

August 3, 2023

Brittany Hall Projects Environmental Specialist New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Release Characterization and Closure Request ConocoPhillips (Heritage Concho) On behalf of Spur Energy Partners, LLC Ronco SWD #001 Release Unit Letter C, Section 19, Township 17 South, Range 30 East Eddy County, New Mexico Incident ID# nAB1803942588

Ms. Hall:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess and evaluate current conditions associated a historical Heritage Concho release that occurred the Ronco SWD #001 lease pad (API No. 30-015-44420). The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 19, Township 17 South, Range 30 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.82563477°, -104.01429692°, as shown on Figures 1 and 2. The Site is located on Bureau of Land Management Land. The Site is currently operated by Spur Energy Partners, LLC (Spur).

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release occurred on February 6, 2018, when the hose from the kill truck to the wellhead failed, resulting in the release of approximately 10 barrels (bbls) of oil. Vacuum trucks were utilized to recover approximately 7 bbls of oil during the initial response. The release occurred on the pad area, as shown on Figure 3. The NMOCD approved the initial C-141 on February 8, 2018, and subsequently assigned the release the Incident ID nAB1803942588. The initial C-141 form is included in Appendix A.

This incident is included in an Agreed Compliance Order-Releases (ACO-R) between COG Operating LLC (Concho) and the NMOCD signed on November 20 and 26, 2018, respectively.

LAND OWNERSHIP

The Site is located on land owned by the Bureau of Land Management (BLM). The remedial extent was confined to on-pad, previously disturbed areas.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, stream bodies, wetlands, incorporated

municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately ½ mile (800 meters) of the site. According to data from one (1) water well listed in the NMOSE database within approximately 1.6 miles (2,567 meters) of the site, the minimum depth to groundwater is 80 feet below ground surface (bgs).

To comply with the NMOCD directive presented in the April 18, 2023, email rejection, a licensed well drilling subcontractor was onsite on June 19, 2023 to drill a groundwater determination borehole (DTW-1) to 55 feet bgs at the northeastern edge of the Ronco SWD #001 lease pad, located approximately 100 feet northeast of the release area. The borehole location is indicated on Figure 4. The borehole was temporarily set and screened using 2-inch PVC well materials: 20 feet of blank casing and 35 feet of 0.010" slotted screen. The borehole was left for 72 hours and checked for the presence of groundwater. The borehole was dry upon drilling, and no water was present in the well after 72 hours. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The site characterization data, boring log, and temporary well diagram are presented in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization, on-pad footprint, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

2018 INITIAL SITE ASSESSMENT

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (Concho) conducted the initial Site assessment activities on August 9, 2018. Two (2) test trenches (T-1 and T-2) were installed on the lease pad to depths of 5 feet and 7 feet bgs, respectively, to determine the vertical extent of the release. Four (4) test trenches (N, E, S, and W) were installed to depths of 1-foot bgs each to determine the horizontal extent of the release.

TRC returned to the site on October 15, 2018, to conduct additional site assessment activities. Two (2) surface soil samples (T1B and T2B) were collected in proximity to and representative of the test trenches T-1 and T-2, as shown in Figure 3. The rationale for going back to the release site and sampling the upper surface (0-6 inches bgs) in March 2023 was that the previously collected trench samples did not indicate impact in the upper foot of material, although located in footprint.

A total of thirteen (13) soil samples were collected from the 6 (six) trenches, as well as the two (2) surface samples, and all were sent to Xenco Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. The laboratory analytical reports are included in Appendix C.

Analytical results associated with sample location T2B exceeded the total TPH RRAL of 2,500 mg/kg. Analytical results from the 2018 initial assessment activities are summarized in Table 1.

TRC summarized the 2018 assessment activities in a Site Assessment Summary and Proposed Remediation Plan dated October 17, 2018. The Remediation Plan proposed excavation of impacted soils within the release margins in the area characterized by test trench T-2 and surface sample T2B to a depth of approximately 1 foot bgs. A copy of the 2018 Remediation Plan is available on the NMOCD online incident files.

The Site Assessment Summary and Proposed Remediation Plan was rejected by NMOCD on April 18, 2023, with the following comments:

- "The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.
- Site ranking criteria cannot be a mixture of the new site ranking criteria (2018) and the old site ranking criteria (1993 guidelines).
- TPH and chloride have not been vertically delineated at T1B and T2B.
- Sampling plan is rejected. Once complete delineation is completed, a new sampling plan can be requested if desired.
- 2RP-4607 closed. Refer to incident #NAB1803942588 in all future communication. Submit a complete report through the OCD Permitting website by 7/18/2023. The report must comply with 19.15.29 NMAC and use the most current version of the C-141."

Regulatory correspondence is included in Appendix D.

2023 ADDITIONAL SITE ASSESSMENT AND SAMPLING RESULTS

On behalf of ConocoPhillips, Tetra Tech reviewed the TRC Work Plan and conducted additional soil sampling at the Site to assess the current soil concentration levels within the reported release footprint prior to remedial action. This occurred before the NMOCD determination was issued. On March 23, 2023, Tetra Tech installed one (1) hand auger boring (T2B-23) to 6 inches bgs in the reported release extent in the area of the 2018 sampling locations T-2 and T2B, as indicated on Figure 4.

One (1) soil sample was collected from T2B-23 and was sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation is included in Appendix C.

Analytical results from the 2023 additional assessment activities are summarized in Table 2. All analytical results were below the applicable Site RRALs for all constituents.

DATA REVIEW

Upon the release rejection, Tetra Tech spent considerable time reviewing the assessment conducted by TRC. After review of the characteristic language found in the TRC Work Plan, it appears that TPH and chloride have indeed been vertically delineated at T1B and T2B. The confusion stems from the graphical representation that TRC chose to use in their original figures and report. The rationale for TRC returning to the site in 2018 and conducting additional site assessment activities was based on the lack of impact observed in the upper soils. The two surface soil samples collected (at roughly 0-6-inch intervals), were intended to supplement and complete the delineation that had previously been conducted at the site for T-1 and T-2. The 2018 "surface" samples were slightly offset from the 2018 trench areas to ensure that the trench spoils were not inadvertently sampled. TRC chose to indicate the sampling locations in the figures

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as being marginally offset from the original T-1 and T-2 locations, however, the "surface" samples were placed adjacent to the former trench locations, as shown in the revised figures found in this report.

CONCLUSION

All previous analytical results associated with the horizontal delineation to the north, east, south, and west of the release area were below the applicable Site RRALs for all constituents. The assessment conducted by TRC did indeed achieve vertical delineation on August 9, 2018, at trench location T-1 and T-2, as detailed in previous sections. The figures in this report were refined to indicate these sample locations.

A depth to groundwater boring was drilled and verified that groundwater is not present at 50 feet bgs or less. The site characterization has been revised, per NMOCD request. Based on contemporaneous sampling of the formerly impacted areas proposed for remediation, the on-pad remedial action approved in the Work Plan is no longer necessary. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment activities for the Site, please call me at (512) 739-7874.

Sincerely, Tetra Tech, Inc.

Samantha Abbott, P.G. Project Manager

Christian M. Llull, P.G. Program Manager

cc: Mr. Ike Tavarez, RMR – ConocoPhillips Mr. Braidy Moulder, Spur Release Characterization and Closure Request August 3, 2023

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LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Initial Assessment (TRC)

Figure 4 – Additional Assessment (Tetra Tech)

Tables:

Table 1 – Summary of Analytical Results – 2018 Initial Soil AssessmentTable 2 – Summary of Analytical Results – 2023 Additional Soil Assessment

Appendices:

Appendix A – C-141 Forms Appendix B – Site Characterization Data Appendix C – Laboratory Analytical Data Appendix D – Regulatory Correspondence

FIGURES

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TABLES

	< 1,000 mg/kg	GRO+DRO	mg/kg				933					9220					
	< 2,500 mg/kg	Total TPH (GRO+DRO+EXT DRO)	mg/kg				1114					14530					
		<u>.</u>	σ									\Box		\Box			
НЧТ		ORO	mg/kg	< 25.0	< 24.9	< 24.9	181	< 24.8	< 25.1	< 24.9	< 25.0	5310	< 25.0	< 25.0	< 25.2	< 25.1	
		0	ď					L				Ц		\square			
		DRG	mg/kg	< 25.0	< 24.9	< 24.9	933	< 24.8	< 25.1	< 24.9	< 25.0	9220	< 25.0	< 25.0	< 25.2	< 25.1	
		0	α				L	L									
		GR	mg/kg	< 3.76	< 3.88	< 3.89	< 7.98	< 3.77	< 3.74	< 3.50	< 3.65	< 7.65	< 3.69	< 3.97	< 3.87	< 3.80	
	ıg/kg	втех	a				L	L									
	< 50 m	Total	mg/kg	< 0.0188	NA	< 0.0195	0.144	< 0.0189	NA	NA	< 0.0182	< 0.0382	NA	Ν	NA	NA	
		tylenes	α	_			μ	L				\mid	μ	\mid	μ	L	
		Total X	mg/kg	< 0.0188	NA	< 0.0195	0.144	< 0.0189	NA	NA	< 0.0182	< 0.0382	NA	NA	NA	NA	
		lene	a				Н	L				Ц		Н		L	
		мх-о	mg/kg	< 0.0188	NA	< 0.0195	< 0.0399	< 0.0189	NA	NA	< 0.0182	< 0.0382	NA	NA	NA	NA	
2X ²		/lenes	α	_			μ	L				\square	μ	\square	μ		irements
BTE		γX-d'ш	mg/kg	< 0.0376	NA	< 0.0389	0.144	< 0.0377	NA	NA	< 0.03.65	< 0.0765	NA	NA	NA	NA	amation Regu
		nzene	ď				L	L									d/or Recl
		Ethylbe	mg/kg	< 0.0188	NA	< 0.0195	< 0.0399	< 0.0189	NA	NA	< 0.0182	< 0.0382	NA	NA	NA	NA	tion RRALs an
		ane	α				Ц	L									Remedia
		Tolue	mg/kg	< 0.0188	NA	< 0.0195	< 0.0399	< 0.0189	NA	NA	< 0.0182	< 0.0382	NA	NA	NA	NA	e of proposed
	g/kg	ene	σ				Ц	L									ceedanc
	< 10 m	Benz	mg/kg	< 0.0188	NA	< 0.0195	< 0.0399	< 0.0189	NA	NA	< 0.0182	< 0.0382	NA	NA	NA	NA	lues indicate e
des ¹	mg/kg	ide	α					L				Ц		Ц			licized val
Chlori	< 10,000	Chlor	mg/kg	185	106	74	5850	1600	926	532	42.4	794	68.9	< 25.0	< 25.0	< 25.0	Bold and ital
Impacted by a Release	(51 ft - 100 ft):	Sample Depth Interval	ft. bgs	1	m	5	SURFACE	1	m	5	7	SURFACE	1	1	1	1	
osure Criteria for Soils		Sample Date			8/9/2018		10/15/2018		01001010	0TN7/6/0		10/15/2018	8/9/2018	8/9/2018	8/9/2018	8/9/2018	
19.15.29.12 NMAC Clo		Sample ID	Sample ID T-1		T1B		ŕ	7-1		T2.B	z	ш	S	M	NOTES: ft. Feet		

П . . T т

Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.

Feet

Below ground surface bgs

Total Petroleum Hydrocarbons mg/kg Milligrams per kilogram ТРН

Gasoline range organics GRO

Diesel range organics DRO

Method SM4500CI-B ÷

Method 8021B 2

Method 8015M 'n

E.

