019	ND	188	93.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	04/15/2019	ND					
Surrogate: 1-Chlorooctane	101 %	6 41-142							
Surrogate: 1-Chlorooctadecane	97.5 %	37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE		
Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A2 - FL3 @ 1.5' (H901367-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/15/2019	ND	400	100	400	3.92	

### Sample ID: A2 - FL4 @ 1.5' (H901367-12)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	04/15/2019	ND	400	100	400	3.92	

### Sample ID: A2 - NW @ 9" (H901367-13)

Chloride, SM4500Cl-B	mg/l	(g	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A2 - EW1 @ 9" (H901367-14)

Chloride, SM4500Cl-B	mg/l	(g	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/15/2019	ND	400	100	400	0.00	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A2 - EW2 @ 9" (H901367-15)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2019	ND	1.95	97.5	2.00	1.19	
Toluene*	<0.050	0.050	04/15/2019	ND	1.91	95.3	2.00	1.24	
Ethylbenzene*	<0.050	0.050	04/15/2019	ND	2.03	102	2.00	2.39	
Total Xylenes*	<0.150	0.150	04/15/2019	ND	6.33	106	6.00	2.63	
Total BTEX	<0.300	0.300	04/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2019	ND	198	99.1	200	4.68	
DRO >C10-C28*	<10.0	10.0	04/15/2019	ND	188	93.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	04/15/2019	ND					
Surrogate: 1-Chlorooctane	<b>99</b> .7 9	% 41-142							
Surrogate: 1-Chlorooctadecane	96.0 9	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	COG OF	PERATING		
	IKE TAV	VAREZ		
	P. O. B	OX 1630		
	ARTESI	A NM, 88210		
	Fax To:	NONE		
Received:	04/12/2019		Sampling Date:	04/12/2019
Reported:	04/15/2019		Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #	2H	Sampling Condition:	Cool & Intact
Project Number:	308403		Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY			

### Sample ID: A2 - SW @ 9" (H901367-16)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A2 - WW1 @ 9" (H901367-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A2 - WW2 @ 9" (H901367-18)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - FL1 @ 1' (H901367-19)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - FL2 @ 1' (H901367-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/15/2019	ND	400	100	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keene

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A3 - FL3 @ 1' (H901367-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2019	ND	400	100	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A3 - FL4 @ 1' (H901367-22)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2019	ND	1.95	97.5	2.00	1.19	
Toluene*	<0.050	0.050	04/15/2019	ND	1.91	95.3	2.00	1.24	
Ethylbenzene*	<0.050	0.050	04/15/2019	ND	2.03	102	2.00	2.39	
Total Xylenes*	<0.150	0.150	04/15/2019	ND	6.33	106	6.00	2.63	
Total BTEX	<0.300	0.300	04/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	04/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2019	ND	198	99.1	200	4.68	
DRO >C10-C28*	<10.0	10.0	04/15/2019	ND	188	93.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	04/15/2019	ND					
Surrogate: 1-Chlorooctane	95.1 9	% 41-142							
Surrogate: 1-Chlorooctadecane	91.0 \$	37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	COG OPERATING		
	IKE TAVAREZ		
	P. O. BOX 1630		
	ARTESIA NM, 88210		
	Fax To: NONE		
Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A3 - FL5 @ 1' (H901367-23)

Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - FL6 @ 1' (H901367-24)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - FL7 @ 1' (H901367-25)

Chloride, SM4500Cl-B	mg/k	(g	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - FL8 @ 1' (H901367-26)

Chloride, SM4500Cl-B	mg/l	g	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/15/2019	ND	400	100	400	0.00	

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A3 - FL9 @ 1' (H901367-27)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2019	ND	1.95	97.5	2.00	1.19	
Toluene*	<0.050	0.050	04/15/2019	ND	1.91	95.3	2.00	1.24	
Ethylbenzene*	<0.050	0.050	04/15/2019	ND	2.03	102	2.00	2.39	
Total Xylenes*	<0.150	0.150	04/15/2019	ND	6.33	106	6.00	2.63	
Total BTEX	<0.300	0.300	04/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2019	ND	198	99.1	200	4.68	
DRO >C10-C28*	<10.0	10.0	04/15/2019	ND	188	93.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	04/15/2019	ND					
Surrogate: 1-Chlorooctane	93.5 9	% 41-142							
Surrogate: 1-Chlorooctadecane	91.19	37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210		
	Fax To: NONE		
Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A3 - FL10 @ 1' (H901367-28)

Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - NW @ 6" (H901367-29)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - EW1 @ 6" (H901367-30)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - EW2 @ 6" (H901367-31)

Chloride, SM4500Cl-B	SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/15/2019	ND	400	100	400	0.00	

### Sample ID: A3 - SW @ 6" (H901367-32)

Chloride, SM4500Cl-B	500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2019	ND	400	100	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A3 - WW1 @ 6" (H901367-33)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2019	ND	1.95	97.5	2.00	1.19	
Toluene*	<0.050	0.050	04/15/2019	ND	1.91	95.3	2.00	1.24	
Ethylbenzene*	<0.050	0.050	04/15/2019	ND	2.03	102	2.00	2.39	
Total Xylenes*	<0.150	0.150	04/15/2019	ND	6.33	106	6.00	2.63	
Total BTEX	<0.300	0.300	04/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2019	ND	198	99.1	200	4.68	
DRO >C10-C28*	<10.0	10.0	04/15/2019	ND	188	93.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	04/15/2019	ND					
Surrogate: 1-Chlorooctane	99.8 %	6 41-142							
Surrogate: 1-Chlorooctadecane	96.3 %	6 37.6-14	7						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING IKE TAVAREZ P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	04/12/2019	Sampling Date:	04/12/2019
Reported:	04/15/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	308403	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

### Sample ID: A3 - WW2 @ 6" (H901367-34)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/15/2019	ND	400	100	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ase 1 of @ 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST





Received by OCD: 11/28/2022 11:49:56 AM



## Laboratories

ase 3 at

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



ase 4 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

city: Midland Project Location: Project Name: Address: Project Manager: Company Name: Project #: Phone #: Sampler Name: Relinquished B ervice. In no event shall Cardinal inalyses. All claims including those for FOR LAB USE ONLY Sampler - UPS - Bus - Other: **Relinquished By** Lab I.D. EASE NOTE: Lia Delivered By: (Circle One) Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 4 7 10 Desta Drive Suite 150E 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 A3-50 @ **TRC Solutions** 3-wwre 3- WW7 -Ewj Sample I.D. and any 06' 5 9 Fax #: Project Owner: State: Date: 40 Time: I ime: 5 12-18 TX including 0. shall be Zip: 64 (G)RAB OR (C)OMP  $\cup \cup \cup$ without im 5 **Received By** Received # CONTAINERS 79705 GROUNDWATER Cool Intact WASTEWATER emara Sample Condition MATRIX SSet nade in wa  $\times \times \times \times$ SOIL OIL ting and rec SLUDGE P.O. #: State: City: Attn: Ioss Address Company: OTHER Fax #: Phone #: 9 ACID/BASE PRESERV CISK 20 ICE / COOL CHECKED BY: Sol BILL OTHER (Initials) Zip within 30 days after DATE SAMPLING 70 ŝ red by client, its subsidiaries paid by the client for the Phone Result: Fax Result: REMARKS: 1:20 1:30 01:10 8 completion of the ap TIME Lloride E300 SDI □ Yes 24 HR Turnaron RUSH I No ANALYSIS Add'l Fax #: Add'l Phone #: 8015 A Explain  $\times$ REQUES 8621 BTEX X

Page 21 of 21



April 17, 2019

JARED STOFFEL TRC 10 DESTA DR. SUITE 150 E MIDLAND, TX 79705

**RE: CANVASBACK 13** 

Enclosed are the results of analyses for samples received by the laboratory on 04/17/19 14:07.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



\_\_\_ \_

		TRC JARED STOFFEL 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:		
Received:	04/17/2019		Sampling Date:	04/16/2019
Reported:	04/17/2019		Sampling Type:	Soil
Project Name:	CANVASBACK 13		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	JAL, NM			

### Sample ID: A3-FL-1 @ 1.5' (H901393-01)

Chloride, SM4500Cl-B	mg/	'kg	Analyzed	i By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/17/2019	ND	416	104	400	3.77	

