

PRE-CLOSURE SAMPLING PLAN

Federal 33 Com #1 NAPP2100441738

TRANSMITTAL LETTER

FIGURE 1 – SCALED SITE DIAGRAM WITH CHLORIDE CONCENTRATIONS

TABLE 1 – LABORATORY ANALYSIS RESULTS FOR ALL SAMPLES

SITE PHOTOGRAPHS

SAMPLING PLAN

SAMPLING FOR OILFIELD RELEASES IN NEW MEXICO

MAY 2021 AND OCTOBER 2022 LABORATORY ANALYSIS REPORTS

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996

October 3, 2025

Mr. Mike Bratcher
Robert Hamlet
NMOCD District 2
Via Email

RE Ray Westall Operating – Federal 33 Com #1 NAPP2100441738
Pre-Closure Sampling Plan
Unit C Section 33 T17S R 29E, Eddy County

Dear Mr. Bratcher and Mr. Hamlet:

On behalf of Ray Westall Operating, R.T. Hicks Consultants submits the attached sampling plan to OCD. Because Rule 29 does not require notification of routine sampling, this document will not be uploaded to the portal. However, we will notify NMOCD by email at least 4 days prior to this sampling event as we believe witnessing the sampling may be useful.

Two previous sampling events in 2021 and 2022 used the Skid-Steer Auger Sampling Protocol described in the attached Soil Sampling for Oilfield Releases document. Figure 1 shows sample locations and chloride concentrations. Table 1 presents all sampling data from both events. This sampling will employ the skid steer sampling protocol.

Upon receipt of results of this 2025 sampling program, we will meet with SLO staff to discuss options for a path forward to:

1. Implement a remedy/reclamation in a manner that is best for the environment.
2. Resolve outstanding issues with the SLO regarding this site, and
3. Comply with Rule 29 of the Oil Conservation Commission and the Oil and Gas Act

After the meeting, we will upload a document that meets the goals of the SLO and complies with the mandates of Rule 29.

Sincerely,
R.T. Hicks Consultants Ltd.



Randall T. Hicks, PG
Principal

Copy Ray Westall Operating
NM SLO
BLM

FIGURE 1

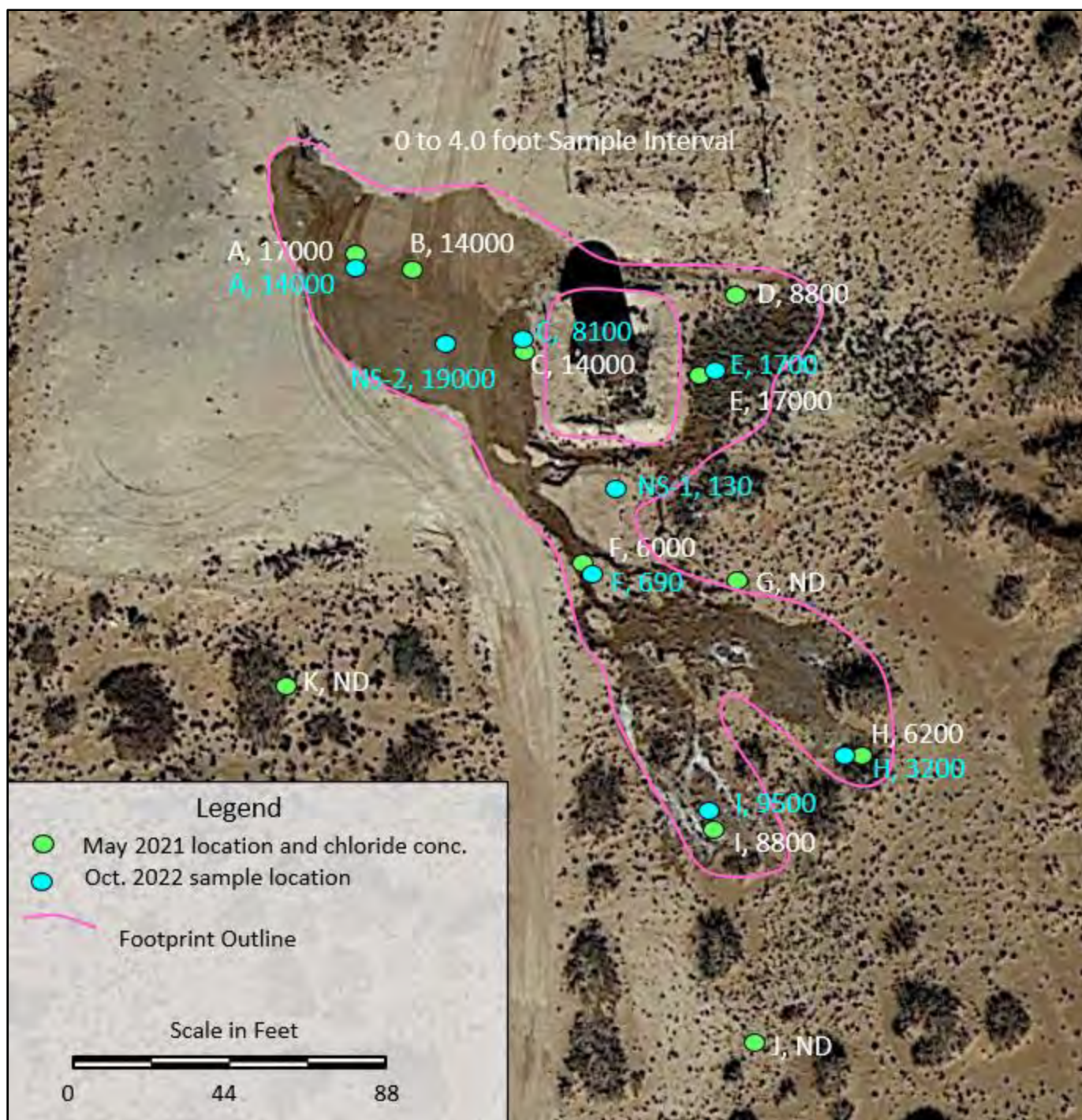


Figure 1 – Scaled Site Map showing sample locations and chloride data for the 0–4 foot interval. Samples K and J are background samples outside of the spill footprint. Sample NS-1 displays data from within the spill footprint area but outside of any evidence of produced water flow.

Samples within the spill footprint on the well pad (A, B, C, NS-2) and one in fluid pooling areas of the pasture (I) exhibit high chloride concentration. with limited natural soil flushing. Chloride concentration in three samples in the pasture (E, F, H) show a 10-fold decline of chloride concentration.

TABLE 1

Table 1 – Results of Laboratory Analyses

Sample Location	May, 2021		October, 2022		May, 2021		October 14, 2022		
	Chloride Sampling Interval [feet] 20,000 mg/kg Rule 29 Limit				Benzene Interval 10 mg/kg		TPH Sampling 0-4 feet TPH = 2500 GRO+DRO = 1000 mg/kg		
	0-4	4.25	0-4	4.25-4.5	0-4	4.25-4.5	MRO	DRO	GRO
Pad A	17,000	11,000	14,000	15,000	ND	ND	75	20	ND
Pad B	14,000	13,000			ND	ND			
Pad C	8,700	8,800	8,100	3,700	ND	ND	ND	ND	ND
Pad NS-2			19,000	11,000	ND	ND	ND	ND	ND
Pasture D	8,800	9,000			ND	ND			
Pasture E	17,000	19,000	1,700	1,300	ND	ND	66	ND	ND
Pasture F	5,000	6,200	690	1,600	ND	ND	ND	ND	ND
Pasture H	6,200	4,000	3,200	8,500	ND	ND	ND	ND	ND
Pasture I	8,800	7,200	9,500	8,300	ND	ND	ND	ND	ND
Pasture J	ND	ND			ND	ND	69	ND	ND
Pasture K	ND	ND			ND	ND			
Pasture NS-1			130	110					
Average Pad	13,233	10,933	11,050	9,350					
Average Pasture (D-I)	9,160	9,080	3,773	4,925					

The 0-4 feet depth average chloride concentration beneath the well pad is 66% of the remediation standard and average concentration in the pasture is 46% of the standard. Because the reclamation standard is 600 mg/kg, time and enhanced natural flushing will be employed to reduce the salinity of the soil/subsoil to meet standards and promote re-vegetation.