2018 INITIAL SOIL ASSESSMENT- 2RP-4607 / nAB1803942588 SUMMARY OF ANALYTICAL RESULTS

TABLE 1

CONOCOPHILLIPS RONCO SWD #001 RELEASE EDDY COUNTY, NM

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TABLE 2	CONOCOPHILLIPS
SUMMARY OF ANALYTICAL RESULTS	RONCO SWD #001 RELEASE
023 ADDITIONAL SOIL ASSESSMENT- 2RP-4607 / nAB1803942588	EDDY COUNTY, NM

						ľ	-					,												
	0 1E 30 13 MM	MAC Closura Critaria	for Coile Impacted hu	a Balanca (E1 ft - 1	.00 41.	Chlorides ¹						BTEX ²									TPH3			
	N 77 . C7 . CT . CT					< 10,000 mg/.	kg	< 10 mg/kg							< 50 mg/	'kg							< 2,500 mg/kg	< 1,000 mg/kg
			Sample Depth	Field Screening Re	esults	Chloride		Benzene		Toluene	Ε	hylbenzene	Total Xy	vlenes	Total BTI	X	GRO		DRO		EXT DRO		Total TPH	GRO+DRO
Samp	ole ID	Sample Date		Chlorides P	QIo				_					_			C ₆ - C ₁	-	> C ₁₀ - C ₂₈	_	> C ₂₈ - C ₃	9		
			ft. bgs	udd		mg/kg	Q	ng/kg	۲ ۲	g/kg	Q	/kg Q	mg/kg	۵	mg/kg	۵	mg/kg	σ	mg/kg	۵	mg/kg	ø	mg/kg	mg/kg
T2B	1-23	3/23/2023	Surface		,	160	Ŷ	0.050	V	0.050	<0.	050	<0.150		<0.300		<10.0		<10.0		<10.0			
NOTES:																								
ft. Feet	±.			Bold	l and italic	ized values inc	licate excee	dance of pro	posed Rem	ediation RR/	4Ls and/or Ru	sclamation Req	uirements.											
bgs Belc	w ground surf.	face																						
mg/kg Mill.	igrams per kilc	ogram																						
TPH Tota	al Petroleum H	łydrocarbons																						
GRO Gast	oline range or£	ganics																						
DRO Dies	sel range organ.	nics																						
1 Met	thod SM4500C	8-1.																						
2 Met	thod 8021B																							
3 Met	thod 8015M																							

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APPENDIX A C-141 Forms

			NM	OR CONSE	NOITAVE				
istrict I 525 N. French Dr., Hobbs, NM 88240 istrict II	State Energy Miner	of New Mex als and Natura	ico l Resources	FEB 07 2	RICT Form C-141 D18 Revised April 3, 2017				
istrict III 000 Rio Brazos Road, Aztec, NM 87410 <u>istrict IV</u> 220 S. St. Francis Dr., Santa Fe, NM 87505	Oil Con 1220 Sc Santa	uservation Div buth St. Franc a Fe, NM 875	vision is Dr. 05	Submit 1 Copy RECEIVE	to appropriate District Office in pordance with 19.15.29 NMAC.				
Releas	e Notificat	ion and Co	rrective A	ction	· · · · · · · · · · · · · · · · · · ·				
NAB 1803442588		OPERAT	FOR	🛛 Initi	al Report 🔲 Final Repor				
Name of Company: COG Operating, LLC (O	GRID# 229137) Contact: Ro	bert McNeill						
Address: 600 West Illinois Avenue, Midland	<u>FX 79701</u>	Telephone N	No.: 432-683-74	43					
achity Name: Ronco SwD #001		Pacifity Typ	e: SWD	~					
Surface Owner: BLM	Mineral Own	er: Federal		API No	.: 30-015-44420				
	LOCAT	ION OF REI	LEASE						
Unit Letter Section Township Range Fe C 19 17S 30E	et from the N 600	orth/South Line North	Feet from the 1650	East/West Line West	County Eddy				
Latitud	le: 32.8256347'	7 Longitude: -10	4.01429692 NA	AD83					
	NATU	RE OF REL	EASE						
Type of Release: Oil		Volume of 10 bbls	Release:	Volume I 7 bbls	Volume Recovered: 7 bbls				
Source of Release: Wellhead		Date and H 2/6/2018	lour of Occurrenc	ce: Date and 2/6/2018	Date and Hour of Discovery: 2/6/2018 11:30 AM				
Was Immediate Notice Given?	o 🛛 Not Requi	ired If YES, To	Whom?						
By Whom?		Date and H	lour:						
Was a Watercourse Reached?		If YES, Vo	If YES, Volume Impacting the Watercourse.						

Describe Cause of Problem and Remedial Action Taken.*

The hose from the kill truck to the wellhead failed resulting in the release of oil onto location.

Describe Area Affected and Cleanup Action Taken.*

The release remained on location. A vacuum truck was utilized to recover all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

		<u>OII</u>		<u>ONSER</u>	VATION I	DIVISION
Deator Ray		Approved by Enviror	Sig	tal Special	alite &	Marcule St
Signature:						
Printed Name: Dakota Neel						
Title: HSE Coordinator		Approval Date: 2	8	18	Expiration D	ate: NIA
E-mail Address: dneel2@concho.com		Conditions of Approv	vak		1	Attached
Date: 2/7/2018 Phone: 5	75-746-2010		5f	eatto	iched	2RP-4407

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/07/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 3RP-4007 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in <u>ARTESIA</u> on or before 3/07/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at *or* below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From:	Dakota Neel <dneel2@concho.com></dneel2@concho.com>
Sent:	Wednesday, February 7, 2018 10:07 AM
То:	Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD; stucker@blm.gov
Cc:	James_Amos@blm.gov; Robert McNeill; Sheldon Hitchcock; Rebecca Haskell;
	Christopher Gray
Subject:	(C-141 Initial) Ronco SWD #001 (30-015-44420) 2-6-2018
Attachments:	(C-141 Initial) Ronco SWD #001 (30-015-44420) 2-6-2018.pdf

Ms. Weaver/Ms. Tucker,

Please find the attached initial C-141 for your consideration. If you have any questions or concerns please contact me.

Thank you,

Dakota Neel HSE Coordinator COG Operating LLC Cell: <u>432-215-2783</u> dneel2@concho.com

2407 Pecos Ave. Artesia , NM 88210



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District RP 2RP-4607 Facility ID Application ID

Incident ID

Site Assessment/Characterization

Oil Conservation Division

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?	<u>>55</u> (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 not on an exploration, development, production, or storage site?	🗌 Yes 🗸 No

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.
 Field data
- **D**ata table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Page 3

ceived by OCD: 8/3/2023	1:20:52 PM tate of New Mexico			Page 20 of
Jiii C-1+1			Incident ID	nAB1803942588
ge 4	Oil Conservation Divisio	n	District RP	2RP-4607
			Facility ID	
			Application ID	
regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Ike Tavarez Signature:	equired to report and/or file certain release r ent. The acceptance of a C-141 report by th te and remediate contamination that pose a t a C-141 report does not relieve the operator	notifications and perform c ne OCD does not relieve th threat to groundwater, surf of responsibility for comp Title: Program Man Date: <u>8/3/2023</u> Telephone: <u>432-685</u>	orrective actions for rel e operator of liability sl ace water, human healt bliance with any other for ager, Remediation	eases which may endanger nould their operations have n or the environment. In ederal, state, or local laws
OCD Only		0/2/2	022	

Page 6

Oil Conservation Division

Incident ID	nAB1803942588
District RP	
Facility ID	
Application ID	

Page 21 of 78

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.

<u>Closure Report Attachment Checklist</u>: Each of the following i	items must be included in the closure report.					
\checkmark A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC					
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office					
Laboratory analyses of final sampling (Note: appropriate ODO	C District office must be notified 2 days prior to final sampling)					
Description of remediation activities						
I hereby certify that the information given above is true and complet and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the Co Printed Name: Ike Tavarez Signature:	ete to the best of my knowledge and understand that pursuant to OCD rules n release notifications and perform corrective actions for releases which Ca C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. 					
email: Ike.Tavarez@conocophillips.com Telephone: 432-685-2573						
OCD Only						
Received by: Shelly Wells	Date: <u>8/3/2023</u>					
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.					
Closure Approved by: Hall	Date: 8/28/2023					
Printed Name: Brittany Hall	Title: Environmental Specialist					

APPENDIX B Site Characterization Data

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	, (0 (0	quarte quarte	ers a ers a	are 1: are sr	=NW : malles	2=NE 3 st to lar	3=SW 4: gest)	=SE) (NAD:	83 UTM in me	eters)	(1	n feet)	
POD Number	POD Sub- Code basin C	county	Q Q 64 10	Q 64	Sec	Tws	Rng		x	Y	Distance	Depth Well	Depth Water	Water Column
RA 11914 POD1	RA	ED	2 4	2	20	17S	30E	5948	301 3	3632002 🌍 Averag	2567 ge Depth to Minimum Maximum	85 Water: Depth: Depth:	80 80 80 80	5 feet feet feet
Record Count: 1														

Record Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 592262.86

Northing (Y): 3632387.31

Radius: 2700

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

Received by OCD: 8/3/2023 1:20:52 PM

TE TETRA TECH

LOG OF BORING DTW-1

	Page	
1	of	1

Project Name: Ronco SVVD #0	101	
Borehole LocationGPS Coordinates:	32.825843°, -104.013840°	Surface Elevation: 3628 ft
Borehole Number: DTW-1		meter (in.): 8 Date Started: 6/19/2023 Date Finished: 6/19/2023
DEPTH (ft) OPERATION TYPE SAMPLE SAMPLE CHLORIDE FIELD SCREENING (ppm) CC FIELD SAMPLE RECOVERY (%)	MOISTURE CONTENT (%) DRY DENSITY (pcf) T LIQUID LIMIT D PLASTICITY INDEX MINUS NO. 200 (%)	WATER LEVEL OBSERVATIONS While Drilling Image: DRY ft Upon Completion of Drilling Image: DRY ft MATERIAL DESCRIPTION Image: DRY ft Image: DRY ft
10 1 10 <td></td> <td>SM- SAND: Pale brown, dense, dry, fine- to medium-grained, pad material 2 SM- SAND: Reddish brown, very loose, dry, fine-grained 6 SM- SAND: Light reddish brown, very loose to loose, dry, fine-grained, trace caliche nodules 10 -CL- SANDY CLAY: Reddish brown, stiff to very stiff, dry, trace caliche nodules 10 -CL- SANDY CLAY: Brown, very stiff, dry 18 -SP-SM- SAND: Reddish brown, loose to medium dense, dry, fine- to coarse-grained, trace gravel 30 -CL- SANDY CLAY: Brown, very stiff to hard, dry, trace gravel 30 -CL- SANDY CLAY: Brown, very stiff to hard, dry, trace gravel 30</td>		SM- SAND: Pale brown, dense, dry, fine- to medium-grained, pad material 2 SM- SAND: Reddish brown, very loose, dry, fine-grained 6 SM- SAND: Light reddish brown, very loose to loose, dry, fine-grained, trace caliche nodules 10 -CL- SANDY CLAY: Reddish brown, stiff to very stiff, dry, trace caliche nodules 10 -CL- SANDY CLAY: Brown, very stiff, dry 18 -SP-SM- SAND: Reddish brown, loose to medium dense, dry, fine- to coarse-grained, trace gravel 30 -CL- SANDY CLAY: Brown, very stiff to hard, dry, trace gravel 30 -CL- SANDY CLAY: Brown, very stiff to hard, dry, trace gravel 30
Sampler Types: Split Shelby Bulk Sample M Grab Sample Test Pi Logger: Joe Tyler		Image: Hand Auger Bottom of borehole at 55.0 feet. Image: Air Rotary Surface elevation is an approximate value obtained from Google Earth data. Image: Direct Push Core Barrel Core Barrel Driller: Scarborough Drilling

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Released to Imaging: 8/28/2023 11:19:14 AM



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APPENDIX C Laboratory Analytical Data

Analytical Report 595502

for TRC Solutions, Inc

Project Manager: Joel Lowry

Ronco SWD #001

17-AUG-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), 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 (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16) 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) Xenco-Lakeland: Florida (E84098)



17-AUG-18

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

Reference: XENCO Report No(s): **595502 Ronco SWD #001** 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) 595502. 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. 595502 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns Roah

Kelsey Brooks Project Manager

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Sample Id N @ 1' E @ 1' S @ 1' W @ 1' T-1 @ 1' T-1 @ 3' T-1 @ 5' T-2 @ 1' T-2 @ 5' T-2 @ 7'

Sample Cross Reference 595502

TRC Solutions, Inc, Midland, TX

Ronco SWD #001

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	08-09-18 11:00	1 ft	595502-001
S	08-09-18 11:15	1 ft	595502-002
S	08-09-18 11:30	1 ft	595502-003
S	08-09-18 11:45	1 ft	595502-004
S	08-09-18 12:00	1 ft	595502-005
S	08-09-18 12:15	3 ft	595502-006
S	08-09-18 12:30	5 ft	595502-007
S	08-09-18 12:45	1 ft	595502-008
S	08-09-18 13:00	3 ft	595502-009
S	08-09-18 13:15	5 ft	595502-010
S	08-09-18 13:20	7 ft	595502-011



Page 32 of 78

Client Name: TRC Solutions, Inc Project Name: Ronco SWD #001

Project ID: Work Order Number(s): 595502 Report Date: 17-AUG-18 Date Received: 08/10/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3060039 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3060044 TPH GRO by EPA 8015 Mod.

Surrogate a,a,a-Trifluorotoluene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 595087-001 SD.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 595087-001 S,595087-001 SD.

Surrogate a,a,a-Trifluorotoluene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7660339-1-BLK.