### Sample ID: A3-FL-2 @ 1.5' (H901393-02)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	04/17/2019	ND	416	104	400	3.77	

### Sample ID: A3-FL-4 @ 1.5' (H901393-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	04/17/2019	ND	416	104	400	3.77	

### Sample ID: A2-FL-1 @ 4' (H901393-04)

Chloride, SM4500Cl-B	mg/	kg	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	04/17/2019	ND	416	104	400	3.77	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TRC JARED STOFFEL 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705 Fax To:

Received:	04/17/2019	Sampling Date:	04/17/2019
Reported:	04/17/2019	Sampling Type:	Soil
Project Name:	CANVASBACK 13	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NM		

### Sample ID: A2-FL-4 @ 4' (H901393-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/17/2019	ND	416	104	400	3.77	

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

### Received by OCD: 11/28/2022 11:49:56 AM

101 East Marland, Hobbs, NM 88240		
(575) 393-2326 FAX (575) 393-2476 Company Name: イロノ		
Project Manager: Jored Stoffel	P.O. #	
Address: 10 Desta DV. STE 150 E	company: COC	
city: Midland State: TX Zip: 7970	5 Attn: Becky Huskell	
Phone #: 432 - 238 - 3003 Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name: CANVUS back 13	State: Zip:	
Project Location: JOI, NM	Phone #:	
Sampler Name: Tania Baby	Fax #:	
FOR LAB USE DNLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D. RAB OR (C)OMP CONTAINERS COUNDWATER	IL JDGE HER: ID/BASE: :/ COOL HER:	
1 A3-FL-1 (2 1,5) C 1 S # 0 S		
2 A3-FL-2 @ 1.5' C 1	X X 4-16-19 1250 X	
3 A3-FL-4@1.5' CI	X X 4-16-19 1300 X	
4 A2-FL-1@4' CI	X X 4-16-19 1430 X	
5 AZ- FL-4 @ 4" C 1	X X 4-17-19 1145 X	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether analyses. All claims including those for negligence and any other cause whatsoever shalb ad demod waived users service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, busine affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, resardless of whe	r based in contract or tort, shall be limited to the amount paid by the client for the mode in writing and received by Cardinal within 30 days after completion of the applicab reas interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, hether such claim is based unon any of the above stated reasons or otherwise.	
Timila Bahu Time:	Phone Result: Fax Result: REMARKS:	□ Yes □ No Add'I Phone #: □ Yes □ No Add'I Fax #:
Relinquished By: Date : 0 7/C Begetved By:	- Jucture Rus	n verbals to Javed (432)238-3003
Delivered By: (Circle One) Sampler - UPS - Bus - Other: $84^{\circ}/497$	nple Condition CHECKEC BY: ol Intact Yes Yes (Intiats) No No	
	0	

### CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Released to Imaging: 11/28/2022 11:55:17 AM

### Analytical Report 621816

for TRC Solutions, Inc

**Project Manager: Jared Stoffel** 

**Canvasback 13** 

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### 23-APR-19

Collected By: Client





### 1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429), North Carolina (483) Xenco-Lakeland: Florida (E84098)





23-APR-19

Project Manager: **Jared Stoffel TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 621816 Canvasback 13 Project Address: ---

### Jared Stoffel:

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) 621816. 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. 621816 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,

Kalei Stout Midland Laboratory Director

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 621816



### TRC Solutions, Inc, Midland, TX

Canvasback 13

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
A3-FL-2 @ 4'	S	04-18-19 09:05	4 ft	621816-001
A3-FL-4 @ 4'	S	04-18-19 08:55	4 ft	621816-002

Version: 1.%



## CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Canvasback 13

Project ID: ---Work Order Number(s): 621816 Report Date: 23-APR-19 Date Received: 04/22/2019

#### Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Project Id:---Contact:Jared StoffelProject Location:---

Certificate of Analysis Summary 621816

TRC Solutions, Inc, Midland, TX Project Name: Canvasback 13



Date Received in Lab:Mon Apr-22-19 10:26 amReport Date:23-APR-19Project Manager:Kalei Stout