Pasture samples show that from May 2021 to October 2022, natural flushing has reduced chloride concentrations by 59% in the 0-4 horizon and by 46% at 4.25 feet. In the pasture, salt is moving downward due to unsaturated flow, generally after rainfall events.

Concentration of hydrocarbon constituents are negligible relative to the Rule 29 Table 1 limits.

SITE PHOTOGRAPHS

Appendix Site Photos



SP-1 – The footprint of the historic release is obvious if the ground is relatively dry.



SP-2 – The spill does not cover the entire pad

Appendix Site Photos



SP-3 – The historic spill footprint enters the pasture on the southeast corner of the pad.



SP-4 The spill footprint loses definition upon entering the dune sand area.

Appendix Site Photos



SP-5 East of the tank battery, some areas of the footprint are revegetated, and some are not.



SP-6 – August 18, 2016 photograph of the abandoned windmill located about 2000 feet northwest of the Fed 33 release site. The windmill is USGS-8734 and the database suggests the well draws water from the San Andres.

Hicks Consultants measure the depth to water in this pipe in 2012, prior to conversion to a water well as shown here. The water level data suggest that this well draws water from the Rustler Formation.

The OSE database provides no information on this well that is obvious in Google Earth images as a solar powered well with a holding tank in 2014 and 2016. The 2013 Google Earth image shows a small shadow at the location of the PVC pipe. The 2019 image and our recent site visit demonstrates that this casing is no longer present.

SAMPLING PLAN

SAMPLING FOR OILFIELD RELEASES IN NEW MEXICO

Soil Sampling for Oilfield Releases in New Mexico

Our sampling plans employ modifications of the soil sampling procedure outlined in 2023 EPA Document LSASDPROC-300-R5, available from the link below.

www.epa.gov/sites/default/files/2015-06/documents/Soil-Sampling.pdf&ved=2ahUKEwjkr6WjuCGAxUWGDQIHruUBroQFnoECBIQAQ&usg=AOvVaw1ZVZFuBE41haEfW-0uD4Hd .

We employ the Backhoe Sampling – Direct from Bucket Method, which are on pages 22-23 of the EPA Standard Operating Procedure (SOP). We also use a modification of the backhoe method to allow sample collection from a skid-steer auger.

The referenced EPA soil sampling procedure is not designed for collecting samples from oilfield releases. Rather, the focus of the EPA document is sampling for trace concentrations of Volatile Organic Compounds (VOC) or for Per- and Polyfluoroalkyl Substances (PFAS). The soil sampling protocol identifies two levels of trace concentrations on pages 8 of 30 and 9 of 30:

- 3.2.2 Sampling Methodology - Low Concentrations (<200 µg/kg)
- 3.2.3 Sampling Methodology - High Concentrations (>200 µg/kg)

Comparing Rule 29 Table 1 closure criteria to the high/low limit listed above illustrates the difference in data quality objectives (DQO) between the EPA procedure and sampling oilfield releases in New Mexico. Given that 200 µg/kg = 0.2 mg/kg, a measure of the DQO difference between the EPA SOP and the plan for the subject site is illustrated below.

Table 1 Constituent	Table 1 Standard (GW>100 ft) mg/kg	EPA High/Low mg/kg	Multiplation Factor of High/Low v. Table 1
Chloride	20,000	0.2	100,000
TPH (GRO+DRO+MRO)	2,500	0.2	12,500
GRO+DRO	1,000	0.2	5,000
BTEX	50	0.2	250
Benzene	10	0.2	50

Thus, the “high” concentrations in the EPA plan are 50 times lower than the benzene closure criteria of Table 1 and 100,000 times lower than the chloride closure criteria.

Direct from Bucket Sample Collection Protocol

The backhoe Sampling Method is presented below verbatim with our deletions in ~~strikeout~~ and additions in *italics*. Modifications from the EPA protocol are appropriate because the data quality objectives established in the EPA document are 50 to 100,000 times more stringent than is required by Rule 29.

8 Backhoe Sampling Method

8.1 General

Backhoes may be used in the collection of surface and shallow subsurface soil samples. The trenches created by excavation with a backhoe offer the capability of collecting samples from very specific intervals and allow visual correlation with vertically and horizontally adjacent material. If possible, the sample should be collected without entering the trench. Samples may be obtained from the trench wall, or they may be obtained directly from the bucket at the surface. The following sections describe various techniques for safely collecting representative soil samples with the aid of a backhoe.

The depth measurement for the sample begins at the top of the soil horizon.

8.2 ~~Scoop and Bracket Method (Deletion)~~

8.3 Direct-from-Bucket Method

It is also possible to collect soil samples directly from the backhoe bucket at the surface. Some precision with respect to actual depth or location may be lost with this method but if the soil to be sampled is uniquely distinguishable from the adjacent or nearby soils, it may be possible to characterize the material as to location and depth. To ensure representativeness, it is also advisable to dress the surface to be sampled by scraping off any smeared material that may cross-contaminate the sample.

Specific protocol:

1. *Excavate a small sampling trench (e.g., 4-6 feet long and bucket width) to 6-8 feet depth with the trench oriented to allow sunlight onto a long wall if possible*
2. *Obtain photo and written description of soil column*
3. *Construct benches/steps in the trench from*
 - a. *0-2 feet*
 - b. *2-4 feet*
 - c. *4-6 feet*
4. *Cause the bucket to carefully insert the top step into the bucket with the least disturbance possible.*
5. *Identify the interior of the "step" that was not touched by the bucket and collect the sample with nitrile/latex examination gloves and a clean stainless steel spoon directly into the sample jar supplied by the laboratory. Quickly seal the labeled jar and place it in cooler with ice for transport to laboratory.*

8.4 Special Considerations When Sampling with a Backhoe

- Do not physically enter backhoe excavations to collect a sample. Use either procedure 8.2, Scoop and Bracket Method, or procedure 8.3, Direct-from- Bucket Method to obtain soil for sampling.
- Smearing is an important issue when sampling with a backhoe. Measures must be taken, such as dressing the surfaces to be sampled (see Section 2.3), to mitigate problems with smearing.
- ~~Paint, grease and rust must be removed and the bucket decontaminated prior to sample collection.~~
- ~~Observe precautions for volatile organic compound and PFAS sample collection found in Section 3.~~

Skid-Steer Auger Sample Collection Protocol

General

Skid-steers equipped with an auger attachment may be used in the collection of surface and shallow subsurface soil samples in oilfields of the Permian Basin of New Mexico. Advantages of this method are speed of sampling, minimal disturbance, and less risk of injury compared to other methods. The method is well suited for collecting samples for chloride. Sampling petroleum hydrocarbons regulated by the New Mexico Oil Conservation Division require more care as described herein. The sampling objectives described below are for the analysis of 2-foot or 4-foot intervals, each collected in a 4-ounce glass jar, but the methods may be adjusted for other sampling objectives.

Direct-from-Auger Method

Advancing the auger and bit at a rate such that the auger is essentially “screwed into the ground” will yield the best samples from soft earth material (soil or sand). The adjacent image illustrates this slow rotation method, collected from 0-2 feet. This method maximizes the amount of cuttings on the auger and minimizes slough on the surface around the borehole. This slow rotation method does not generate excessive heat nor mix the sample intervals.