CLABORATO	Joel Lov
Dject Ic	tact:

Eddy Co. NM

Project Location:

Released to Imaging: 8/28/2023 11:19:14 AM

Certificate of Analysis Summary 595502 TRC Solutions, Inc, Midland, TX Project Name: Ronco SWD #001

Date Received in Lab: Fri Aug-10-18 05:20 pm Report Date: 17-AUG-18

Project Manager: Kelsey Brooks

	Lab Id:	595502-001	595502-002	595502-003	595502-004	595502-005	595502-006
Analucia Domocool	Field Id:	N @ 1'	E @ 1'	S @ 1'	W @ 1'	T-1 @ 1'	T-1 @ 3'
naisanhay sistimuy	Depth:	1- ft	3- ft				
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-09-18 11:00	Aug-09-18 11:15	Aug-09-18 11:30	Aug-09-18 11:45	Aug-09-18 12:00	Aug-09-18 12:15
Chloride by EPA 300	Extracted:	Aug-16-18 08:10					
	Analyzed:	Aug-16-18 09:42	Aug-16-18 09:54	Aug-16-18 10:32	Aug-16-18 10:44	Aug-16-18 10:56	Aug-16-18 11:09
	Units/RL:	mg/kg RL					
Chloride	-	68.9 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	185 25.0	106 25.0
TPH GRO by EPA 8015 Mod.	Extracted:	Aug-14-18 10:00					
	Analyzed:	Aug-14-18 22:53	Aug-14-18 23:20	Aug-14-18 23:47	Aug-15-18 02:01	Aug-15-18 02:28	Aug-15-18 02:55
	Units/RL:	mg/kg RL					
TPH-GR0		<3.69 3.69	<3.97 3.97	<3.87 3.87	<3.80 3.80	<3.76 3.76	<3.88 3.88



This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and reactive sepressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes to 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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Project Location:

Joel Lowry Eddy Co. NM

Contact:

Certificate of Analysis Summary 595502 TRC Solutions, Inc, Midland, TX Project Name: Ronco SWD #001

Date Received in Lab: Fri Aug-10-18 05:20 pm Report Date: 17-AUG-18

Project Manager: Kelsey Brooks

	Lab Id:	595502-001	595502-002	595502-003	595502-004	595502-005	595502-006
Analysis Domastad	Field Id:	N @ 1'	E @ 1'	S @ 1'	W @ 1'	T-1 @ 1'	T-1 @ 3'
Anuiysis Mequesten	Depth:	1- ft	3- ft				
	Matrix:	SOIL	Soil	Soil	Soil	SOIL	Soil
	Sampled:	Aug-09-18 11:00	Aug-09-18 11:15	Aug-09-18 11:30	Aug-09-18 11:45	Aug-09-18 12:00	Aug-09-18 12:15
BTEX by EPA 8021B	Extracted:					Aug-14-18 10:00	
	Analyzed:					Aug-15-18 02:28	
	Units/RL:					mg/kg RL	
Benzene						<0.0188 0.0188	
Toluene						<0.0188 0.0188	
Ethylbenzene						<0.0188 0.0188	
m,p-Xylenes						<0.0376 0.0376	
o-Xylene						<0.0188 0.0188	
Total Xylenes						<0.0188 0.0188	
Total BTEX						<0.0188 0.0188	

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Kelsey Brooks La Maa



Certificate of Analysis Summary 595502 TRC Solutions, Inc, Midland, TX Project Name: Ronco SWD #001

Date Received in Lab: Fri Aug-10-18 05:20 pm Report Date: 17-AUG-18

Project Location: Analysis Requested DRO-ORO By SW8015B Eddy Co. NM Units/RL: Extracted: Analyzed. Sampled: Field Id: Matrix: Depth: Lab Id: Aug-15-18 01:02 Aug-14-18 12:15 Aug-09-18 11:00 mg/kg 595502-001 N @ 1' 1- ft SOIL RL Aug-15-18 02:41 Aug-14-18 12:15 Aug-09-18 11:15 mg/kg 595502-002 E @ 1' 1- ft Soil RL Aug-14-18 12:15 Aug-15-18 03:13 Aug-09-18 11:30 mg/kg 595502-003 S @ 1' 1- ft Soil RL Aug-14-18 12:15 Aug-15-18 03:46 Aug-09-18 11:45 mg/kg 595502-004 W @ 1' 1- ft Soil RL Project Manager: Kelsey Brooks Aug-15-18 04:18 Aug-14-18 12:15 Aug-09-18 12:00 mg/kg 595502-005 T-1 @ 1' 1- ft Soil RL Aug-14-18 12:15 Aug-15-18 04:53 Aug-09-18 12:15 mg/kg 595502-006 T-1 @ 3' 3- ft Soil RL

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Final 1.000



<25.0

25.025.0

< 24.9

Oil Range Hydrocarbons (ORO) Diesel Range Organics (DRO)

<25.0 < 25.0

25.025.0

<25.0<25.0

<25.2 <25.2

<25.1

<25.0

<24.9

24.9 24.9

25.025.0

25.2 25.2

<25.1

Contact:



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Project Location:

Joel Lowry Eddy Co. NM

Contact:

Certificate of Analysis Summary 595502 TRC Solutions, Inc, Midland, TX Project Name: Ronco SWD #001

Date Received in Lab: Fri Aug-10-18 05:20 pm Report Date: 17-AUG-18

Project Manager: Kelsey Brooks

	<3.65 3.65	3.50	<3.50	3.74	<3.74	3.77	<3.77	3.89	<3.89		TPH-GRO
	mg/kg RL	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	Units/RL:	
	Aug-15-18 05:11	04:44	Aug-15-18 (4:17	Aug-15-18 0)3:50	Aug-15-18 (03:23	Aug-15-18	Analyzed:	
	Aug-14-18 10:00	10:00	Aug-14-18	0:00	Aug-14-18 1	10:00	Aug-14-18 1	10:00	Aug-14-18	Extracted:	TPH GRO by EPA 8015 Mod.
	42.4 25.0	50.0	532	125	926	125	1600	25.0	74.0		Chloride
	mg/kg RL	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	Units/RL:	
	Aug-16-18 12:23	12:11	Aug-16-18	1:46	Aug-16-18 1	11:34	Aug-16-18 1	11:21	Aug-16-18	Analyzed:	
_	Aug-16-18 08:10	08:10	Aug-16-18 (8:10	Aug-16-18 0)8:10	Aug-16-18 (08:10	Aug-16-18	Extracted:	Chloride by EPA 300
	Aug-09-18 13:20	13:15	Aug-09-18	3:00	Aug-09-18 1	12:45	Aug-09-18 1	12:30	Aug-09-18	Sampled:	
	SOIL		SOIL		SOIL		SOIL		SOIL	Matrix:	
	7- ft		5- ft		3- ft		1- ft		5- ft	Depth:	Anniboro Wednesten
	T-2 @ 7'	2,	T-2 @ :	-	T-2 @ 3		T-2 @ 1	S'	T-1 @	Field Id:	Andweic Rognastad
	595502-011	10	595502-0	99	595502-0(80	595502-0	007	595502-	Lab Id:	

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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kelsey Brooks LAN BO
Certificate of Analysis Summary 595502 TRC Solutions, Inc, Midland, TX Project Name: Ronco SWD #001

SWD #001 Date Received in Lab: Fri Aug-10-18 05:20 pm

Report Date: 17-AUG-18

roject Location: Eddy Co. NM						Proje	ect Manager: Kelsey	Brooks
	Lab Id:	595502-00	1	595502-008	595502-009	595502-010	595502-011	
Andreis Domostad	Field Id:	T-1 @ 5'		T-2 @ 1'	T-2 @ 3'	T-2 @ 5'	T-2 @ 7'	
naisanhay sistimuv	Depth:	5- ft		1- ft	3- ft	5- ft	7- ft	
	Matrix:	SOIL		SOIL	Soil	Soil	SOIL	
	Sampled:	Aug-09-18 1	2:30	Aug-09-18 12:45	Aug-09-18 13:00	Aug-09-18 13:15	Aug-09-18 13:20	
BTEX by EPA 8021B	Extracted:	Aug-14-18 1	0:00	Aug-14-18 10:00	_		Aug-14-18 10:00	
	Analyzed:	Aug-15-180	3:23	Aug-15-18 03:50			Aug-15-18 05:11	
	Units/RL:	mg/kg	RL	mg/kg R	L		mg/kg RL	
Benzene		<0.0195	0.0195	<0.0189 0.01	89		<0.0182 0.0182	
Toluene		<0.0195	0.0195	<0.0189 0.01	89		<0.0182 0.0182	
Ethylbenzene		<0.0195	0.0195	<0.0189 0.01	89		<0.0182 0.0182	
n,p-Xylenes		<0.0389	0.0389	<0.0377 0.03	17		<0.0365 0.0365	
J-Xylene		<0.0195	0.0195	<0.0189 0.01	89		<0.0182 0.0182	
Total Xylenes		<0.0195	0.0195	<0.0189 0.01	89		<0.0182 0.0182	
Total BTEX		<0.0195	0.0195	<0.0189 0.01	89		<0.0182 0.0182	
	-		-		-			

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XENCO		Joel Lowry
X	roject Id:	Contact:

Released to Imaging: 8/28/2023 11:19:14 AM

Certificate of Analysis Summary 595502 TRC Solutions, Inc, Midland, TX

Project Name: Ronco SWD #001

Date Received in Lab: Fri Aug-10-18 05:20 pm Report Date: 17-AUG-18

Project Location: Eddy Co. NM									Projec	t Manager: K	elsey Br	ooks
	Lab Id:	595502-00	2	595502-00	~	595502-00	6	595502-010		595502-011		
Analucie Damastad	Field Id:	T-1 @ 5'		T-2 @ 1'		T-2 @ 3'		T-2 @ 5'		T-2 @ 7'		
naisanhau sistimuv	Depth:	5- ft		1- ft		3- ft		5- ft		7- fi		
	Matrix:	Soil		Soil		Soil		Soil		SOIL		
	Sampled:	Aug-09-18 12	2:30	Aug-09-18 12	2:45	Aug-09-18 1.	3:00	Aug-09-18 13	:15	Aug-09-18 13:	20	
DRO-ORO By SW8015B	Extracted:	Aug-14-18 12	2:15	Aug-14-18 12	2:15	Aug-14-18 12	2:15	Aug-14-18 12	:15	Aug-14-18 12:	15	
	Analyzed:	Aug-15-18 05	5:26	Aug-15-18 05	5:59	Aug-15-18 00	5:33	Aug-15-18 07	:06	Aug-15-18 07:	40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Diesel Range Organics (DRO)	-	<24.9	24.9	<24.8	24.8	<25.1	25.1	<24.9	24.9	<25.0	25.0	
Oil Range Hydrocarbons (ORO)		<24.9	24.9	<24.8	24.8	<25.1	25.1	<24.9	24.9	<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 judgement of XENCO Laboratories. XENCO Laboratories assumes to responsibility and makes to 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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Final 1.000



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 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



Project Name: Ronco SWD #001

Work Or Lab Batch	•ders: 5955(#: 3060044)2, Sample: 595502-001 / SMP	Batc	Project ID: h: 1 Matrix:	: Soil		
Units:	mg/kg	Date Analyzed: 08/14/18 22:53	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GR	O by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflue	orobenzene	-	0.114	0.100	114	76-123	
a,a,a-Trifluc	orotoluene		1.50	1.85	81	69-120	
Lab Batch	#: 3060044	Sample: 595502-002 / SMP	Batcl	h: 1 Matrix:	Soil	1	
Units:	mg/kg	Date Analyzed: 08/14/18 23:20	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GR	O by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflue	orobenzene		0.111	0.100	111	76-123	
a.a.a-Trifluc	orotoluene		1.57	1.98	79	69-120	
Lab Batch	#: 3060044	Sample: 595502-003 / SMP	Batcl	h: 1 Matrix:	: Soil	0, 120	
Units:	mg/kg	Date Analyzed: 08/14/18 23:47	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GR	O by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes				[D]		
4-Bromoflue	orobenzene		0.110	0.100	110	76-123	
a,a,a-Trifluc	orotoluene		1.65	1.93	85	69-120	
Lab Batch	#: 3060028	Sample: 595502-001 / SMP	Batcl	h: 1 Matrix	Soil	·	
Units:	mg/kg	Date Analyzed: 08/15/18 01:02	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-0	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			11.7	9.99	117	65-144	
n-Triacontai	ne		13.1	9.99	131	46-152	
Lab Batch	#: 3060044	Sample: 595502-004 / SMP	Batcl	h: 1 Matrix	Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 02:01	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GR	O by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		•					
4-Bromoflue	orobenzene		0.113	0.100	113	76-123	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Ronco SWD #001

Work Or	ders : 59550	2, Sample: 595502 005 / SMP	Data	Project ID:	soil		
Lab Daten	#: 5000059	Data Analyzad: 08/15/18 02:28	Dater				
	mg/kg	Date Analyzed: 08/15/18 02:28	SU	RROGATE R	ECOVERYS	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene		0.110	0.100	110	68-120	
a,a,a-Trifluc	orotoluene		1.71	1.88	91	71-121	
Lab Batch	#: 3060044	Sample: 595502-005 / SMP	Batch	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 02:28	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GRO	D by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4 Duomo flu		Anarytes	0.100	0.100	100	76 100	
4-Bromotiu	orobenzene		0.108	0.100	108	76-123	
Lab Batch	#• 3060028	Sample: 595502-002 / SMP	1.09 Rotel	1.88	90 • Soil	09-120	
Lab Daten	#. 5000028	Data Apply 201 08/15/18 02:41	Dater				
Units:	mg/kg	Date Analyzeu: 06/15/18 02.41	SU	RROGATE R	ECOVERY	STUDY	
	DRO-C	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
Tricosane			11.1	9.99	111	65-144	
n-Triacontai	ne		12.6	9.99	126	46-152	
Lab Batch	#: 3060044	Sample: 595502-006 / SMP	Batch	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 02:55	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GRO	D by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene		0.109	0.100	109	76-123	
a,a,a-Trifluc	orotoluene		1.61	1.94	83	69-120	
Lab Batch	#: 3060028	Sample: 595502-003 / SMP	Batch	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 03:13	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-C	ORO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			12.2	10.1	121	65-144	
n-Triacontai	ne		13.4	10.1	133	46-152	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Ronco SWD #001