	Lab Id:	621816-00	)1	621816-0	002		
Are alwain Do an orted	Field Id:	A3-FL-2 @	4'	A3-FL-4	@ 4'		
Analysis Requested	Depth:	4- ft		4- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Apr-18-19 09	9:05	Apr-18-19	08:55		
Chloride by EPA 300	Extracted:	Apr-22-19 14	4:00	Apr-22-19	14:00		1
	Analyzed:	Apr-22-19 1	9:37	Apr-22-19	19:43		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		4130	49.9	616	4.99		

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 - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Kalei Stout Midland Laboratory Director



# LABORATORIES

# **Flagging Criteria**



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



## **BS / BSD Recoveries**



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#### Project Name: Canvasback 13

Work Order	·#: 621816							Proj	ect ID: -			
Analyst:	CHE	Da	ate Prepar	red: 04/22/201	9		<b>Date Analyzed:</b> 04/22/2019					
Lab Batch ID:	: 3086555 Sample: 767	6296-1-BKS	Bate	<b>h #:</b> 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE / I	BLANK	SPIKE DUPI	LICATE	RECOVI	ERY STUI	)Y	
Analy	Chloride by EPA 300	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		<5.00	250	251	100	250	248	99	1	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

Version: 1.%



## Form 3 - MS / MSD Recoveries

#### **Project Name: Canvasback 13**



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Work Order # :	621816						Project II	):				
Lab Batch ID:	3086555	QC- Sample ID:	621249	-004 S	Ba	tch #:	1 Matrix	<b>x:</b> Soil				
Date Analyzed:	04/22/2019	Date Prepared:	04/22/2	019	An	alyst: (	CHE					
<b>Reporting Units:</b>	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample Besult [F]	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	[B]		<sup>7</sup> 0K [D]	E]	Kesun [F]	56K [G]	70	70K	<sup>7</sup> 0KPD	
Chloride		791	250	1020	92	250	1010	88	1	90-110	20	X
Lab Batch ID:	3086555	QC- Sample ID:	621249	-008 S	Ba	tch #:	1 Matrix	<b>k:</b> Soil				
Date Analyzed:	04/22/2019	Date Prepared:	04/22/2	019	An	alyst: (	CHE					
<b>Reporting Units:</b>	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample Besult [F]	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	[A]	[B]	[C]	70K [D]	[E]	Kesult [F]	[G]	/0	70K	70KPD	
Chloride		457	250	713	102	250	697	96	2	90-110	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 8 of 10

Notice: Signature of this document and relinquishment of samples co of service. Xenco will be liable only for the cost of samples and shall of Xenco. A minimum charge of \$75.00 will be applied to each projec Rejiaquished by: (Signature) Receive	Total 200.7 / 6010     200.8 / 6020:     8F       Circle Method(s) and Metal(s) to be analyzed     8F	Project Number:       From the state of th	Project Manager: JELLY STORIES Address: IO DESTA DE STE City, State ZIP: MILLANE, TX 74705 Phone: (432) 238 - 3003
Institutes a valid purchase order from client company to Xenco, its affiliates and subcontron to assume any responsibility for any losses or expenses incurred by the client if such to t and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms we do by: (Signature)  Date/Time Relinquished by Date/Time Relinquished by CDA 4 6	RCRA 13PPM Texas 11 AI Sb As Ba Be Cd Ca Cr Co Cu	Routine Rush: 24 hr tar Due Date: 4/23/4 Due Date: 4/23/4 Thermometer up Thermometer up CGSS 44 A A A A A A A A A A A A A A A A A A A	Chain of Custody         Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210)         Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)73         NM (575-392-7550) Phoenix, AZ (480-355-0800) Atlanta, GA (770-449-8800) Tamp         Bill to: (If afferent)       Bill to: (If afferent)         VSCE       Address:         Company Name:       C.O.(-         Local Lip:       Cotty, State ZIP:         Email:       5.31-G.C.V. P. Kc.Sol J. Lip: Nr.5. (cs.m.)         Turn Anumal       AMALYSIS
ectors. It assigns standard terms and conditions sses are due to circumstances beyond the control III be enforced unless previously negotiated. (Signature) Received by: (Signature) Date/Time Revised Date 051418 Rev. 2018.	u Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg	TAT starts the day recevied by the lab, lf received by 4:30pm Sample Comments	Work Order No: UST/QUU         S09-3334         Work Order No: UST/QUU         A4-1296         Page 1 of 1         Mork Order Comments         Program: UST/PST PRP Brownfields RRC Superfund         State of Project:         Reporting:Level II Clevel III PST/UST TRRP Clevel IV         Deliverables: EDD Clevel II Clevel II Clevel IV         Mork Order Notes