Slow rotation method, 0-2 ft sample

To avoid heating or mixing a sample of hard caliche or highly-cemented soil, where slow rotation with sample retrieval is not possible, auger withdrawal at 1-foot intervals minimizes heat generation and mixing.

After withdrawing the auger, use a clean, decontaminated spoon or trowel to retrieve the sample from the auger in the following manner:

1. Scrape the surface material that was in contact with the borehole to expose underlying soil/subsoil.
2. Remove 1-2 oz. of material from each linear foot beneath the scraped surface and place in laboratory-supplied sample container, labeled appropriately. Do not collect earth in contact with the steel auger.
3. Close jar lid, place in zip-lock bag and place on ice in cooler for delivery to laboratory.
4. If necessary for the sampling plan, re-enter the borehole and advance the auger appropriately. Withdraw the auger and repeat steps 1 and 2 to collect a sample representative of the next interval.

After sample collection:

1. Spin auger away from hole to remove remaining material and to prevent the material from re-entering the hole
2. Use a clean rock hammer, trowel, or other tool to remove earth adhering to the auger. The bottom 2-feet of the auger should be as clean as possible. Do not use water or materials for cleaning.
3. After final sampling trip, backfill hole with cuttings

LABORATORY REPORTS AND CHAIN OF CUSTODY



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 03, 2022

David Hamilton

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: Fed 33

OrderNo.: 2209C74

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2209C74

Date Reported: 10/3/2022

CLIENT: R.T. Hicks Consultants, LTD		Lab Order: 2209C74	
Project: Fed 33			
Lab ID: 2209C74-001		Collection Date: 9/21/2022 9:46:00 AM	
Client Sample ID: A 0-2'		Matrix: SOIL	
Analyses	Result	MDL	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS		Analyst: JMT	
Chloride	9300	300	300 mg/Kg 100 9/29/2022 11:24:42 AM 70452
Lab ID: 2209C74-002		Collection Date: 9/21/2022 9:52:00 AM	
Client Sample ID: NS-2 0-2'		Matrix: SOIL	
Analyses	Result	MDL	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS		Analyst: JMT	
Chloride	18000	1500	1500 mg/Kg 500 9/29/2022 11:37:03 AM 70452
Lab ID: 2209C74-003		Collection Date: 9/21/2022 10:15:00 AM	
Client Sample ID: E 0-2'		Matrix: SOIL	
Analyses	Result	MDL	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS		Analyst: JMT	
Chloride	810	60	60 mg/Kg 20 9/28/2022 1:48:59 PM 70452
Lab ID: 2209C74-004		Collection Date: 9/21/2022 10:26:00 AM	
Client Sample ID: NS-1 0-2'		Matrix: SOIL	
Analyses	Result	MDL	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS		Analyst: JMT	
Chloride	100	60	60 mg/Kg 20 9/28/2022 2:01:20 PM 70452
Lab ID: 2209C74-005		Collection Date: 9/21/2022 10:35:00 AM	
Client Sample ID: F 0-2'		Matrix: SOIL	
Analyses	Result	MDL	RL Qual Units DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS		Analyst: JMT	
Chloride	85	60	60 mg/Kg 20 9/28/2022 3:03:05 PM 70452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 2209C74

Date Reported: 10/3/2022

CLIENT:	R.T. Hicks Consultants, LTD	Lab Order:	2209C74
Project:	Fed 33		

Lab ID: 2209C74-006			Collection Date: 9/21/2022 10:50:00 AM					
Client Sample ID: H 0-2'			Matrix: SOIL					
Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT	
Chloride	160	59	59		mg/Kg	20	9/28/2022 3:15:26 PM	70452

Lab ID:	2209C74-007			Collection Date: 9/21/2022 11:04:00 AM				
Client Sample ID:	I 0-2'			Matrix: SOIL				
Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT	
Chloride	5400	300	300		mg/Kg	100	9/29/2022 11:49:23 AM	70452

Lab ID: 2209C74-008			Collection Date: 9/21/2022 11:18:00 AM					
Client Sample ID: C 0-2'			Matrix: SOIL					
Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT	
Chloride	8800	300	300		mg/Kg	100	9/29/2022 12:01:44 PM	70452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	D Sample Diluted Due to Matrix	E Estimated value	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	PQL Practical Quantitative Limit	RL Reporting Limit	
	S % Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C74
03-Oct-22

Client: R.T. Hicks Consultants, LTD

Project: Fed 33

Sample ID: MB-70452		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 70452			RunNo: 91368						
Prep Date: 9/28/2022	Analysis Date: 9/28/2022			SeqNo: 3272046			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70452		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 70452			RunNo: 91368						
Prep Date: 9/28/2022	Analysis Date: 9/28/2022			SeqNo: 3272047			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



**HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY**

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: R.T. Hicks Consultants,
LTD

Work Order Number: 2209C74

RcptNo: 1

Received By: Juan Rojas

9/23/2022 8:40:00 AM

[Signature]

Completed By: Cheyenne Cason

9/23/2022 9:10:19 AM

[Signature]

Reviewed By: KPC 9.23.22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: TMC 9/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 07, 2022

David Hamilton

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: Fed 33 Comm

OrderNo.: 2209C79

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: A 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 9:48:00 AM

Lab ID: 2209C79-001

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	14000	590		mg/Kg	200	9/29/2022 3:48:48 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	20	15		mg/Kg	1	9/28/2022 8:08:07 PM	70411
Motor Oil Range Organics (MRO)	75	49		mg/Kg	1	9/28/2022 8:08:07 PM	70411
Surr: DNOP	79.5	21-129		%Rec	1	9/28/2022 8:08:07 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Surr: BFB	97.6	37.7-212		%Rec	1	9/27/2022 4:13:30 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Xylenes, Total	ND	0.095		mg/Kg	1	9/27/2022 4:13:30 PM	70399
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	9/27/2022 4:13:30 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 13

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: NS-2 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 9:54:00 AM

Lab ID: 2209C79-002

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	19000	610		mg/Kg	200	9/29/2022 4:01:12 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 8:29:45 PM	70411
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/28/2022 8:29:45 PM	70411
Surr: DNOP	81.0	21-129		%Rec	1	9/28/2022 8:29:45 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Surr: BFB	96.5	37.7-212		%Rec	1	9/27/2022 5:00:33 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 5:00:33 PM	70399
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/27/2022 5:00:33 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: E 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 10:17:00 AM

Lab ID: 2209C79-003

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	1700	60		mg/Kg	20	9/28/2022 5:12:55 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 8:51:21 PM	70411
Motor Oil Range Organics (MRO)	66	46		mg/Kg	1	9/28/2022 8:51:21 PM	70411
Surr: DNOP	78.7	21-129		%Rec	1	9/28/2022 8:51:21 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Surr: BFB	90.2	37.7-212		%Rec	1	9/27/2022 5:23:59 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Toluene	ND	0.050		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2022 5:23:59 PM	70399
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	9/27/2022 5:23:59 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: NS-1 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 10:28:00 AM

Lab ID: 2209C79-004

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	130	60		mg/Kg	20	9/28/2022 5:25:20 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 9:12:56 PM	70411
Motor Oil Range Organics (MRO)	69	46		mg/Kg	1	9/28/2022 9:12:56 PM	70411
Surr: DNOP	112	21-129		%Rec	1	9/28/2022 9:12:56 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Surr: BFB	90.9	37.7-212		%Rec	1	9/27/2022 5:47:25 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Xylenes, Total	ND	0.096		mg/Kg	1	9/27/2022 5:47:25 PM	70399
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	9/27/2022 5:47:25 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: F 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 10:37:00 AM