Work Oi Lab Batch	ders : 59550 #: 3060039	2, Sample: 595502-007 / SMP	Batch	Project ID: n: 1 Matrix:	: Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 03:23	SU	RROGATE R	ECOVERY S	STUDY	
	ВТЕХ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromoflu	orobenzene		0.108	0.100	108	68-120	
a,a,a-Triflu	orotoluene		1.80	1.95	92	71-121	
Lab Batch	#: 3060044	Sample: 595502-007 / SMP	Batch	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 03:23	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GRO) by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene		0.102	0.100	102	76-123	
a,a,a-Triflu	orotoluene		1.74	1.95	89	69-120	
Lab Batch	#: 3060028	Sample: 595502-004 / SMP	Batch	n: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 03:46	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-O	PRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			12.7	10.1	126	65-144	
n-Triaconta	ne		13.5	10.1	134	46-152	
Lab Batch	#: 3060039	Sample: 595502-008 / SMP	Batch	n: 1 Matrix	Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 03:50	SU	RROGATE R	ECOVERY S	STUDY	
	втех	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene		0.114	0.100	114	68-120	
a,a,a-Triflu	orotoluene		1.68	1.89	89	71-121	
Lab Batch	#: 3060044	Sample: 595502-008 / SMP	Batch	n: 1 Matrix	Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 03:50	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GRO) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene		0.109	0.100	109	76-123	
a,a,a-Triflu	orotoluene		1.55	1.89	82	69-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Ronco SWD #001

Work Or Lab Batch	• ders : 59550 #: 3060044)2, Sample: 595502-009 / SMP	Batcl	Project ID: h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 04:17	SU	RROGATE R	ECOVERYS	STUDY	
	TPH GRO	D by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflue	orobenzene		0.111	0.100	111	76-123	
a,a,a-Trifluc	orotoluene		1.58	1.87	84	69-120	
Lab Batch	#: 3060028	Sample: 595502-005 / SMP	Batcl	h: 1 Matrix	Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 08/15/18 04:18	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-C	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			13.9	10.0	139	65-144	
n-Triacontar	ne		13.9	10.0	139	46-152	
Lab Batch	#: 3060044	Sample: 595502-010 / SMP	Batcl	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 04:44	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GRO	D by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromoflue	orobenzene		0.110	0.100	110	76-123	
a,a,a-Trifluc	orotoluene		1.42	1.75	81	69-120	
Lab Batch	#: 3060028	Sample: 595502-006 / SMP	Batcl	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 04:53	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-C	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			12.1	9.94	122	65-144	
n-Triacontai	ne		12.5	9.94	126	46-152	
Lab Batch	#: 3060039	Sample: 595502-011 / SMP	Batcl	h: 1 Matrix	Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 05:11	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflue	orobenzene		0.108	0.100	108	68-120	
a,a,a-Trifluc	orotoluene		1.72	1.82	95	71-121	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Ronco SWD #001

Work Ord Lab Batch #	l ers : 59550 : 3060044	2, Sample: 595502-011 / SMP	Batcl	Project ID: h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 05:11	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		0.106	0.100	106	76-123	
a,a,a-Trifluoro	otoluene		1.68	1.82	92	69-120	
Lab Batch #	3060028	Sample: 595502-007 / SMP	Batch	h: 1 Matrix:	Soil	1 1	
Units:	mg/kg	Date Analyzed: 08/15/18 05:26	SU	RROGATE R	ECOVERY	STUDY	
	DRO-C	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Triaccana		Analytes	12.1	0.00	121	(5.144	
n Triacontana			12.1	9.96	121	65-144	
Lob Potob #	3060028	Sample: 505502.008 / SMP	12.0	9.90		40-152	
LaD Daten #	: 5000028	Data Analyzada 08/15/18 05:50	Date		. 5011		
Units:	mg/kg	Date Analyzed: 08/15/18 05:59	SU	RROGATE R	ECOVERYS	STUDY	
	DRO-C	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
Tricosane			11.5	9.91	116	65-144	
n-Triacontane			12.2	9.91	123	46-152	
Lab Batch #	: 3060028	Sample: 595502-009 / SMP	Batch	h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 06:33	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-C	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			13.2	10.0	132	65-144	
n-Triacontane			14.4	10.0	144	46-152	
Lab Batch #	3060028	Sample: 595502-010 / SMP	Batch	h: 1 Matrix:	Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 08/15/18 07:06	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			12.3	9.96	123	65-144	
n-Triacontane	:		13.0	9.96	131	46-152	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Ronco SWD #001

Work Or Lab Batch	ders : 59550 #: 3060028	2, Sample: 595502-011 / SMP	Batch	Project ID: n: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 08/15/18 07:40	SU	RROGATE RI	ECOVERY S	STUDY	
	DRO-C	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes					
Tricosane			10.4	9.99	104	65-144	
n-Triacontar	ne		10.5	9.99	105	46-152	
Lab Batch	#: 3060039	Sample: 7660337-1-BLK / H	BLK Batch	n: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 08/14/18 17:01	SU	RROGATE RI	ECOVERYS	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflue	orobenzene	•	0.100	0.100	100	68-120	
a,a,a-Trifluc	orotoluene		1.78	2.00	89	71-121	
Lab Batch	#: 3060044	Sample: 7660339-1-BLK / H	BLK Batch	n: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 08/14/18 17:01	SU	RROGATE RI	ECOVERY	STUDY	
	TPH GRO	D by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4.D. 0	1	Analytes		0.100	100	F (100	
4-Bromoliu	orobenzene		0.0997	0.100	100	76-123	
Lah Datah	#. 2060028	Sample: 7660261 1 DI K / I	2.63	2.00	Solid	69-120	**
Lab Batch	#: 3000028	Sample: 7000301-1-BLK7	SLK Bater	i: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 08/14/18 23:22	SU	RROGATE RI	ECOVERYS	STUDY	
	DRO-C	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			11.6	10.0	116	65-144	
n-Triacontar	ne		12.9	10.0	129	46-152	
Lab Batch	#: 3060039	Sample: 7660337-1-BKS / I	BKS Batch	n: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 08/14/18 14:15	SU	RROGATE R	ECOVERYS	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflue	orobenzene		0.0961	0.100	96	68-120	
a,a,a-Trifluc	orotoluene		1.65	2.00	83	71-121	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Ronco SWD #001

Work Or Lab Batch	ders : 59550 #: 3060044	2, Sample: 7660339-1-BKS / [*]	BKS Batch	Project ID: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 08/14/18 15:13	SU	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-Bromoflue	orobenzene	-	0.109	0.100	109	76-123	
a,a,a-Trifluc	orotoluene		2.24	2.00	112	69-120	
Lab Batch	#: 3060028	Sample: 7660361-1-BKS /	BKS Batch	n: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 08/14/18 23:55	SU	RROGATE RI	ECOVERY S	STUDY	
	DRO-O	PRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane		<i>u</i>	14.0	10.0	140	65-144	
n-Triacontai	ne		13.9	10.0	139	46-152	
Lab Batch	#: 3060039	Sample: 7660337-1-BSD / 1	BSD Batch	n: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 08/14/18 14:46	SU	RROGATE RI	ECOVERYS	STUDY	
	втех	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes				[D]		
4-Bromoflue	orobenzene		0.0968	0.100	97	68-120	
a,a,a-Trifluc	orotoluene		1.76	2.00	88	71-121	
Lab Batch	#: 3060044	Sample: 7660339-1-BSD / 1	BSD Batch	n: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 08/14/18 15:40	SU	RROGATE RI	ECOVERY S	STUDY	
	TPH GRO) by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflue	orobenzene		0.109	0.100	109	76-123	
a,a,a-Trifluc	orotoluene		1.90	2.00	95	69-120	
Lab Batch	#: 3060028	Sample: 7660361-1-BSD / 1	BSD Batch	n: 1 Matrix:	Solid	· ·	
Units:	mg/kg	Date Analyzed: 08/15/18 00:29	SU	RROGATE RI	ECOVERY S	STUDY	
	DRO-O	PRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Tricosane			14.1	10.0	141	65-144	
n-Triacontar	ne		14.2	10.0	1.42		

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Ronco SWD #001

Work Or Lab Batch	r ders : 59550 #: 3060039	2, Sample: 595087-001 S / MS	Batch	Project ID: a: 1 Matrix:	: Soil		
Units:	mg/kg	Date Analyzed: 08/14/18 17:55	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
4-Bromoflu	orobenzene		0.103	0.100	103	68-120	
a,a,a-Trifluo	orotoluene		1.75	1.91	92	71-121	
Lab Batch	#: 3060044	Sample: 595087-001 S / MS	Batch	a: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 08/14/18 18:49	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GRO	D by EPA 8015 Mod.	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene	Analytes	0.127	0.100	127	76-123	**
a.a.a-Trifluo	orotoluene		1.35	1.90	71	69-120	
Lab Batch	#: 3060028	Sample: 595502-001 S / MS	Batch	. 1 Matrix	: Soil	09 120	
Units:	mg/kg	Date Analyzed: 08/15/18 01:35	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-C	ORO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Triaggana		2 Mary CO	12.1	0.02	122	(5.144	
n Trisconta	20		13.1	9.92	132	00-144	
Lob Dotob	#. 2060020	Sample: 505087.001.SD / N	15.8	9.92		40-132	
	#: 3000039	Sample: 393087-001 3D7 W	ISD Date		. 5011		
Units:	mg/kg	Date Analyzed: 08/14/18 18:22	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene		0.108	0.100	108	68-120	
a,a,a-Trifluo	orotoluene		1.84	1.98	93	71-121	
Lab Batch	#: 3060044	Sample: 595087-001 SD / N	ISD Batch	a: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 08/14/18 19:16	SU	RROGATE R	ECOVERY S	STUDY	
	TPH GRO	D by EPA 8015 Mod. Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromoflu	orobenzene		0.126	0.100	126	76-123	**
a,a,a-Trifluo	orotoluene		1.24	1.83	68	69-120	**

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Ronco SWD #001

Work Orders	s : 595502,	Samelar 505502 001 SD / N		Project ID:	Sail		
Lab Batch #: 50	000028	Sample: 595502-001 SD / N	ASD Balci		5011		
Units: m	ng/kg D	Pate Analyzed: 08/15/18 02:08	SU	RROGATE RE	COVERY S	STUDY	
	DRO-ORO	By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Ana	lytes			[D]		
Tricosane			14.0	9.91	141	65-144	
n-Triacontane			13.9	9.91	140	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



BS / BSD Recoveries

Received by OCD: 8/3/2023	1:20:52 PM

Work Order #: 595502							Proj	ect ID:			
Analyst: MIT	Dî	ate Prepar	ed: 08/14/20	18			Date A	nalyzed: (8/14/2018		
Lab Batch ID: 3060039 Sample: 7660337	7-1-BKS	Batcl	n#: 1					Matrix: S	solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUI	λ	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	E	[B]	[c]	[0]	[E]	Result [F]	[6]				
Benzene	<0.0200	2.00	1.84	92	2.00	1.85	93	1	55-120	20	
Toluene	<0.0200	2.00	1.83	92	2.00	1.82	91	-	77-120	20	
Ethylbenzene	<0.0200	2.00	1.83	92	2.00	1.82	91	-	77-120	20	
m,p-Xylenes	<0.0400	4.00	3.69	92	4.00	3.65	91	-	78-120	20	
o-Xylene	<0.0200	2.00	1.85	93	2.00	1.82	91	2	78-120	20	
Analyst: RNL	Dî	ate Prepar	ed: 08/16/20	18			Date A	nalyzed: (8/16/2018		
Lab Batch ID: 3060269 Sample: 7660555	5-1-BKS	Batc	n#: 1					Matrix: S	solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUI	Ŋ	
Chloride by EPA 300	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes		[B]	[C]		[E]	Dupincate Result [F]	[]	0/	N0/	70 M D	
Chloride	<25.0	250	252	101	250	250	100	-	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

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BS / BSD Recoveries

Project Name: Ronco SWD #001



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

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Form 3 - MS / MSD Recoveries

Project Name: Ronco SWD #001

Work Order # :	595502						Project ID	ä		
Lab Batch ID:	3060039	QC- Sample ID:	595087-	001 S	Bai	tch #:	1 Matrix	c: Soil		
Date Analyzed:	08/14/2018	Date Prepared:	: 08/14/20)18	An	alyst: N	TI			
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MATI	RIX SPI	KE DUPLICA	TE RECO	OVERY S	TUDY
	BTEX by EPA 8021B	Parent Sample	Snike	Spiked Sample Result	Spiked Samole	Snike	Duplicate Sniked Sample	Spiked Dun.	RPD	Control Limits
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R
Benzene		<0.0191	1.91	1.58	83	1.98	1.63	82	3	54-120
Toluene		<0.0191	1.91	1.69	88	1.98	1.76	89	4	57-120
Ethylbenzene		<0.0191	1.91	1.79	94	1.98	1.87	94	4	58-131
m,p-Xylenes		<0.0382	3.82	3.58	94	3.97	3.73	94	4	62-124

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Matrix: Soil -Analyst: RNL Batch #: **QC- Sample ID:** 595502-002 S **Date Prepared:** 08/16/2018

	Chloride by EPA 300	Parent Sample	Spike	piked 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	
Chloride		<25.0	250	276	110	250	285	114	ŝ	80-120	20	
Lab Batch ID:	3060269	QC- Sample ID:	595502-0	11 S	Bat	ch #:	1 Matrix	:: Soil				
Date Analyzed:	08/16/2018	Date Prepared:	08/16/201	18	Aní	alyst: R	NL					
Reporting Units:	mg/kg		MA	TRIX SPIKI	E / MATF	AIX SPIF	(E DUPLICA)	TE RECC	DVERY S	TUDY		
		-	-				;				;	

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

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

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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Flag