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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: 04/22/2019 10:26:00 AM Temperature Measuring device used : R8 Work Order #: 621816 Comments Sample Receipt Checklist #1 \*Temperature of cooler(s)? .4 #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)? N/A #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: Bill Tul Brianna Teel Checklist reviewed by: Kalei Stout

Date: 04/22/2019

Kalei Stout

Date: 04/22/2019



Photo 2- View of affected area and above ground pipelines, facing North.



Photo 4 - View of excavated area A2 facing southeast (4/17/19).



Photo 5 - View of excavated area A3 facing southwest (4/16/19).



Photo 6 - View of excavation to four ft. bgs in area A3 facing northeast (4/18/19).



**Photo 7** - View of the remediated area facing south (4/18/19).



Photo 8 - View of remediated area facing southeast (4/18/19).

Received	by	<b>OCD:</b>	11/28/2	022 11	:49:56 AM
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RECEIVED

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District I     Sta       1625 N. French Dr., Hobbs, NM 88240     Energy Min       District II     Energy Min	te of New Merals and Na	Iexico tural Resource	JUN 1	4 2018	Form C-141 Revised April 3, 2017	
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	onservation South St. Fi nta Fe, NM	Division <b>DIS</b> ancis Dr. 87505	STRICT HA		Cordance with 19.15.29 NMAC.	
Release Notific	ation and	Corrective	e Action	Ì		
DARISITISDI39	OPE	RATOR		🖂 Initia	l Report 🗍 Final Report	
Name of Company: COG Production, LLC (OGRID #21795	5) Contact	:	Robert Mcl	Neill	·····	
Address: 600 West Illinois Avenue, Midland, TX 79701	Telepho	one No.	432-683-74	43		
Facility Name: Canvasback 13 Federal #002H	Facility	Type: Flowline	2			
Surface Owner: Federal Mineral O	wner: Fede	al		API No.	. 30-015-40538	
LOCA	TION OF	RELEASE				
Unit Letter Section Township Range Feet from the	North/South L	ine Feet from	the East/V	West Line	County	
<u>I</u> 13 24S 31E					Eddy	
Latitude 32.2148	31 Longitud	e -103.722968 N	NAD83			
NAT	URE OF R	ELEASE				
Type of Release	Volur	ne of Release		Volume R	ecovered	
Produced Water		25 bbl.		Dund	0 bbl	
Flowline Leak	June	3. 2018 2:00pm	irrence	June 13, 2	018 2:00pm	
Was Immediate Notice Given?	If YE	S, To Whom?				
Yes 🗌 No 🔲 Not Rea	uired Mike	Mike Bratcher – NMOCD				
	Henry	Henryetta Price - BLM				
By Whom? Sheldon Hitchcock	Date	and Hour: June 1	3, 2018 4:08	pm		
Was a Watercourse Reached?	If YE	If YES, Volume Impacting the Watercourse.				
			,			
If a Watercourse was Impacted, Describe Fully.*						
					Ľ.	
Describe Cause of Problem and Remedial Action Taken.*				···		
The release was caused by a flowline runture. The flowline is being	replaced.					
Describe Area Affected and Cleanup Action Taken.*	, replaced.	·			······	
The release was in the pasture. A vacuum truck was dispatched to possible impact from the release and we will present a remediation	remove all free work plan to the	standing fluids. C	oncho will h pproval prior	ave the spill to any sign	area sampled to delineate any ificant remediation activities.	
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain re-	ete to the best of lease notification	f my knowledge	and understa	nd that purs	uant to NMOCD rules and	
public health or the environment. The acceptance of a C-141 repo	t by the NMO	D marked as "Fi	nal Report" of	lons for rele	eve the operator of liability	
should their operations have failed to adequately investigate and re	mediate contar	ination that pose	a threat to g	round water	, surface water, human health	
or the environment. In addition, NMOCD acceptance of a C-141 r	eport does not	elieve the operate	or of respons	ibility for co	ompliance with any other	
		OIL C	ONSERV	ATION	DIVISION	
Signatures Dollars Canada				\$1		
Signature	A		lizned By:	Aller.	Dresonus	
Printed Name: DeAnn Grant	Арріом		пат эрестань	41		
Title: HSE Administrative Assistant	Approv		5/18	Expiration I	Date: N/A	
E-mail Address: agrant@concho.com	Conditio	ons of Approval:	e) atta	aenas	Attached Attached 1012	
Date: June 14, 2018 Phone: (432) 253-45	13				AKV-40/0	
Attach Additional Sheets If Necessary						