Lab ID: 2209C79-005

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	690	60		mg/Kg	20	9/28/2022 5:37:45 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 9:34:26 PM	70411
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/28/2022 9:34:26 PM	70411
Surr: DNOP	81.4	21-129		%Rec	1	9/28/2022 9:34:26 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Surr: BFB	92.0	37.7-212		%Rec	1	9/27/2022 6:10:48 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2022 6:10:48 PM	70399
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	9/27/2022 6:10:48 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: H 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 10:52:00 AM

Lab ID: 2209C79-006

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2200	150		mg/Kg	50	9/29/2022 4:13:37 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 9:45:19 PM	70411
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/28/2022 9:45:19 PM	70411
Surr: DNOP	85.1	21-129		%Rec	1	9/28/2022 9:45:19 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Surr: BFB	93.2	37.7-212		%Rec	1	9/27/2022 6:34:09 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 6:34:09 PM	70399
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	9/27/2022 6:34:09 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: I 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 11:06:00 AM

Lab ID: 2209C79-007

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	9500	300		mg/Kg	100	9/29/2022 4:50:49 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 10:10:03 AM	70431
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 10:10:03 AM	70431
Surr: DNOP	80.0	21-129		%Rec	1	9/30/2022 10:10:03 AM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Surr: BFB	93.0	37.7-212		%Rec	1	9/27/2022 6:57:34 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 6:57:34 PM	70399
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	9/27/2022 6:57:34 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C79

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: C 0-4'

Project: Fed 33 Comm

Collection Date: 9/21/2022 11:20:00 AM

Lab ID: 2209C79-008

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	8100	300		mg/Kg	100	9/29/2022 5:03:13 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/1/2022 3:39:53 AM	70431
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/1/2022 3:39:53 AM	70431
Surr: DNOP	85.4	21-129		%Rec	1	10/1/2022 3:39:53 AM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Surr: BFB	92.6	37.7-212		%Rec	1	9/27/2022 7:21:00 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Toluene	ND	0.046		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Ethylbenzene	ND	0.046		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Xylenes, Total	ND	0.093		mg/Kg	1	9/27/2022 7:21:00 PM	70399
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	9/27/2022 7:21:00 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C79

07-Oct-22

Client: R.T. Hicks Consultants, LTD

Project: Fed 33 Comm

Sample ID: MB-70457		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 70457		RunNo: 91361						
Prep Date: 9/28/2022		Analysis Date: 9/28/2022		SeqNo: 3272148		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70457		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 70457		RunNo: 91361						
Prep Date: 9/28/2022		Analysis Date: 9/28/2022		SeqNo: 3272149		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 13

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209C79

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** Fed 33 Comm

Sample ID: LCS-70411	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 70411			RunNo: 91371						
Prep Date: 9/26/2022	Analysis Date: 9/28/2022			SeqNo: 3272003		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	82.3	64.4	127			
Surr: DNOP	4.2		5.000		84.7	21	129			

Sample ID: MB-70411	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 70411			RunNo: 91371						
Prep Date: 9/26/2022	Analysis Date: 9/28/2022			SeqNo: 3272004		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.7		10.00		76.9	21	129			

Sample ID: 2209C79-007AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: I 0-4'	Batch ID: 70431			RunNo: 91439						
Prep Date: 9/27/2022	Analysis Date: 9/30/2022			SeqNo: 3274373		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	28	14	46.38	0	61.1	36.1	154			
Surr: DNOP	3.2		4.638		68.7	21	129			

Sample ID: LCS-70431	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 70431			RunNo: 91439						
Prep Date: 9/27/2022	Analysis Date: 9/30/2022			SeqNo: 3274442		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	28	15	50.00	0	56.5	64.4	127			S
Surr: DNOP	3.0		5.000		60.8	21	129			

Sample ID: MB-70431	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 70431			RunNo: 91439						
Prep Date: 9/27/2022	Analysis Date: 9/30/2022			SeqNo: 3274445		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		73.3	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C79

07-Oct-22

Client: R.T. Hicks Consultants, LTD

Project: Fed 33 Comm

Sample ID: 2209C79-007AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: I 0-4'		Batch ID: 70431		RunNo: 91439						
Prep Date: 9/27/2022		Analysis Date: 9/30/2022		SeqNo: 3276263		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	29	15	48.40	0	59.3	36.1	154	1.24	33.9	
Surr: DNOP	3.2		4.840		66.7	21	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C79

07-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: Fed 33 Comm

Sample ID: LCS-70399	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270523		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: mb-70399	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270525		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209C79

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** Fed 33 Comm

Sample ID: lcs-70399	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 70399		RunNo: 91359							
Prep Date: 9/26/2022	Analysis Date: 9/27/2022		SeqNo: 3270576		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: mb-70399	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 70399		RunNo: 91359							
Prep Date: 9/26/2022	Analysis Date: 9/27/2022		SeqNo: 3270578		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **R.T. Hicks Consultants, LTD**

Work Order Number: **2209C79**

RcptNo: 1

Received By: **Juan Rojas**

9/23/2022 8:40:00 AM

Juan Rojas

Completed By: **Cheyenne Cason**

9/23/2022 9:40:59 AM

Cheyenne Cason

Reviewed By:

KPA 9.23.22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *TMC 9/23/22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 07, 2022

David Hamilton

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: RWO Fed 33

OrderNo.: 2209C81

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: A 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 9:50:00 AM

Lab ID: 2209C81-001

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	15000	600		mg/Kg	200	9/30/2022 9:11:24 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	15	14		mg/Kg	1	10/1/2022 4:01:15 AM	70431
Motor Oil Range Organics (MRO)	79	47		mg/Kg	1	10/1/2022 4:01:15 AM	70431
Surr: DNOP	74.3	21-129		%Rec	1	10/1/2022 4:01:15 AM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Surr: BFB	91.6	37.7-212		%Rec	1	9/27/2022 7:44:29 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Toluene	ND	0.047		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Ethylbenzene	ND	0.047		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Xylenes, Total	ND	0.094		mg/Kg	1	9/27/2022 7:44:29 PM	70399
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	9/27/2022 7:44:29 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: NS-2 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 9:56:00 AM

Lab ID: 2209C81-002

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	11000	600		mg/Kg	200	9/30/2022 9:23:45 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 12:44:38 PM	70431
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 12:44:38 PM	70431
Surr: DNOP	81.0	21-129		%Rec	1	9/30/2022 12:44:38 PM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Surr: BFB	93.5	37.7-212		%Rec	1	9/27/2022 8:08:02 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 8:08:02 PM	70399
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/27/2022 8:08:02 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: E 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 10:20:00 AM

Lab ID: 2209C81-003

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1300	60		mg/Kg	20	9/29/2022 10:13:50 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/1/2022 4:22:47 AM	70431
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/1/2022 4:22:47 AM	70431
Surr: DNOP	85.4	21-129		%Rec	1	10/1/2022 4:22:47 AM	70431
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Surr: BFB	93.3	37.7-212		%Rec	1	9/27/2022 8:31:21 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Xylenes, Total	ND	0.095		mg/Kg	1	9/27/2022 8:31:21 PM	70399
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	9/27/2022 8:31:21 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: NS-1 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 10:30:00 AM

Lab ID: 2209C81-004

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	110	60		mg/Kg	20	9/29/2022 10:26:14 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 9:10:22 AM	70419
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2022 9:10:22 AM	70419
Surr: DNOP	101	21-129		%Rec	1	9/28/2022 9:10:22 AM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Surr: BFB	93.2	37.7-212		%Rec	1	9/27/2022 10:52:01 PM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Toluene	ND	0.049		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 10:52:01 PM	70403
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	9/27/2022 10:52:01 PM	70403