25 25 25 25 25

62-124

9

93

1.85

1.98

91

1.74

1.91

< 0.0191

08/16/2018 3060269

mg/kg

Reporting Units: Date Analyzed: Lab Batch ID: o-Xylene

Control Limits %RPD

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Form 3 - MS / MSD Recoveries

Project Name: Ronco SWD #001

Vork Order # :	5955()2						Project II	÷				
ab Batch ID:	3060028	QC- Sample ID:	595502-	001 S	Ba	tch #:	1 Matrix	x: Soil				
ate Analyzed:	08/15/2018	Date Prepared:	08/14/20	118	An	alyst: P	GM					
ceporting Units:	mg/kg		Μ	ATRIX SPIKI	[] MAT	RIX SPII	KE DUPLICA	TE RECO	DVERY	STUDY		
DI	RO-ORO By SW8015B	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	
Diesel Range Or	ganics (DRO)	<24.8	99.2	101	102	99.1	109	110	~	63-139	20	
ab Batch ID:	3060044	QC- Sample ID:	595087-	001 S	Ba	tch #:	1 Matri	k: Soil				
ate Analyzed:	08/14/2018	Date Prepared:	08/14/20	118	An	alyst: N	IIT					
ceporting Units:	mg/kg		Μ	ATRIX SPIKI	C/MAT	RIX SPII	KE DUPLICA	TE RECO	DVERY 5	STUDY		
HdT	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	Kesult [A]	Added [B]	C	8% [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
TPH-GRO		<3.81	19.0	17.4	92	18.3	16.7	91	4	35-129	20	

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, <math>NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Officients Material	nali: Phone No: Phone No: Ilowry@trcsolutions.com 432-466-46	150	Invoice To: COG Operat	ng C/O Becky	Haskell						T							DW = Drinking Wate P = Product SW = Surface water
Image: constraint of contrast o	oject Contact: Joel Lowry											_		-				SL = Sludge OW =Ocean/Sea Wat
Print International Antifactorial An	mplers's Name Joel Lowry		Invoice:								Evi	0		_	_			WI = Wipe
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N@1* 1 80010 100 0 1 × <th< td=""><td> Fleid ID / Point of Collection </td><td>Sample Depth</td><td>Date</td><td>Time</td><td>Matrix</td><td># of # of pottles</td><td>nZ/HO6</td><td>EON</td><td>HOR</td><td>HO3</td><td>EN8 Hd.</td><td>epinold:</td><td>08 XƏT</td><td></td><td>_</td><td></td><td></td><td>ŧ.</td></th<>	 Fleid ID / Point of Collection 	Sample Depth	Date	Time	Matrix	# of # of pottles	nZ/HO6	EON	HOR	HO3	EN8 Hd.	epinold:	08 XƏT		_			ŧ.
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T-2@ 1 1.1 60/2016 1.24 1.1 60/2016 1.24 1.1 1.2 <td>T-1@5'</td> <td>24</td> <td>8/9/2018</td> <td>00.01</td> <td>s</td> <td>0</td> <td></td> <td></td> <td>1</td> <td>1</td> <td>× :</td> <td>×</td> <td></td> <td>1</td> <td>+</td> <td></td> <td></td> <td></td>	T-1@5'	24	8/9/2018	00.01	s	0			1	1	× :	×		1	+			
1-2 @ 3' 3n 69/2018 100 x	T-2@1'	t: T	8/9/2018	10.46	63	~			1	-	× :	×	×	1		-		
I-2 @ 5 5.n 84/2018 1.1s x<	T-2@3'	34	8/9/2018	Q	5	+		1		+	× :	×	×		+			
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2 Day EMERGENCY Image: Contract TAT Level 3 (CLP Forms) UST / RG -411 Zoonder@trcsolutions.com 3 Day EMERGENCY Image: Contract TAT Image: Contract TAT Image: Contract TAT Image: Contract TAT 3 Day EMERGENCY Image: Contract TAT Image: Contract TAT Image: Contract TAT Image: Contract TAT 3 Day EMERGENCY Image: Contract TAT Image: Contract TAT Image: Contract TAT Image: Contract TAT 3 Day EMERGENCY Image: Contract TAT Image: Contract TAT Image: Contract TAT Image: Contract TAT 3 Day EMERGENCY Image: Contract TAT Image: Contract TAT Image: Contract TAT Image: Contract TAT 1 Date Time: Received By: Received By: Relinquished By: Image: Contract Tate: Received By: 1 Inquished by: Date Time: Received By: Relinquished By: Received By: Received By: 1 Inquished by: Date Time: Received By: Received By: Received By: Received By: 1 Inquished by: Date Time: Received By: Received By: Received By: Received By: 1 Inquished by: Date Time: Received By: Date Time: Received By: Received By: 1 Inquished by: Date Time: Received By: Date Time: <	Next Day EMERGENCY			Lev	el III Std 0	C+ Form	8	F T	KP Leve	2				rhaskell(concho.co		5	cooper (gen coolditoris, co
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	Addition Signature affilis document and milionistimment of invariance	S 10 R	Ū.	Received B	De	Jon	2 / No	Cust	tody Seal	#		Presen	ed where	applicable	4	Onice	Soler Temp. Th	lermo. Corr. Factor

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Type: Contraction Contraction <thcontraction< th=""> <thc< td=""><td>Email: Phone No: Ilowry@ircsolutions.com 432.466.44</td><td>20</td><td>voice To: OG Operating</td><td>CIO Becky H</td><td>skell</td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>DW = Drinking Wa P = Product SW = Surface wate</td></thc<></thcontraction<>	Email: Phone No: Ilowry@ircsolutions.com 432.466.44	20	voice To: OG Operating	CIO Becky H	skell			4						_		DW = Drinking Wa P = Product SW = Surface wate
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2 Day EMERGENCY x Contract TAT Level 3 (CLP Forms) UST / RG_411 Zconder@trcsolutions.com 3 Day EMERGENCY 3 Day EMERGENCY Zconder@trcsolutions.com Indeel2@concho.com 3 Day EMERGENCY TAT Starts Day received by Lab, if received by 5:00 pm Indeel2@concho.com Indeel2@concho.com TAT Starts Day received by Lab, if received by S:00 pm EEDEX Tracking # Indeel2@concho.com Relinquished by Sampler: Date Time: Received By: Relinquished By: 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 1 </td <td>Next Day EMERGENCY</td> <td></td> <td></td> <td>Level</td> <td>I Std QC</td> <td>+ Forms</td> <td></td> <td>TRRP Le</td> <td>vel IV</td> <td></td> <td></td> <td>tha:</td> <td>skell@concho.cc</td> <td>E</td> <td></td> <td></td>	Next Day EMERGENCY			Level	I Std QC	+ Forms		TRRP Le	vel IV			tha:	skell@concho.cc	E		
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Received by OCD: 8/3/2023 1:20:52 PM

W = Water S = Soll/Sed/Solid GW =Ground Water DW = Drinking Water DW = Drinking Water P = Product S' = Sudge OW = Sudge OW = Ocean/Sea Water Wi = Wipe

Page 26 of 27

Final 1.000

Page 54 of 78

bcooper@trcsolutions.com

Received by OCD: 8/3/2023 1:20:52 PM



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: 08/10/2018 05:20:00 PM Temperature Measuring device used : IR-3 Work Order #: 595502 Comments Sample Receipt Checklist #1 *Temperature of cooler(s)? 1.4 #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)? 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: 08/13/2018

Checklist completed by: Checklist reviewed by: Kelsev Brooks

Date: 08/14/2018

Certificate of Analysis Summary 602424 TRC Solutions, Inc, Midland, TX

Project Name: Ronco SWD

Date Received in Lab: Mon Oct-15-18 04:55 pm Report Date: 17-OCT-18

Lab Id: Lab Id: 602424-001 <i>Analysis Requested</i> Field Id: 71 B @Surface <i>Depth: Depth:</i> SOIL <i>Matrix:</i> SOIL Sompled: BTEX by EPA 8021B Extracted: Oct-15-18 12:00 BTEX by EPA 8021B Extracted: Oct-16-18 14:00 Analyzed: Oct-16-18 14:00 Analyzed: Penzene Oct-16-18 00039 RI Benzene Vinits/RL: mg/kg RI Fuluene <00399 0035 Fuluene <00399 0035	602424-001 1 B @Surface SOIL ct-15-18 12:00 ct-16-18 14:00 ct-16-18 21:10	602424-002 T2 B @Surface	
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Ethylbenzene <0.039 0.035	<0.0399 0.0399	<0.0382 0.0382	
	<0.0399 0.0399	<0.0382 0.0382	
m,p-Xylenes 0.075	0.144 0.0798	<0.0765 0.0765	
o-Xylene <0.039 0.035	<0.0399 0.0399	<0.0382 0.0382	
Xylenes, Total 0.144 0.035	0.144 0.0399	<0.0382 0.0382	
Total BTEX 0.035	0.144 0.0399	<0.0382 0.0382	
Chloride by EPA 300 Extracted: Oct-16-18 08:30	ct-16-18 08:30	Oct-16-18 08:30	
Analyzed: 0ct-16-18 10:34	ct-16-18 10:34	Oct-16-18 10:47	
Units/RL: mg/kg RI	ng/kg RL	mg/kg RL	
Chloride 5850 125	5850 1250	794 125	
DRO-ORO By SW8015B Extracted: 0ct-16-18 11:00	ct-16-18 11:00	Oct-16-18 11:00	
Analyzed: 0ct-16-18 15:51	ct-16-18 15:51	Oct-16-18 16:37	
Units/RL: mg/kg RI	ng/kg RL	mg/kg RL	
Diesel Range Organics (DRO) 933 25.	933 25.1	9220 125	
Oil Range Hydrocarbons (ORO) 181 25.	181 25.1	5310 125	
TPH GRO by EPA 8015 Mod. Extracted: Oct-16-18 14:00	ct-16-18 14:00	Oct-16-18 14:00	
Analyzed: Oct-16-18 21:10	ct-16-18 21:10	Oct-16-18 21:36	
Units/RL: mg/kg RI	ng/kg RL	mg/kg RL	
TPH-GR0 <7.98 7.9	<7.98 7.98	<7.65 7.65	

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 judgement of XENCO Laboratories. XENCO Laboratories assumes to responsibility and makes to warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Final 1.000

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Analytical Report 602424

for TRC Solutions, Inc

Project Manager: Joel Lowry

Ronco SWD

#001

17-OCT-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-27), 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 (T104704221-18-13) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17) 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) Xenco-Lakeland: Florida (E84098)





17-OCT-18

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

Reference: XENCO Report No(s): 602424 **Ronco SWD** 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) 602424. 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. 602424 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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

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



Sample Cross Reference 602424

TRC Solutions, Inc, Midland, TX

Ronco SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T1 B @Surface	S	10-15-18 12:00		602424-001
T2 B @Surface	S	10-15-18 12:15		602424-002

.



CASE NARRATIVE

Client Name: TRC Solutions, Inc **Project Name: Ronco SWD**

Project ID: #001 Work Order Number(s): 602424

17-OCT-18 Report Date: Date Received: 10/15/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3066562 DRO-ORO By SW8015B Surrogate Tricosane recovered above QC limits. Matrix interferences is suspected; data confirmed by reanalysis. Samples affected are: 602420-001 SD,602424-001,602424-002. Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 602424-001,602424-002.

Batch: LBA-3066577 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3066578 TPH GRO by EPA 8015 Mod.

Surrogate a,a,a-Trifluorotoluene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7664257-1-BLK.