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State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-4813
Facility ID	
Application ID	

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔳 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔳 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗋 Yes 🔳 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔳 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔳 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔳 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗍 Yes 🔳 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔳 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔳 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔳 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔳 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Form C-141 Page 4	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	2RP-4813
I hereby certify that the inf regulations all operators ar public health or the envirou failed to adequately investi addition, OCD acceptance and/or regulations.	ormation given above is true and complete to e required to report and/or file certain release ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a of a C-141 report does not relieve the operato	the best of my know notifications and pe be OCD does not re threat to groundwat r of responsibility for	wledge and understand that pur rform corrective actions for rel lieve the operator of liability sl ter, surface water, human health or compliance with any other for	suant to OCD rules and leases which may endanger hould their operations have h or the environment. In ederal, state. or local laws
Signature: Rebecco	Harhell		5/19	
email: rhaskell@	concho.com	Telephone:	432-818-2372	
OCD Only				
Received by:		Date:		

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State of New Mexico **Oil Conservation Division** 

Incident ID	
District RP	2RP-4813
Facility ID	
Application ID	

# **Remediation Plan**

Domadiation Blas Charleline East out out a	
Remediation Flan Checklist: Each of the following items must be	e included in the plan.
Detailed description of proposed remediation technique	
Scaled sitemap with GPS coordinates showing delineation point	S
Estimated volume of material to be remediated	
Closure criteria is to Table 1 specifications subject to 19.15.29.1	2(C)(4) NMAC
Proposed schedule for remediation (note if remediation plan tim	eline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around pr	oduction equipment where remediation could cause a major facility
deconstruction.	and paper and the constant of the cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet	e to the best of my knowledge and understand that pursuant to OCD
rules and regulations all operators are required to report and/or file c	ertain release notifications and perform corrective actions for releases
liability should their exerctions have filled to a deput	ace of a C-141 report by the OCD does not relieve the operator of
surface water, human health or the environment. In addition OCD	and remediate contamination that pose a threat to groundwater,
responsibility for compliance with any other federal state or local la	cceptance of a C-141 report does not relieve the operator of
Rebase Heakell	
Printed Name: Redecca Haskell	Title: Senior HSE Coordinator
Signature: Reblecca Haskell	Date: 4/25/19
mail rhaskell@concho.com	432-818-2372
	Telephone:
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of A	pproval Denied D Deferred Amount
	Deterral Approved
ail Hall	11/00/0000
Signature: 1 1 Margan I	Date: 11/28/2022

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Received by OCD: 11/28/2022 11:49:56 AM

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-4813	
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 items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC 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 complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rebecca Haskell	Title: Senior HSE Coordinator
Signature: Rebecca Haskell	Date: 4/25/19
email: rhaskell@concho.com	Telephone: 432-818-2372
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the response remediate contamination that poses a threat to groundwate party of compliance with any other federal, state, or local	sible party of liability should their operations have failed to adequately investigate and er, surface water, human health, or the environment nor does not relieve the responsible laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	161588
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

CONDI		
Created By	Condition	Condition Date
bhall	Deferral of contamination located at and around HA-7 approved until retrofit of area or abandonment of site, which ever comes first. Closure of incident not approved until area of HA-7 remediated. A complete closure report for the release will need to be submitted when all remediation is completed.	11/28/2022
bhall	2RP-4813 closed. Please refer to incident #NAB1817150139 for future communication.	11/28/2022

CONDITIONS

Action 161588