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: F 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 10:39:00 AM

Lab ID: 2209C81-005

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	1600	60		mg/Kg	20	9/29/2022 10:38:39 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 9:20:59 AM	70419
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/28/2022 9:20:59 AM	70419
Surr: DNOP	78.7	21-129		%Rec	1	9/28/2022 9:20:59 AM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Surr: BFB	92.9	37.7-212		%Rec	1	9/28/2022 12:02:20 AM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Toluene	ND	0.049		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Xylenes, Total	ND	0.097		mg/Kg	1	9/28/2022 12:02:20 AM	70403
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	9/28/2022 12:02:20 AM	70403

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: H 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 10:52:00 AM

Lab ID: 2209C81-006

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8500	300		mg/Kg	100	9/30/2022 9:36:06 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 9:31:39 AM	70419
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2022 9:31:39 AM	70419
Surr: DNOP	75.8	21-129		%Rec	1	9/28/2022 9:31:39 AM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Surr: BFB	92.2	37.7-212		%Rec	1	9/28/2022 1:12:24 AM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Toluene	ND	0.047		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Ethylbenzene	ND	0.047		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Xylenes, Total	ND	0.093		mg/Kg	1	9/28/2022 1:12:24 AM	70403
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	9/28/2022 1:12:24 AM	70403

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: I 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 11:08:00 AM

Lab ID: 2209C81-007

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8300	600		mg/Kg	200	9/30/2022 9:48:27 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 1:56:18 PM	70419
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2022 1:56:18 PM	70419
Surr: DNOP	82.2	21-129		%Rec	1	9/28/2022 1:56:18 PM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Surr: BFB	91.4	37.7-212		%Rec	1	9/28/2022 1:35:48 AM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Toluene	ND	0.047		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Ethylbenzene	ND	0.047		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Xylenes, Total	ND	0.095		mg/Kg	1	9/28/2022 1:35:48 AM	70403
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	9/28/2022 1:35:48 AM	70403

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209C81

Date Reported: 10/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: C 4.25-4.5'

Project: RWO Fed 33

Collection Date: 9/21/2022 11:22:00 AM

Lab ID: 2209C81-008

Matrix: SOIL

Received Date: 9/23/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3700	150		mg/Kg	50	9/30/2022 10:00:48 AM	70481
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 2:28:14 PM	70419
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2022 2:28:14 PM	70419
Surr: DNOP	86.1	21-129		%Rec	1	9/28/2022 2:28:14 PM	70419
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Surr: BFB	92.6	37.7-212		%Rec	1	9/28/2022 1:59:13 AM	70403
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Toluene	ND	0.050		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Ethylbenzene	ND	0.050		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Xylenes, Total	ND	0.10		mg/Kg	1	9/28/2022 1:59:13 AM	70403
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/28/2022 1:59:13 AM	70403

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C81
07-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: RWO Fed 33

Sample ID: MB-70481		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 70481		RunNo: 91433						
Prep Date: 9/29/2022		Analysis Date: 9/29/2022		SeqNo: 3273912		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70481		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 70481		RunNo: 91433						
Prep Date: 9/29/2022		Analysis Date: 9/29/2022		SeqNo: 3273913		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 15

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209C81

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** RWO Fed 33

Sample ID: 2209C81-007AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: I 4.25-4.5'	Batch ID: 70419	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3271109 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	14	48.12	0	67.7	36.1	154			
Surr: DNOP	3.5		4.812		72.2	21	129			

Sample ID: 2209C81-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: I 4.25-4.5'	Batch ID: 70419	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3271110 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	32	14	47.21	0	67.9	36.1	154	1.51	33.9	
Surr: DNOP	3.4		4.721		71.0	21	129	0	0	

Sample ID: LCS-70419	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70419	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3271145 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	15	50.00	0	66.2	64.4	127			
Surr: DNOP	3.0		5.000		60.3	21	129			

Sample ID: MB-70419	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70419	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3271153 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		72.5	21	129			

Sample ID: LCS-70431	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70431	RunNo: 91439								
Prep Date: 9/27/2022	Analysis Date: 9/30/2022	SeqNo: 3274442 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	28	15	50.00	0	56.5	64.4	127			S
Surr: DNOP	3.0		5.000		60.8	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C81

07-Oct-22

Client: R.T. Hicks Consultants, LTD

Project: RWO Fed 33

Sample ID: MB-70431	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70431	RunNo: 91439								
Prep Date: 9/27/2022	Analysis Date: 9/30/2022	SeqNo: 3274445	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		73.3	21	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209C81

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** RWO Fed 33

Sample ID: 2209c81-004ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: NS-1 4.25-4.5'	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270502		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.63	0	105	70	130			
Surr: BFB	1900		985.2		197	37.7	212			

Sample ID: 2209c81-004amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: NS-1 4.25-4.5'	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270503		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.51	0	107	70	130	2.11	20	
Surr: BFB	2000		980.4		200	37.7	212	0	0	

Sample ID: LCS-70399	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270523		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: LCS-70403	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270524		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.6	72.3	137			
Surr: BFB	1900		1000		194	37.7	212			

Sample ID: mb-70399	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270525		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	37.7	212			

Sample ID: mb-70403	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 70403			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270526		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C81
07-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: RWO Fed 33

Sample ID: mb-70403	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270526	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.9	37.7	212			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209C81

07-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** RWO Fed 33

Sample ID: 2209c81-005ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: F 4.25-4.5'	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3270556 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9728	0	88.9	68.8	120			
Toluene	0.91	0.049	0.9728	0	93.7	73.6	124			
Ethylbenzene	0.93	0.049	0.9728	0	95.2	72.7	129			
Xylenes, Total	2.8	0.097	2.918	0.01808	94.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.96		0.9728		98.3	70	130			

Sample ID: 2209c81-005amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: F 4.25-4.5'	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3270557 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9737	0	96.6	68.8	120	8.41	20	
Toluene	0.97	0.049	0.9737	0	99.2	73.6	124	5.80	20	
Ethylbenzene	0.98	0.049	0.9737	0	101	72.7	129	5.78	20	
Xylenes, Total	3.0	0.097	2.921	0.01808	101	75.7	126	6.07	20	
Surr: 4-Bromofluorobenzene	1.0		0.9737		103	70	130	0	0	

Sample ID: lcs-70399	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270576 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: lcs-70403	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270577 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209C81

07-Oct-22

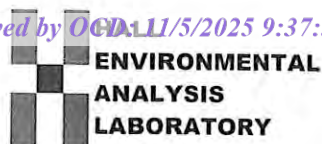
Client: R.T. Hicks Consultants, LTD**Project:** RWO Fed 33

Sample ID: mb-70399	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270578 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: mb-70403	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 70403	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270579 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: R.T. Hicks Consultants,
LTD

Work Order Number: 2209C81

RcptNo: 1

Received By: Juan Rojas

9/23/2022 8:40:00 AM

Juan Rojas

Completed By: Cheyenne Cason

9/23/2022 9:50:29 AM

Cason

Reviewed By: KPC

9-23-22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *me* 9/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: _____

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			

Chain-of-Custody Record

Client:	RT Hicks Consultants	
Mailing Address:	901 Rio Grande NW	
Site:	F-142 Albuquerque, NM 87104	
Phone #:	505 266 5004	
email or Fax#:	david@thicksconsult.com	
QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	
Accreditation	☐ NELAP ☐ Other	
EDD (Type)		