TRC Solutions, Inc, Midland, TX

Ronco SWD

Lab Sample R. 0024 (40)1 Para Concess(, 10, 13, 15, 12, 00) Analytical Method: Chloride by EPA 300 Prep Method: E300P Seq Number: NR Analytical Method: Chloride by EPA 300 Date Prep: 10,16,18,08,30 Basis: Wet Weight: Seq Number: 3066480 1260 Parameter Cas Number Result RL Units Analysis Pare Fag Dil Chioride 16887-00-6 5850 1250 mg/kg 10,16,18,10.34 50 Analytical Method: DRO-ORO By SW8015B Prep Sw0 foldsture: Mark Sw015P % Moisture: Analytical Method: DRO-ORO By SW8015B Date Prep: 10,16,18,11.00 Basis: Wet Weight Seq Number: 3066562 Date Prep: 10,16,18,11.00 Basis: Wet Weight Parameter Cas Number 7% Mark Number 7% Mark Number 7% Seq Number: 3066577 Surogate Surogate Surd Weight 10,16,18,14,00 12 Analytical Method: BTTK Swnge 10,16,18,14,00 9% M	Sample Id: T1 B @Surface		Matrix:	Soil	19 12 00	Ι	Date Received:10.	15.18 16.5	5
Analytical Method: Chloride by EPA 300 Prep Model: E300P Tech: RNL Date Prep: 10.16.18 08.30 % Moisture: No Analysic RNL Date Prep: 10.16.18 08.30 Wet Weight Dit Seq Number: 3066480 1250 mg/kg 10.16.18 10.34 50 Analytical Method: DRO-ORO By SW8015B Prep Result RL Units Analysics Wet Weight Seq Number: 900 20.1 Date Prep: 10.16.18 11.00 Basis: Wet Weight Seq Number: 906 25.1 mg/kg 10.16.18 15.51 1 Old Range Organics (DRO) 010C2080 93 25.1 mg/kg 10.16.18 15.51 1 Old Range Megrane/mos (ORO) PHCG2835 181 25.1 mg/kg 10.16.18 15.51 1 Old Range Megrane/mos (ORO) PHCG2835 181 25.1 mg/kg 10.16.18 15.51 1 Ser Number 638-67.5 631 54 65.44 10.16.18	Lab Sample Id. 602424-001		Date Co.	flected: 10.15	0.18 12.00				
Tech: RNL $Date Prep: 10.16.18 08.30 % Moisture: W = W = W = W = W = W = W = W = W = W =$	Analytical Method: Chloride by EP	A 300				F	Prep Method: E3	00P	
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Seq Number: 3066480 Parameter Cas Number Result RL Taits Analysis Date Flag Dil Chloride 16887-00-6 5850 1250 mg/kg 10.16.18 10.34 50 Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P % % 50 Seq Number: 206562 Date Prep: 10.16.18 11.00 Basis: Wet Weight Seq Number: 3066562 Date Prep: 10.16.18 15.51 1 1 Dised Range Organics (DRO) C10C28DRO 933 25.1 mg/kg 10.16.18 15.51 1 Oil Range Hydrocarbons (ORO) C10C28DRO 933 25.1 mg/kg 10.16.18 15.51 1 Surrogate Cas Number Receivery Units Limits Analysis Date Flag Dil Tricosna 638-68-5 436 % 46-152 10.16.18 15.51 ** Analysical Method: BTEX by EPA 8021B Erech MIT Surrogate % <t< th=""><th>Analyst: RNL</th><th></th><th>Date Pre</th><th>en: 10.16</th><th>.18 08.30</th><th>H</th><th>Basis: We</th><th>et Weight</th><th></th></t<>	Analyst: RNL		Date Pre	en: 10.16	.18 08.30	H	Basis: We	et Weight	
Parameter Cas Number Result RL Units Analysis Date Fing Dil Chloride 16687-00-6 5850 1250 mg/kg 10.16.18 10.34 50 Analytical Method: DRO-ORO By SW8015B	Seq Number: 3066480			r.				e	
Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P % Moisture: Analytical Method: DRO-ORO By SW8015B Date Prep: 10.16.18 11.00 Basis: Wet Weight Seq Number: 3066562 Date Prep: 10.16.18 11.00 Basis: Wet Weight Pisel Range Organics (DRO) C10C28DRO 933 25.1 mg/kg 10.16.18 15.51 1 Ol Range Hydrocarbons (ORO) PHC028DS 181 25.1 mg/kg 10.16.18 15.51 1 Surrogate Cas Number 638-67.5 681 % 65-144 10.16.18 15.51 ** Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B % % Moisture: Analytical Method:: BTEX by EPA 8021B Prep Method: SW5030B % % Moisture: Analytical Method:: BTEX by EPA 8021B Prep Method: SW5030B % % 10.16.18 15.51 ** Tech: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight 2 Seq Number: 3066577 Date Prep: 10.16.18 14.00 2 2 </th <th>Parameter</th> <th>Cas Number</th> <th>Result</th> <th>DI</th> <th></th> <th>Unite</th> <th>Analysis Data</th> <th>Flag</th> <th>Dil</th>	Parameter	Cas Number	Result	DI		Unite	Analysis Data	Flag	Dil
Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P Tech: PGM Moisture: Moisture: Analysi: PGM Date Prep: 10.16.18 11.00 Basis: Wet Weight Seq Number: 3066562 Parameter Cas Number Result RL Units Analysis Date Flag Dil Diesel Range Organics (DRO) C10C28DR0 933 25.1 mg/kg 10.16.18 15.51 1 OI Range Hydrocarbons (ORO) PHCG2835 181 25.1 mg/kg 10.16.18 15.51 1 Surrogate Cas Number % Gas.67.5 681 % 65-144 10.16.18 15.51 ** Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B % Moisture: Analysi: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight 2 Seq Number: 3066577 Date Prep: 10.16.18 14.00 Basis: Wet Weight 2 Ehylbenzne 104.88.3 <t< td=""><td></td><td>16887.00.6</td><td>5850</td><td>1250</td><td></td><td>ma/ka</td><td>10.16.18.10.34</td><td>Tag</td><td>50</td></t<>		16887.00.6	5850	1250		ma/ka	10.16.18.10.34	Tag	50
Analytical Method: DRO-ORO By SW8015B: Prep Method: SW8015P: Tech: PGM $%$ Moisture: $%$ Moisture: Analysi: PGM $Date$ Prep: $0.16.18$ 11.00 Basis: Wet Weight Seq Number: 3066562 Parameter Cas Number Result RL Units Analysis Date Flag Dit Dised Range Organics (DRO) C10C28DRO 933 25.1 mg/kg $0.16.18$ 15.51 1 Surrogate Cas Number $638-67-5$ 681 % 654-41 $0.16.18$ 15.51 ** Surrogate G38-68-6 436 % 651-44 $0.16.18$ 15.51 ** Analysics MIT Date Prep: $0.16.18$ 14.00 Basis: Wet Weight Secondard MIT Date Prep: $0.16.18$ 14.00 Basis: Wet Weight Seq Number: 3006577 Prep Method: SW:5030B % Parameter Cas Number Result RL Units Analysis Date Fing Dit Benzene $71.43-2$ 0.0399 0.0399 mg/k	Chloride	10007-00-0	3630	1230		iiig/kg	10.10.10		50
Tech: Analyst: PGM Date Prep: 10.16.18 11.00 Basis: Wet Weight Seq Number: 3066562 Parameter Cas Number Result RL Units Analysis Date Flag Dil Diese Range Organics (DRO) C10C28DR0 933 25.1 mg/kg 10.16.18 15.51 1 Oil Range Hydrocarbons (ORO) PHCG2835 181 25.1 mg/kg 10.16.18 15.51 1 Surrogate Cas Number $\frac{%}{Recovery}$ Units Analysis Date Flag 1 Tricosane n-Triacontane 638-68-6 436 % 46-152 10.16.18 15.51 ** Analytical Method: BTEX by EPA 8021B Prep Notisture: 3 46-152 10.16.18 15.51 ** Analytical Method: BTEX by EPA 8021B Prep: 10.16.18 14.00 Basis: Wet Weight Seq Number: 3066577 Date Prep: 10.16.18 14.00 Basis: Wet Weight 2 Toluene 108-88-3 <0.0399	Analytical Method: DRO-ORO By	SW8015B				F	Prep Method: SW	/8015P	
Analyst: PGM Date Prep: 10.16.18 11.00 Basis: Wet Weight Seq Number: 3066562 Parameter Cas Number Result RL Units Analysis Date Flag Dit Disee Range Organies (DRO) C10C2XDRO 933 25.1 mg/kg 10.16.18 15.51 1 Surrogate Cas Number % Recovery Units Limits Analysis Date Flag N Tricosane 638-67-5 681 % 65-144 10.16.18 15.51 *** n-Triacontane 638-67-5 681 % 65-144 10.16.18 15.51 *** Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B *** *** Tech: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight Seq Number: 3066577 939 0.0399 mg/kg 10.16.18 21.10 U 2 Parameter Cas Number Result RL Units Analysis Date Flag Dit Benzene 104-44 -0.0399 0.0399	Tech: PGM					0	6 Moisture:		
Seq Number: 3066562 Parameter Cas Number Result RL Units Analysis Date Flag Di Diesel Range Organics (DRO) C10C28DRO 933 25.1 mg/kg 10.16.18 15.51 1 Oil Range Hydrocarbons (ORO) PHCG2835 181 25.1 mg/kg 10.16.18 15.51 1 Surrogate Cas Number $\frac{%}{Recovery}$ Units Limits Analysis Date Flag n-Triacontane 638-68-6 436 % 65-144 10.16.18 15.51 ** Analytical Method: BTEX by EPA 8021B Entricosane 638-68-6 436 % 46-152 10.16.18 15.51 ** Analytical Method: BTEX by EPA 8021B Date Prep: 10.16.18 14.00 Basis: Wet weight Seq Number: 3066577 Date Prep: 10.16.18 14.00 Basis: Wet weight Benzene 71-43-2 <0.0399	Analyst: PGM		Date Pre	p: 10.16	5.18 11.00	E	Basis: We	et Weight	
ParameterCas NumberResultRLUnitsAnalysis DateFlagDitDiesel Range Organics (DRO)C10C28DRO93325.1mg/kg10.16.18 15.511Oil Range Hydrocarbons (ORO)PHCG283518125.1mg/kg10.16.18 15.511SurrogateCas Number $\frac{%}{Recovery}$ UnitsLimitsAnalysis DateFlagTricosna638-67.5681%65-14410.16.18 15.51**n-Triacontane638-66.6436%46-15210.16.18 15.51**Analysic MITDate Prep:10.16.18 14.00Basis:Wet WeightSeq Number:30665773066577No3990.0399mg/kg10.16.18 21.10U2Parameter71-43-2<0.0399	Seq Number: 3066562								
Diesel Range Organics (DRO) C10C28DRO 933 25.1 mg/kg 10.16.18 15.51 1 Oil Range Hydrocarbons (ORO) PHCG2835 181 25.1 mg/kg 10.16.18 15.51 1 Surrogate Tricosane n-Triacontane Cas Number 638-67-5 $\frac{%}{68}$ Units Limits Analysis Date Flag Analytical Method: BTEX by EPA 8021B Frep Method: SW5030B % Moisture: Analysi: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight Seq Number: 3066577 Date Prep: 10.16.18 14.00 2 Parameter Cas Number Result RL Units Analysis Date Flag Dil Benzene 71-43-2 <0.0399	Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Oil Range Hydrocarbons (ORO) PHCG2835 18 25.1 mg/kg 1.18 $Analysis Date}{Analysis Date}$ Flag Surrogate $638-67.5$ 681 % $65-144$ $10.16.18$ 15.51 ** n-Triacontane $638-67.5$ 681 % $66-152$ $10.16.18$ 15.51 ** Analytical Method: BTEX by EPA 8021B $Free Method:$ $SW5030B$ $SW5030B$ Tech: MIT MIT $Suster Erep:$ $10.16.18$ 14.00 $9.0030B$ $8asis:$ Wt Weight Seq Number: 3066577 $71-43-2$ <0.0399 mg/kg $10.16.18$ 21.10 U 2 Parameter $10.4.14$ <0.0399 mg/kg $10.16.18$ 21.10 U 2 Ibulybenzene $100.41.4$ <0.0399 mg/kg $10.16.18$ 21.10 U 2 $rolytines$ $100.41.4$ <0.0399 mg/kg $10.16.18$ 21.10 U 2 $rolytines$ $100.41.4$ 0.0399 mg/kg $10.16.1$	Diesel Range Organics (DRO)	C10C28DRO	933	25.1		mg/kg	10.16.18 15.51		1
Surrogate Cas Number % Units Limits Analysis Date Flag Tricosane 638-67-5 631 % 651-144 10.16.18 15.51 *** n-Triacontane 638-68-6 436 % 64-152 10.16.18 15.51 *** Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B %	Oil Range Hydrocarbons (ORO)	PHCG2835	181	25.1		mg/kg	10.16.18 15.51		1
Surrogate Gas Number Recovery Construction Recovery Construction Immy struct <	Surrogate		Cas Number	%	Units	Limits	Analysis Date	Flaα	
Incomme 0.00075 001 70 0014 10.10.101151 n-Triacontane 638-68-6 436 % 46-152 10.16.18 15.51 ** Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B % % Moisture: Analyst: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight Seq Number: 3066577 Cas Number Result RL Units Analysis Date Flag Dil Benzene 71-43-2 <0.0399	Tricosane		638-67-5	Recovery 681	0/2	65-144	10 16 18 15 51	**	
Prep Method: BTEX by EPA 8021B Prep Method: SW5030B Tech: MIT $\%$ Moisture: $\%$ Moisture: Analyst: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight Seq Number: 3066577 Parameter Cas Number Result RL Units Analysis Date Flag Dil Benzene 71-43-2 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Toluene 100-41-4 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 ethylbenzene 100-41-4 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 o-Xylene 95-47-6 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Xylenes, Total 1330-20-7 0.144 0.0798 mg/kg 10.16.18 21.10 2 Surrogate 4-Bromofluorobenzene 95-47-6 <0.0399 mg/kg 10.16.18 21.10 2 2 A-HStriptiontoubuence 95-47-6 <0.0399 mg/kg 10.16.18 21.10 2 2 <	n-Triacontane		638-68-6	436	%	46-152	10.16.18 15.51	**	
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B Tech: MIT MIT % Moisture: Moisture: Analyst: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight Seq Number: 3066577 Parameter Cas Number Result RL Units Analysis Date Flag Dil Benzene 71-43-2 <0.0399									
Tech: MIT % Moisture: Analyst: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight Seq Number: 3066577 Cas Number Result RL Units Analysis Date Flag Dil Benzene 71-43-2 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Toluene 108-88-3 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Ethylbenzene 100-41-4 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 MIT 0.041-4 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Toluene 100-41-4 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 m.p-Xylenes 179601-23-1 0.144 0.0798 mg/kg 10.16.18 21.10 U 2 Xylenes, Total 1330-20-7 0.144 0.0399 mg/kg 10.16.18 21.10 2 Surrogate Cas Number % Recovery Units Analysis Date Flag Flag	Analytical Method: BTEX by EPA	8021B				ł	Prep Method: SW	/5030B	
Analyst: MIT Date Prep: 10.16.18 14.00 Basis: Wet Weight Seq Number: 3066577 Parameter Cas Number Result RL Units Analysis Date Flag Dil Benzene 71-43-2 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Toluene 108-88-3 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Ethylbenzene 100-41-4 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 m,p-Xylenes 179601-23-1 0.144 0.0798 mg/kg 10.16.18 21.10 U 2 Sylenes, Total 1330-20-7 0.144 0.0399 mg/kg 10.16.18 21.10 2 Surrogate Cas Number % Recovery Units Limits Analysis Date Flag 4-Bromofluorobenzene 460-00-4 85 % 68-120 10.16.18 21.10 2 Surrogate 460-00-4 85 % 68-120 10.16.	Tech: MIT					0	% Moisture:		
Seq Number: 3066577 Parameter Cas Number Result RL Units Analysis Date Flag Dil Benzene 71-43-2 <0.0399	Analyst: MIT		Date Pre	p: 10.16	5.18 14.00	E	Basis: We	et Weight	
Parameter Cas Number Result RL Units Analysis Date Flag Dil Benzene 71-43-2 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Toluene 108-88-3 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Ethylbenzene 100-41-4 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 m,p-Xylenes 179601-23-1 0.144 0.0798 mg/kg 10.16.18 21.10 U 2 o-Xylene 95-47-6 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Xylenes, Total 1330-20-7 0.144 0.0399 mg/kg 10.16.18 21.10 2 Total BTEX 0.144 0.0399 mg/kg 10.16.18 21.10 2 Surrogate Cas Number % Recovery mg/kg 10.16.18 21.10 2 4-Bromofluorobenzene a,a,a-Trifluorotoluene 98-08-8 77 % 68-120 10.16.18 21.10 <t< th=""><th>Seq Number: 3066577</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Seq Number: 3066577								
Benzene 71-43-2 <0.0399	Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Toluene 108-88-3 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Ethylbenzene 100-41-4 <0.0399	Benzene	71-43-2	< 0.0399	0.0399		mg/kg	10.16.18 21.10	U	2
Ethylbenzene 100-41-4 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 m,p-Xylenes 179601-23-1 0.144 0.0798 mg/kg 10.16.18 21.10 U 2 o-Xylene 95-47-6 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Xylenes, Total 1330-20-7 0.144 0.0399 mg/kg 10.16.18 21.10 U 2 Total BTEX 0.144 0.0399 mg/kg 10.16.18 21.10 2 Surrogate Cas Number % Limits Analysis Date Flag 4-Bromofluorobenzene 460-00-4 85<% 68-120 10.16.18 21.10 5 a,a,a-Trifluorotoluene 98-08-8 77<% 71-121 10.16.18 21.10	Toluene	108-88-3	< 0.0399	0.0399		mg/kg	10.16.18 21.10	U	2
m,p-Xylenes 179601-23-1 0.144 0.0798 mg/kg 10.16.18 21.10 2 o-Xylene 95-47-6 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Xylenes, Total 1330-20-7 0.144 0.0399 mg/kg 10.16.18 21.10 U 2 Total BTEX 0.144 0.0399 mg/kg 10.16.18 21.10 2 Surrogate Cas Number % Limits Analysis Date Flag 4-Bromofluorobenzene 460-00-4 85<%	Ethylbenzene	100-41-4	< 0.0399	0.0399		mg/kg	10.16.18 21.10	U	2
o-Xylene 95-47-6 <0.0399 0.0399 mg/kg 10.16.18 21.10 U 2 Xylenes, Total 1330-20-7 0.144 0.0399 mg/kg 10.16.18 21.10 2 Total BTEX 0.144 0.0399 mg/kg 10.16.18 21.10 2 Surrogate Cas Number % Limits Analysis Date Flag 4-Bromofluorobenzene 460-00-4 85 % 68-120 10.16.18 21.10 10 a,a,a-Trifluorotoluene 98-08-8 77 % 71-121 10.16.18 21.10 10	m,p-Xylenes	179601-23-1	0.144	0.0798		mg/kg	10.16.18 21.10		2
Xylenes, Total 1330-20-7 0.144 0.0399 mg/kg 10.16.18 21.10 2 Total BTEX 0.144 0.0399 mg/kg 10.16.18 21.10 2 Surrogate % Units Limits Analysis Date Flag 4-Bromofluorobenzene 460-00-4 85 % 68-120 10.16.18 21.10 10 a,a,a-Trifluorotoluene 98-08-8 77 % 71-121 10.16.18 21.10 10	o-Xylene	95-47-6	< 0.0399	0.0399		mg/kg	10.16.18 21.10	U	2
Total BTEX 0.144 0.0399 mg/kg 10.16.18 21.10 2 Surrogate % Units Limits Analysis Date Flag 4-Bromofluorobenzene 460-00-4 85 % 68-120 10.16.18 21.10 a,a,a-Trifluorotoluene 98-08-8 77 % 71-121 10.16.18 21.10	Xylenes, Total	1330-20-7	0.144	0.0399		mg/kg	10.16.18 21.10		2
SurrogateCas Number RecoveryUnitsLimitsAnalysis DateFlag4-Bromofluorobenzene460-00-485%68-12010.16.1821.10a,a,a-Trifluorotoluene98-08-877%71-12110.16.1821.10	Total BTEX		0.144	0.0399		mg/kg	10.16.18 21.10		2
4-Bromofluorobenzene 460-00-4 85 68-120 10.16.18 21.10 a,a,a-Trifluorotoluene 98-08-8 77 % 71-121 10.16.18 21.10	Surrogate		Cas Number	% Baaa	Units	Limits	Analysis Date	Flao	
a,a,a-Trifluorotoluene 98-08-8 77 % 71-121 10.16.18 21.10	4-Bromofluorobenzene		460-00-4	Recovery 85	0/0	68-120	10 16 18 21 10	8	
	a,a,a-Trifluorotoluene		98-08-8	77	%	71-121	10.16.18 21.10		

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Ronco SWD

Sample Id: Lab Sample Id:	T1 B @Surface 602424-001		Matrix: Date Collected	Soil : 10.15.18 12.00	Date Received	1:10.15.18 16.55
Analytical Meth	nod: TPH GRO by EPA 8015 Me	od.			Prep Method: % Moisture:	SW5030B
Analyst: M Seq Number: 3	MIT 3066578		Date Prep:	10.16.18 14.00	Basis:	Wet Weight
Davamatar	Cos Nu	mbor D	Docult DI	TT \$4	han dan dan tan ta	-t- El Di

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
TPH-GRO	8006-61-9	<7.98	7.98		mg/kg	10.16.18 21.10	U	2	_
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	4	60-00-4	100	%	76-123	10.16.18 21.10			
a,a,a-Trifluorotoluene	9	8-08-8	78	%	69-120	10.16.18 21.10			



TRC Solutions, Inc, Midland, TX

Ronco SWD

	Matrix:	Soil		Ι	Date Received:10	0.15.18 16.5	5
	Date Col	lected: 10.15	.18 12.15				
A 300				F	Prep Method: E	300P	
				0	6 Moisture:		
	Date Prep	p: 10.16	.18 08.30	E	Basis: W	et Weight	
Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
16887-00-6	794	125		mg/kg	10.16.18 10.47		5
GW2015D				т	Duan Mathada S	W0015D	
SW8013B				1	And American Ame American American Am American American A	w8013P	
		10.14	10.11.00	ž	⁶ Moisture:	7 . 337 * 1 .	
	Date Prep	p: 10.16	.18 11.00	ł	Basis: W	et Weight	
Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
C10C28DRO	9220	125		mg/kg	10.16.18 16.37		5
PHCG2835	5310	125		mg/kg	10.16.18 16.37		5
	Cas Number	%	Unite	Limite	Analysis Date	Flag	
	638 67 5	Recovery 6310	0/_	65 144	10 16 18 16 37	* Flag	
	638-68-6	17400	%	46-152	10.16.18 16.37	**	
8021B				F	Prep Method: S	W5030B	
				0	6 Moisture:		
	Date Pret	o: 10.16	.18 14.00	F	Basis: W	et Weight	
						C	
Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
71-43-2	< 0.0382	0.0382		mg/kg	10.16.18 21.36	U	2
108-88-3	< 0.0382	0.0382		mg/kg	10.16.18 21.36	U	2
100-41-4	< 0.0382	0.0382		mg/kg	10.16.18 21.36	U	2
179601-23-1	< 0.0765	0.0765		mg/kg	10.16.18 21.36	U	2
95-47-6	< 0.0382	0.0382		mg/kg	10.16.18 21.36	U	2
1330-20-7	< 0.0382	0.0382		mg/kg	10.16.18 21.36	U	2
	< 0.0382	0.0382		mg/kg	10.16.18 21.36	U	2
	Cas Number	%	Units	Limits	Analysis Date	Flao	
	Cas Number 460-00-4	% Recovery 85	Units	Limits 68-120	Analysis Date	Flag	
	A 300 Cas Number 16887-00-6 SW8015B Cas Number C10C28DRO PHCG2835 8021B 8021B 8021B 71-43-2 108-88-3 109-41-4 179601-23-1 95-47-6 1330-20-7	Matrix: Date Col A 300 Cas Number Result 16887-00-6 794 SW8015B Date Prep Cas Number Result C10C28DR0 9220 PHCG2835 5310 Cas Number 638-67-5 638-68-6 8021B Date Prep Cas Number Result C10-23 0.0382 108-88-3 <0.0382 109-41-4 <0.0382 179601-23-1 <0.0765 95-47-6 <0.0382 1330-20-7 <0.0382 <0.0382	Matrix: Soil Date Collected: 10.15 A 300 Date Prep: 10.16 Cas Number Result RL 16887-00-6 794 125 SW8015B Date Prep: 10.16 Cas Number Result RL C10C28DR0 9220 125 PHCG2835 5310 125 Cas Number % Recovery 638-67-5 6310 6310 638-68-6 17400 7400 8021B Date Prep: 10.16 Cas Number Result RL 71-43-2 <0.0382	Matrix: Soil Date Collected: 10.15.18 12.15 A 300 Date Prep: 10.16.18 08.30 Cas Number Result RL 16887-00-6 794 125 SW8015B Date Prep: 10.16.18 11.00 Cas Number Result RL C10C28DR0 9220 125 PHCG2835 5310 125 Cas Number % Units 638-67-5 6310 % 638-68-6 17400 % 8021B Date Prep: 10.16.18 14.00 Kas Number Result RL 71-43-2 <0.0382	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Matrix: Soil Date Collected: Date Received:10 A 300 Prep Method: E % Moisture: Prep Method: E % Moisture: Date Prep: 10.16.18 08.30 Basis: W Cas Number Result RL Units Analysis Date 16887-00-6 794 125 mg/kg 10.16.18 10.47 SW8015B Prep Method: S' % Moisture: Matrix: W Cas Number Result RL Units Analysis Date C10C28DRO 9220 125 mg/kg 10.16.18 16.37 PHCG2835 5310 125 mg/kg 10.16.18 16.37 PHCG2835 5310 125 mg/kg 10.16.18 16.37 638-67-5 6310 % 65-144 10.16.18 16.37 638-67-5 6310 % 65-144 10.16.18 16.37 8021B Prep Method: S' % Moisture: % % Date Prep: 10.16.18 14.00 Basis: W Cas Number Result RL Units Analysis Date 638-67-5 6310 % 65-144 10.16.18 21.36 0.16.18 16.37 % 10.16.18 16.37 % 0.21B Prep Method: S' % %	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$

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Ronco SWD

Sample Id:	T2 B @Surface		Matrix:	Soil	1	Date Received	:10.15.18 16.5	55
Lab Sample I	d: 602424-002		Date Collecte	ed: 10.15.18 12.15				
Analytical Me	ethod: TPH GRO by EPA	8015 Mod.]	Prep Method:	SW5030B	
Tech:	MIT				C	% Moisture:		
Analyst:	MIT		Date Prep:	10.16.18 14.00	1	Basis:	Wet Weight	
Seq Number:	3066578							
Parameter		Cas Number	Result 5	21	Unite	Analysis De	nto Flag	Dil

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<7.65	7.65		mg/kg	10.16.18 21.36	U	2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	2	460-00-4	118	%	76-123	10.16.18 21.36		
a,a,a-Trifluorotoluene	ç	98-08-8	79	%	69-120	10.16.18 21.36		



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 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



BORATORIES

QC Summary 602424

TRC Solutions, Inc

Ronco SWD

Analytical Method:	Chloride by EPA 30	0						Pro	ep Method	l: E30)0P	
Seq Number:	3066480			Matrix:	Solid				Date Prep	b : 10.	16.18	
MB Sample Id:	7664233-1-BLK		LCS San	nple Id:	7664233-1	-BKS		LCSE	O Sample I	ld: 766	4233-1-BSD	
Parameter	MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD F	RPD Limit	Units	Analysis	Flag
	Result	Amount	Result	%Rec	Result	%Rec					Date	0

Analytical Method:	Chloride by	EPA 30	0						P	rep Meth	od: E30	0P	
Seq Number:	3066480				Matrix:	Soil				Date Pr	ep: 10.1	6.18	
Parent Sample Id:	602420-001			MS Sar	nple Id:	602420-00	01 S		MS	D Sampl	e Id: 602	420-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	uit Units	Analysis Date	Flag
Chloride		18.8	250	282	105	272	101	80-120	4	20	mo/ko	10.16.18 10:09	