Turn-Around Time:	☒ Standard ☐ Rush
Project Name:	RWO Fed 33
Project #:	RWO Fed 33 DH
Project Manager:	D. Hamilton
Sampler:	DH
On Ice:	☒ Yes ☐ No
Sample Temperature:	57.6.1-5.6

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
9-21	9:50	soil	A 4.25 - 4.5'	4oz glass		2209081
	9:56		NS-2 4.25 - 4.5'			001
	10:20		E 4.25 - 4.5'			002
	10:30		NS-1 4.25 - 4.5'			003
	10:39		F 4.25 - 4.5'			004
	10:52		H 4.25 - 4.5'			005
	11:08		I 4.25 - 4.5'	8oz glass		006
	11:22		C 4.25 - 4.5'	4oz glass		007

Date:	Time:	Relinquished by:	Received by:	Date:	Time:
9-23	8:38	David Hamilton		9-23	8:40
Date:	Time:	Relinquished by:	Received by:	Date:	Time:

Remarks:

Analysis Request

BTEX + MTBE + TMB's (8021)	☒	BTEX + MTBE + TPH (Gas only)	☒	TPH Method 8015B (Gas/Diesel)	☒	TPH (Method 418.1)	☒	EDB (Method 504.1)	☒	8310 (PNA or PAH)	☒	RCRA 8 Metals	☒	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	☒	8081 Pesticides / 8082 PCB's	☒	8260B (VOA)	☒	8270 (Semi-VOA)	☒	TPH 8015D GBA/DRO/MRO	☒
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 03, 2022

David Hamilton

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX (505) 266-0745

RE: Federal 33

OrderNo.: 2209C76

Dear David Hamilton:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 2209C76

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C76

Project: Federal 33

Lab ID: 2209C76-001

Collection Date: 9/21/2022 10:00:00 AM

Client Sample ID: P-1 0-2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	9/28/2022 3:52:29 PM	70452
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 7:02:05 PM	70411
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2022 7:02:05 PM	70411
Surr: DNOP	88.0	21-129		%Rec	1	9/28/2022 7:02:05 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Surr: BFB	96.9	37.7-212		%Rec	1	9/27/2022 1:52:24 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Toluene	ND	0.050		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2022 1:52:24 PM	70399
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	9/27/2022 1:52:24 PM	70399

Lab ID: 2209C76-002

Collection Date: 9/21/2022 10:02:00 AM

Client Sample ID: P-1 0-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	60		mg/Kg	20	9/28/2022 4:04:50 PM	70452
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 7:13:08 PM	70411
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2022 7:13:08 PM	70411
Surr: DNOP	118	21-129		%Rec	1	9/28/2022 7:13:08 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Surr: BFB	93.4	37.7-212		%Rec	1	9/27/2022 2:15:51 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 2:15:51 PM	70399
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	9/27/2022 2:15:51 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order: 2209C76

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C76

Project: Federal 33

Lab ID: 2209C76-003

Collection Date: 9/21/2022 10:04:00 AM

Client Sample ID: P-1 4.25-4.5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	440	60		mg/Kg	20	9/28/2022 4:26:00 PM	70452
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 7:24:11 PM	70411
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/28/2022 7:24:11 PM	70411
Surr: DNOP	109	21-129		%Rec	1	9/28/2022 7:24:11 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Surr: BFB	94.1	37.7-212		%Rec	1	9/27/2022 2:39:26 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Xylenes, Total	ND	0.097		mg/Kg	1	9/27/2022 2:39:26 PM	70399
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/27/2022 2:39:26 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order: 2209C76

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C76

Project: Federal 33

Lab ID: 2209C76-004

Collection Date: 9/21/2022 10:06:00 AM

Client Sample ID: P-2 0-2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	9/28/2022 4:10:52 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 7:35:10 PM	70411
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/28/2022 7:35:10 PM	70411
Surr: DNOP	98.7	21-129		%Rec	1	9/28/2022 7:35:10 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Surr: BFB	94.1	37.7-212		%Rec	1	9/27/2022 3:02:57 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Toluene	ND	0.048		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Xylenes, Total	ND	0.095		mg/Kg	1	9/27/2022 3:02:57 PM	70399
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	9/27/2022 3:02:57 PM	70399

Lab ID: 2209C76-005

Collection Date: 9/21/2022 10:08:00 AM

Client Sample ID: P-2 0-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	76	60		mg/Kg	20	9/28/2022 4:23:17 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/28/2022 7:46:12 PM	70411
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2022 7:46:12 PM	70411
Surr: DNOP	106	21-129		%Rec	1	9/28/2022 7:46:12 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Surr: BFB	93.9	37.7-212		%Rec	1	9/27/2022 3:26:31 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 3:26:31 PM	70399
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/27/2022 3:26:31 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order: 2209C76

Date Reported: 10/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Lab Order: 2209C76

Project: Federal 33

Lab ID: 2209C76-006

Collection Date: 9/21/2022 10:10:00 AM

Client Sample ID: P-2 4.25-4.5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	210	59		mg/Kg	20	9/28/2022 4:35:41 PM	70457
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/28/2022 7:57:09 PM	70411
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2022 7:57:09 PM	70411
Surr: DNOP	93.4	21-129		%Rec	1	9/28/2022 7:57:09 PM	70411
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Surr: BFB	94.6	37.7-212		%Rec	1	9/27/2022 3:50:02 PM	70399
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Toluene	ND	0.049		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 3:50:02 PM	70399
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	9/27/2022 3:50:02 PM	70399

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209C76

03-Oct-22

Client: R.T. Hicks Consultants, LTD**Project:** Federal 33

Sample ID: MB-70452	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70452	RunNo: 91368								
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272046			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70452	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70452	RunNo: 91368								
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272047			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Sample ID: MB-70457	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70457	RunNo: 91361								
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272148			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70457	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70457	RunNo: 91361								
Prep Date: 9/28/2022	Analysis Date: 9/28/2022	SeqNo: 3272149			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C76
03-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: Federal 33

Sample ID: LCS-70411	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70411	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3272003	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	82.3	64.4	127			
Surr: DNOP	4.2		5.000		84.7	21	129			

Sample ID: MB-70411	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70411	RunNo: 91371								
Prep Date: 9/26/2022	Analysis Date: 9/28/2022	SeqNo: 3272004	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.7		10.00		76.9	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209C76
03-Oct-22

Client: R.T. Hicks Consultants, LTD
Project: Federal 33

Sample ID: LCS-70399	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270523		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: mb-70399	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70399	RunNo: 91359								
Prep Date: 9/26/2022	Analysis Date: 9/27/2022	SeqNo: 3270525		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 8

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209C76

03-Oct-22

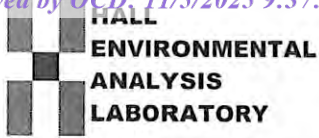
Client: R.T. Hicks Consultants, LTD**Project:** Federal 33

Sample ID: lcs-70399	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270576		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: mb-70399	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 70399			RunNo: 91359						
Prep Date: 9/26/2022	Analysis Date: 9/27/2022			SeqNo: 3270578		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **R.T. Hicks Consultants, LTD**

Work Order Number: **2209C76**

RcptNo: 1

Received By: **Juan Rojas**

9/23/2022 8:40:00 AM

Juan Rojas

Completed By: **Cheyenne Cason**

9/23/2022 9:16:38 AM

Cheyenne Cason

Reviewed By:

Kla 9.23.22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *TMC 9/23/22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

May 17, 2021

Madison Buechter

R.T. Hicks Consultants, LTD
901 Rio Grande Blvd. NW
Suite F-142
Albuquerque, NM 87104
TEL: (505) 266-5004
FAX: (505) 266-0745

RE: RWO Federal 33

OrderNo.: 2105386

Dear Madison Buechter:

Hall Environmental Analysis Laboratory received 24 sample(s) on 5/8/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: A 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 8:40:00 AM

Lab ID: 2105386-001

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	17000	610		mg/Kg	200	5/13/2021 8:34:27 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 7:03:29 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 7:03:29 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 7:03:29 PM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2021 7:03:29 PM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/10/2021 7:03:29 PM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 27

Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: A 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 8:43:00 AM

Lab ID: 2105386-002

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	11000	600		mg/Kg	200	5/13/2021 8:46:52 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/10/2021 8:14:23 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 8:14:23 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 8:14:23 PM	59895
Xylenes, Total	ND	0.097		mg/Kg	1	5/10/2021 8:14:23 PM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/10/2021 8:14:23 PM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: B 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 8:45:00 AM

Lab ID: 2105386-003

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	14000	600		mg/Kg	200	5/13/2021 8:59:16 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 8:37:58 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 8:37:58 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 8:37:58 PM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2021 8:37:58 PM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/10/2021 8:37:58 PM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: B 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 8:47:00 AM

Lab ID: 2105386-004

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	13000	610		mg/Kg	200	5/13/2021 9:11:40 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 9:01:35 PM	59895
Toluene	ND	0.050		mg/Kg	1	5/10/2021 9:01:35 PM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 9:01:35 PM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/10/2021 9:01:35 PM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/10/2021 9:01:35 PM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: C 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 8:50:00 AM

Lab ID: 2105386-005

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8700	300		mg/Kg	100	5/13/2021 9:24:04 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 9:24:56 PM	59895
Toluene	ND	0.050		mg/Kg	1	5/10/2021 9:24:56 PM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 9:24:56 PM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 9:24:56 PM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/10/2021 9:24:56 PM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: C 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 8:53:00 AM

Lab ID: 2105386-006

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8800	600		mg/Kg	200	5/13/2021 9:36:29 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/10/2021 9:48:24 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 9:48:24 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 9:48:24 PM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2021 9:48:24 PM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/10/2021 9:48:24 PM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: D 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 8:57:00 AM

Lab ID: 2105386-007

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8800	300		mg/Kg	100	5/13/2021 9:48:53 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/10/2021 11:23:11 PM	59895
Toluene	ND	0.050		mg/Kg	1	5/10/2021 11:23:11 PM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 11:23:11 PM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/10/2021 11:23:11 PM	59895
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	5/10/2021 11:23:11 PM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: D 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:00:00 AM

Lab ID: 2105386-008

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	9000	590		mg/Kg	200	5/13/2021 10:01:18 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/10/2021 11:46:55 PM	59895
Toluene	ND	0.049		mg/Kg	1	5/10/2021 11:46:55 PM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 11:46:55 PM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2021 11:46:55 PM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/10/2021 11:46:55 PM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2105386
Date Reported: 5/17/2021

CLIENT: R.T. Hicks Consultants, LTD Client Sample ID: E 0-4
Project: RWO Federal 33 Collection Date: 5/7/2021 9:03:00 AM
Lab ID: 2105386-009 Matrix: SOIL Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	17000	1500		mg/Kg	500	5/13/2021 10:38:33 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 12:10:32 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 12:10:32 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 12:10:32 AM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/11/2021 12:10:32 AM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/11/2021 12:10:32 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: E 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:05:00 AM

Lab ID: 2105386-010

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	19000	1500		mg/Kg	500	5/13/2021 10:50:57 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 12:34:03 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 12:34:03 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 12:34:03 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 12:34:03 AM	59895
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/11/2021 12:34:03 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2105386
Date Reported: 5/17/2021

CLIENT: R.T. Hicks Consultants, LTD Client Sample ID: F 0-4
Project: RWO Federal 33 Collection Date: 5/7/2021 9:07:00 AM
Lab ID: 2105386-011 Matrix: SOIL Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5000	150		mg/Kg	50	5/13/2021 11:03:22 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 12:57:33 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 12:57:33 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 12:57:33 AM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/11/2021 12:57:33 AM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/11/2021 12:57:33 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: F 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:09:00 AM

Lab ID: 2105386-012

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6200	300		mg/Kg	100	5/13/2021 11:15:47 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/11/2021 1:21:05 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 1:21:05 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 1:21:05 AM	59895
Xylenes, Total	ND	0.097		mg/Kg	1	5/11/2021 1:21:05 AM	59895
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/11/2021 1:21:05 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: G 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:11:00 AM

Lab ID: 2105386-013

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 4:32:27 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 1:44:26 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 1:44:26 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 1:44:26 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 1:44:26 AM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/11/2021 1:44:26 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: G 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:13:00 AM

Lab ID: 2105386-014

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 4:44:51 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 2:07:49 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 2:07:49 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 2:07:49 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 2:07:49 AM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/11/2021 2:07:49 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: H 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:16:00 AM

Lab ID: 2105386-015

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6200	300		mg/Kg	100	5/13/2021 11:28:12 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 2:31:20 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 2:31:20 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 2:31:20 AM	59895
Xylenes, Total	ND	0.098		mg/Kg	1	5/11/2021 2:31:20 AM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/11/2021 2:31:20 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: H 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:18:00 AM

Lab ID: 2105386-016

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4000	150		mg/Kg	50	5/13/2021 11:40:37 AM	59993
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 2:54:52 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 2:54:52 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 2:54:52 AM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/11/2021 2:54:52 AM	59895
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/11/2021 2:54:52 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: I 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:21:00 AM

Lab ID: 2105386-017

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8800	300		mg/Kg	100	5/14/2021 7:21:35 AM	59998
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 3:42:03 AM	59895
Toluene	ND	0.049		mg/Kg	1	5/11/2021 3:42:03 AM	59895
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2021 3:42:03 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 3:42:03 AM	59895
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/11/2021 3:42:03 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: I 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:23:00 AM

Lab ID: 2105386-018

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	7200	300		mg/Kg	100	5/14/2021 7:34:00 AM	59998
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 4:05:40 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 4:05:40 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 4:05:40 AM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/11/2021 4:05:40 AM	59895
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/11/2021 4:05:40 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: J 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:26:00 AM

Lab ID: 2105386-019

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 1:58:39 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 4:29:15 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 4:29:15 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 4:29:15 AM	59895
Xylenes, Total	ND	0.10		mg/Kg	1	5/11/2021 4:29:15 AM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/11/2021 4:29:15 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: J 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:28:00 AM

Lab ID: 2105386-020

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 2:11:04 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/11/2021 4:52:56 AM	59895
Toluene	ND	0.050		mg/Kg	1	5/11/2021 4:52:56 AM	59895
Ethylbenzene	ND	0.050		mg/Kg	1	5/11/2021 4:52:56 AM	59895
Xylenes, Total	ND	0.099		mg/Kg	1	5/11/2021 4:52:56 AM	59895
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/11/2021 4:52:56 AM	59895

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: K 0-4

Project: RWO Federal 33

Collection Date: 5/7/2021 9:31:00 AM

Lab ID: 2105386-021

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 2:23:29 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	5/10/2021 12:40:00 PM	59896
Toluene	ND	0.050		mg/Kg	1	5/10/2021 12:40:00 PM	59896
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 12:40:00 PM	59896
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 12:40:00 PM	59896
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	5/10/2021 12:40:00 PM	59896

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: K 4.25

Project: RWO Federal 33

Collection Date: 5/7/2021 9:33:00 AM

Lab ID: 2105386-022

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	60	60		mg/Kg	20	5/13/2021 2:35:54 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	5/10/2021 1:40:00 PM	59896
Toluene	ND	0.050		mg/Kg	1	5/10/2021 1:40:00 PM	59896
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 1:40:00 PM	59896
Xylenes, Total	ND	0.10		mg/Kg	1	5/10/2021 1:40:00 PM	59896
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	5/10/2021 1:40:00 PM	59896