Analytical Method:	DRO-ORO	By SW8	015B						Р	rep Method	: SW	8015P	
Seq Number:	3066562				Matrix:	Solid				Date Prep	: 10.1	16.18	
MB Sample Id:	7664245-1-3	BLK		LCS Sar	nple Id:	7664245-	1-BKS		LCS	D Sample I	d: 766	4245-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (I	DRO)	<7.48	100	93.2	93	110	110	63-139	17	20	mg/kg	10.16.18 12:09	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSE %Rec) LCSD c Flag) L	imits	Units	Analysis Date	
Tricosane		98		8	87		110		6	5-144	%	10.16.18 12:09	
n-Triacontane		59		(61		73		4	6-152	%	10.16.18 12:09	

Method: DRO-ORO By SW8015B			Prep Method: SW8015P					
er: 3066562 Ma	atrix: Soil			Date Prep	10.16.1	18		
nple Id: 602420-001 MS Sampl	ole Id: 60242	420-001 S		MSD Sample I	d: 602420	0-001 SD		
er Parent Spike MS Result Amount Result %	MS M %Rec Res	ASD MSD secult %Rec	Limits %	6RPD RPD Limit	Units	Analysis Date	Flag	
e Organics (DRO) <7.49 100 115	115	120 120	63-139	4 20	mg/kg	10.16.18 14:22		
e MS %Rec	MS ec Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date		
137	7	146	**	65-144	%	10.16.18 14:22		
ne 64		86		46-152	%	10.16.18 14:22		
nple Id: 602420-001 MS Sampler MS Sampler MS Sampler MS Result Amount Result % (115) (DRO) <7.49 100 115 (115) (DRO) <7.49 100 115 (115) (ole Id: 60242 MS M %Rec Res 115 S MS ec Flag	420-001 S ASD MSD esult %Rec 120 120 0 MSD %Rec 146 86	Limits % 63-139 MSD Flag **	MSD Sample I 6RPD RPD Limit 4 20 Limits 65-144 46-152	d: 602420 Units mg/kg Units %	D-001 SD Analysis Date 10.16.18 14:22 Analysis Date 10.16.18 14:22 10.16.18 14:22	F	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

.



BORATORIES

QC Summary 602424

Flag

TRC Solutions, Inc

Ronco SWD

Analytical Method:	BTEX by EPA 8021	В						F	rep Methoo	l: SW	5030B
Seq Number:	3066577		Ν	Matrix:	Solid				Date Prep	b: 10.1	6.18
MB Sample Id:	7664255-1-BLK		LCS Sam	ple Id:	7664255-	1-BKS		LCS	SD Sample	ld: 766	4255-1-BSD
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.0200	2.00	1.76	88	1.90	95	55-120	8	20	mg/kg	10.16.18 13:33
Toluene	< 0.0200	2.00	1.62	81	1.71	86	77-120	5	20	mg/kg	10.16.18 13:33
Ethylbenzene	< 0.0200	2.00	1.59	80	1.64	82	77-120	3	20	mg/kg	10.16.18 13:33
m,p-Xylenes	< 0.00682	4.00	3.17	79	3.28	82	78-120	3	20	mg/kg	10.16.18 13:33
o-Xylene	< 0.0200	2.00	1.58	79	1.56	78	78-120	1	20	mg/kg	10.16.18 13:33
Surrogate	MB %Rec	MB Flag	LC %F	CS Rec	LCS Flag	LCSI %Re) LCS c Flag	D I g	Limits	Units	Analysis Date
4-Bromofluorobenzene	83		7	8		83		6	8-120	%	10.16.18 13:33
a,a,a-Trifluorotoluene	78		7	6		74		7	1-121	%	10.16.18 13:33

Analytical Method:	BTEX by EPA 8021	IB]	Prep Metho	d: SW:	5030B	
Seq Number:	3066577		Ν	Matrix:	Soil				Date Pre	p: 10.1	6.18	
Parent Sample Id:	602420-001		MS Sam	ple Id:	602420-00	01 S		M	SD Sample	Id: 602	420-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.0186	1.86	1.58	85	1.66	89	54-120	5	25	mg/kg	10.16.18 17:07	
Toluene	< 0.0186	1.86	1.55	83	1.58	85	57-120	2	25	mg/kg	10.16.18 17:07	
Ethylbenzene	< 0.0186	1.86	1.60	86	1.61	87	58-131	1	25	mg/kg	10.16.18 17:07	
m,p-Xylenes	< 0.00635	3.72	3.13	84	3.20	86	62-124	2	25	mg/kg	10.16.18 17:07	
o-Xylene	< 0.0186	1.86	1.51	81	1.56	84	62-124	3	25	mg/kg	10.16.18 17:07	
Surrogate			M %F	S Rec	MS Flag	MSD %Ree	o MSI c Flag)] g	Limits	Units	Analysis Date	
4-Bromofluorobenzene			8	6		91		(58-120	%	10.16.18 17:07	
a,a,a-Trifluorotoluene			8	4		94			71-121	%	10.16.18 17:07	

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Р	rep Method	I: SW	5030B	
Seq Number:	3066578				Matrix:	Solid				Date Prep): 10.1	6.18	
MB Sample Id:	7664257-1-I	BLK		LCS Sar	nple Id:	7664257-	1-BKS		LCS	D Sample	d: 766	4257-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		< 0.271	20.0	18.9	95	20.1	101	35-129	6	20	mg/kg	10.16.18 14:26	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re	D LCSE c Flag) L	imits	Units	Analysis Date	
4-Bromofluorobenzene		107		1	13		115		7	6-123	%	10.16.18 14:26	
a,a,a-Trifluorotoluene		137	**	1	.05		107		6	9-120	%	10.16.18 14:26	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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BORATORIES



TRC Solutions, Inc

Ronco SWD

Analytical Method:	TPH GRO	by EPA	8015 Mod.						Р	rep Method	: SW	5030B	
Seq Number:	3066578]	Matrix:	Soil				Date Prep	: 10.1	6.18	
Parent Sample Id:	602420-001			MS San	nple Id:	602420-00	01 S		MS	D Sample I	d: 602	420-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO		<3.75	18.7	13.5	72	14.4	74	35-129	6	20	mg/kg	10.16.18 18:01	
Surrogate				N %]	IS Rec	MS Flag	MSD %Rec	MSD Flag	L	imits	Units	Analysis Date	
4-Bromofluorobenzene				1	19		122		7	6-123	%	10.16.18 18:01	
a,a,a-Trifluorotoluene				7	78		76		6	9-120	%	10.16.18 18:01	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

.

Page 13 of 15

Stafford,Texas (281-240-4200)	San A	ntonio. Texas	(210-509-	3334)				-	Phoenix	Arizona	(480-35F	100001				
Dallas Texas (214-902-0300)	Midla	nd, Texas (43	2-704-525	()				- 6	Phoenix,	Arizona	(480-355	(0060-	-	ł	10101	
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o. Field ID / Point of Collection	Sample Deoth	Tan	Matrix	# of bottles	Acetate Acetate	15SO4	POSH81		TPH TX	MAON	TCLP Be	TCLP RC	FPH 801	718	Field Commands	
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		_								120						
Turnaround Time (Business days) Same Day TAT 5 Day TAT	-		avel II Std 0	ta Deliveral NC	ble Informati	Du	IV (Full Da	ita Pkg /re	aw data)		ilown	Notes:	utions.co	E	-diary Burn	
Next Day EMERGENCY			avel III Std	QC+ Form		TRRF	Level IV				ZCON	der@trcs	olutions.	COM	19/18/19/10	9
2 Day EMERGENCY X Contract TAT			svel 3 (CLP	Forms)] UST/	RG -411				bcoo	per@trcs	solutions.	COTT		
3 Day EMERGENCY			RP Check	list							T	101	0110			
TAT Starts Day received by Lab, if received by 5:00 p	E.		C								FED-1	Sdn/XB	Trackin	#	100.00	
Relinquished by Sampler:	AND TIME DOCUM	Receive	ACHTINE .	AMPLES C	HANGE POS	Reling	NCLUDING C	COURIER D	DELIVERY	Date Tin	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Be c	ceived B			
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Relinguistical by:	ate Time:	Receive	d By:			Custo	Mark		Pres	erved wh	ere applic	able +		Ontes	Cooler Tente. Thermo. Cor	Factor D.

Final 1.000

Received by OCD: 8/3/2023 1:20:52 PM

F S

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 10/15/2018 04:55:00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 602424	Temperature Measuring device used:R3
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	5.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Νο
#5 Custody Seals intact on sample bottles?	Νο
#6*Custody Seals Signed and dated?	Νο
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#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)?	Νο
#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: 10/16/2018

Checklist completed by: Ashley Derstine
Checklist reviewed by: May Moah
Kelsey Brooks

Date: 10/16/2018



March 28, 2023

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: RONCO SWD #001 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/23/23 13:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	RONCO SWD #001 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02857	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: T2B - 23 (SURFACE) (H231335-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.22	111	2.00	2.88	
Toluene*	<0.050	0.050	03/24/2023	ND	2.24	112	2.00	2.37	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.19	109	2.00	4.79	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.78	113	6.00	6.14	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
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	03/27/2023	ND	432	108	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	03/25/2023	ND	207	103	200	5.64	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	203	101	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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

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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 8/3/2023 1:20:52 PM

Delivered By: (Circl Sampler)UPS - Bu	Relinquished By:	Relinquished By:	PLEASE NOTE: Liability and Da analyses. All claims including the service: In no event shall Cardina affiliates or successors arising ou			1	#3832	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #: 212C-	Phone #:	City:	Address: Annat	Project Manager:	Company Name:	101	La
e One) Observed Tem s - Other: Corrected Ten	Date:	Time: 12	mages. Cardinal's lability and clent's exclusive rem see for negligence and any other cause whatsoever a) be lable for incidental or consequental damages, a of or related to the performance of services hereur			728-23 (surface)		Sample I.D.	C	the tule	Eddy County, NM	where SWD #001 Relea	-MD - 03857 Project Ov	Fax #:	State:	os. Ilul & totatech. con	Christian Ud	Contract Phylling	East Marland, Hobbs, NM 75) 393-2326 FAX (575) 39:	boratorie
ip. °C7, ⊗ Sample Conditio	Received By:	21 Received By:	cory to any coart access made in writing and re shall be deemed waived unless made in writing and re including without limitation, business interruptions, loss inder by Cardinal, regardless of whether such claim is 1	to a station whither hereof in contract of		G I ×	(G) # C GR W/ SC OII SL	DRAB OR (C)OM CONTAINERS ROUNDWATER ASTEWATER DIL L LUDGE	IP. MATRIX	Fa	P	St	vner:	Ac	Zip: At	20	d		88240 3-2476	S
n CHECKED BY:	Dark	On ION	ceived by Cardinal within 30 days after s of use, or loss of profits incurred by c rased upon any of the above stated re	bot shall be limited to the amount pak		× 3-23		CID/BASE: E / COOL THER :	PRESERV. SAMP	1X #:	none #:	ate: Zip:	ty:	Idress:	tn: Christian Uni	ompany: 77	0. #	BILL TO		IC
Turnaround Time: Thermometer ID #113 Correction Factor -0.6°C	REMARKS:	All Results are emaile	r completion of the applicable sient, its subsidiaries, asons or otherwise.	d by the client for the		× × 2081	IME	TPH BTEX												
Standard Z Bacteria (only) Sample Co. Rush Cool Infact Observed Vet Yes Nc No Corrected		ILUI @ tetratech.com	foe 🗖 No Add'l Phone #:			>	<	Chlorides										ANALYSIS REQUEST		Page 1
dition ſemp. °C ſemp. °C																				-

Page 4 of 4

Released to Imaging: 8/28/2023 11:19:14 AM

APPENDIX D Regulatory Correspondence

OCD Permitting

SIGN-IN HELP

Searches Operator Data

Hearing Fee Application

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[IM-SD] Incident File Support Doc (ENV) (IM-BNF) Application

Submission Information			
oubmission mornauc			
Submission ID:	205969	Districts:	Artesia
Operator:	[328947] Spur Energy Partners LLC	Counties:	Eddy
Description:	Spur Energy Partners LLC [328947] nAB1803942588 {Discovery: 02/06/2018, Closure Not Approved, Oil Release, Federal}		
Status:	REJECTED		
Status Date:	04/18/2023		
References (2):	30-015-44420, nAB1803942588		
Forms			
Attachments:	Support Doc		
Questions			
This submission type does n	ot have questions, at this time.		
Acknowledgments			
This submission type does n	ot have acknowledgments, at this time.		
Commonte			
Comments			
No comments found for this	submission.		
Conditions			
No conditions found for this	submission.		
Reasons			
Summary:	bhall (4/18/2023), The depth to groundwater has not been adequately determined. When nearby well	s are used to determine dept	h to groundwater, the wells should be no
	further than $\frac{1}{2}$ mile away from the site, and data should be no more than 25 years old, and well corresponsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.2	nstruction information should 9 NMAC in lieu of drilling to c	be provided in the submission. Th determine the depth to groundwate

bhall (4/18/2023), Site ranking criteria cannot be a mixture of the new site ranking criteria (2018) and the old site ranking criteria (1993 guidelines).

bhall (4/18/2023), TPH and chloride have not been vertically delineated at T1B and T2B.

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SIGN-IN HELP

	Searches	Operator Data	Hearing Fee Application

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	247880
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Site will need to meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment.	8/28/2023

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CONDITIONS

Action 247880