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: AO

Project: RWO Federal 33

Collection Date: 5/7/2021 9:40:00 AM

Lab ID: 2105386-023

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	25000	1500		mg/Kg	500	5/14/2021 7:46:25 AM	59998
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	5/10/2021 2:00:00 PM	59896
Toluene	ND	0.050		mg/Kg	1	5/10/2021 2:00:00 PM	59896
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2021 2:00:00 PM	59896
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 2:00:00 PM	59896
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	5/10/2021 2:00:00 PM	59896

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order 2105386

Date Reported: 5/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Client Sample ID: GO

Project: RWO Federal 33

Collection Date: 5/7/2021 9:43:00 AM

Lab ID: 2105386-024

Matrix: SOIL

Received Date: 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/13/2021 3:25:34 PM	59998
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	5/10/2021 2:20:00 PM	59896
Toluene	ND	0.049		mg/Kg	1	5/10/2021 2:20:00 PM	59896
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2021 2:20:00 PM	59896
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2021 2:20:00 PM	59896
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	5/10/2021 2:20:00 PM	59896

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105386

17-May-21

Client: R.T. Hicks Consultants, LTD**Project:** RWO Federal 33

Sample ID: MB-59993	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59993	RunNo: 77319								
Prep Date: 5/12/2021	Analysis Date: 5/12/2021	SeqNo: 2744422 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59993	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59993	RunNo: 77319								
Prep Date: 5/12/2021	Analysis Date: 5/12/2021	SeqNo: 2744423 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Sample ID: MB-59998	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59998	RunNo: 77382								
Prep Date: 5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745670 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59998	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59998	RunNo: 77382								
Prep Date: 5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745671 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105386

17-May-21

Client: R.T. Hicks Consultants, LTD**Project:** RWO Federal 33

Sample ID: mb-59895	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59895	RunNo: 77262								
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: 2740981 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-59895	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59895	RunNo: 77262								
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: 2740982 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.8	80	120			
Toluene	1.0	0.050	1.000	0	99.9	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: 2105386-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: A 0-4	Batch ID: 59895	RunNo: 77262								
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: 2740984 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	76.3	120			
Toluene	1.1	0.050	1.000	0	106	78.5	120			
Ethylbenzene	1.1	0.050	1.000	0	107	78.1	124			
Xylenes, Total	3.2	0.10	3.000	0	106	79.3	125			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: 2105386-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: A 0-4	Batch ID: 59895	RunNo: 77262								
Prep Date: 5/8/2021	Analysis Date: 5/10/2021	SeqNo: 2740985 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9921	0	103	80	120	1.95	20	
Toluene	1.0	0.050	0.9921	0	105	80	120	1.80	20	
Ethylbenzene	1.0	0.050	0.9921	0	106	80	120	2.16	20	
Xylenes, Total	3.2	0.099	2.976	0	106	80	120	1.05	20	
Surr: 4-Bromofluorobenzene	1.1		0.9921		108	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105386

17-May-21

Client: R.T. Hicks Consultants, LTD**Project:** RWO Federal 33

Sample ID: LCS-59896	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 59896			RunNo: 77292						
Prep Date: 5/8/2021	Analysis Date: 5/10/2021			SeqNo: 2741808		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.90	0.050	1.000	0	89.9	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.0	70	130			

Sample ID: mb-59896	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 59896			RunNo: 77292						
Prep Date: 5/8/2021	Analysis Date: 5/10/2021			SeqNo: 2741809		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		83.9	70	130			

Sample ID: 2105386-021ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: K 0-4	Batch ID: 59896			RunNo: 77292						
Prep Date: 5/8/2021	Analysis Date: 5/10/2021			SeqNo: 2741811		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9804	0	90.7	76.3	120			
Toluene	0.89	0.049	0.9804	0	90.4	78.5	120			
Ethylbenzene	0.91	0.049	0.9804	0	93.3	78.1	124			
Xylenes, Total	2.7	0.098	2.941	0	91.4	79.3	125			
Surr: 4-Bromofluorobenzene	0.84		0.9804		85.6	70	130			

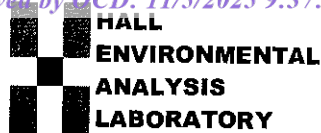
Sample ID: 2105386-021amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: K 0-4	Batch ID: 59896			RunNo: 77292						
Prep Date: 5/8/2021	Analysis Date: 5/10/2021			SeqNo: 2741812		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9794	0	91.8	80	120	1.09	20	
Toluene	0.90	0.049	0.9794	0	92.1	80	120	1.74	20	
Ethylbenzene	0.93	0.049	0.9794	0	95.4	80	120	2.23	20	
Xylenes, Total	2.7	0.098	2.938	0	93.3	80	120	1.95	20	
Surr: 4-Bromofluorobenzene	0.83		0.9794		84.3	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **R.T. Hicks Consultants, LTD**

Work Order Number: **2105386**

RcptNo: 1

Received By: **Isaiah Ortiz**

5/8/2021 8:25:00 AM

IOX

Completed By: **Isaiah Ortiz**

5/8/2021 9:11:17 AM

IOX

Reviewed By: *AN 05/08/2021*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

IO

of preserved bottles checked for pH: *5/8/21*
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Project Manager:

Madison Buehler

Sampler: Madison Buehler

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): $11 - 01 = 1.0$ (°C)

1. *What is the purpose of the study?*
 2. *What are the research questions or hypotheses?*
 3. *What is the study design?*
 4. *What is the sample size and how was it selected?*
 5. *What are the variables being measured?*
 6. *What are the data collection methods?*
 7. *What are the results of the study?*
 8. *What are the conclusions of the study?*
 9. *What are the limitations of the study?*
 10. *What are the implications of the study?*

Container	Preservative	HEAL No.

Type and #	Type
710.5386	

407.	T	1
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Q	JK	
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237

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contracted to other accredited laboratories. This serves as notice of this

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Chain-of-Custody Record

Client: RT Hicks ConsultantsMailing Address: 901 Rio Grande Blvd NWSte F-142 Albuquerque NM 87104Phone #: (505) 260-5004email or Fax#: madison@rthicksconsultants.com

QA/QC Package:

☒ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Project Manager:

Madison BuechterSampler: Madison BuechterOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CP): 11-0.1 = 10 (°C)

Date Time Matrix Sample Name

0840 0840 Soil A0-40843 0843 | A 4.250845 0845 | B 0-40847 0847 | B 4.250850 0850 | C 0-40853 0853 | C 4.250857 0857 | D 0-40900 0900 | D 4.250903 0903 | E 0-40905 0905 | E 4.250907 0907 | F 0-40909 0909 ↓ F 4.25Date: 08/07/2021Relinquished by: Madison BuechterDate: 08/07/2021

Relinquished by:

Turn-Around Time:

☒ Standard ☒ RushProject Name: RWOFederal 33

Project #:

Project Manager:

Madison BuechterSampler: Madison BuechterOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CP): 11-0.1 = 10 (°C)

Container Type and #

4oz jar Ice| 013| 014| 015| 016| 017| 018| 019| 020| 021| 022| 023| 024Received by: [Signature]Date: 5/12/11Time: 11:28 AM

Received by:

Date: 5/12/11Time: 11:28 AM

Analysis Request

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

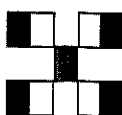
RCRA 8 Metals

☐ F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 523304

CONDITIONS

Operator: RAY WESTALL OPERATING, INC. P.O. Box 4 Loco Hills, NM 88255	OGRID: 119305
	Action Number: 523304
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	11/5/2025