*Received by OCD: 3/22/2022 9:59:17 AM* 

March 21, 2022 Ms. Monica Smith

Environmental Specialist Harvest Four Corners 1755 Arroyo Drive Bloomfield, New Mexico 87413

Subject: 2021 Annual Groundwater Report Lateral H-21 Pipeline Release Incident Number NCS1907233330 Rio Arriba County, New Mexico REVIEWED

By Nelson Velez at 8:11 am, Nov 28, 2022

<sup>c</sup>49

Review of the 2021 Annual Groundwater Report: Content satisfactory

1. Continue quarterly groundwater sampling for monitoring wells TMW01, TMW02, TMW03, TMW04, TMW06, TMW07, TMW08, TMW09, and TMW10.

2. Continue quarterly groundwater monitoring until eight consecutive quarters of compliance with NMWQCC standards is achieved in lieu of submitting a Stage 2 Abatement Plan

3. If contaminant concentrations rebound and exceed NMWQCC standards, a Stage 2 Abatement Plan per NMAC 19.15.30 remediation alternative must be completed

4. Submit the Annual Monitoring Report to the OCD no later than March 31, 2023.

Dear Ms. Smith,

On behalf of Harvest Four Corners, LLC (Harvest), WSP USA Inc. (WSP), presents this annual report for activities conducted at the Lateral H-21 Pipeline Release (Site), Incident Number NCS1907233330, between January and December 2021. The scope of work for this project was continued remediation and monitoring of petroleum hydrocarbon impacts to groundwater resulting from a pipeline release in March 2019.

# INTRODUCTION

The Site is located approximately 300 feet east of Largo Canyon Wash in Dogie Canyon between Julian Canyon and Forbes Canyon in Unit F of Section 4, Township 25 North, Range 6 West, Rio Arriba County, New Mexico, approximately 28 miles southeast of Blanco, New Mexico (Figure 1). The Site is an active pipeline that transports gas to the Dogie Compression Station, which is located approximately 1,750 feet northwest of the Site. On March 12, 2019, an unknown volume of produced water and natural gas condensate and approximately 658 thousand cubic feet (MCF) of natural gas were released from the Site due to corrosion on the pipeline. Upon discovery, the release was immediately contained, and the pipeline was shut in. An initial C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on March 13, 2019, and assigned incident number NCS1907233330.

Harvest excavated approximately 3,200 cubic yards of impacted soil and subsequently disposed of the soil at the Envirotech Landfarm in Bloomfield, New Mexico. The excavation extent is illustrated on Figure 2. A NMOCD representative witnessed collection of eight confirmation soil samples from the excavation sidewalls on March 29 and April 5, 2019. Laboratory analytical results indicated the concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride in soil on the sidewalls of the excavation were below the NMOCD Table 1 closure criteria. Soil analytical results were previously submitted in the *Revised Stage 1 Abatement Plan* submitted in June 2021. While excavating, groundwater was encountered at approximately 4 feet below ground surface (bgs). After impacted soil was removed, Harvest backfilled a portion of the excavation with clean fill and left a portion of the excavation open to allow access to the groundwater.

Between early April and June 2019, Harvest pumped approximately 3,800 barrels of fluid from the excavation and disposed of it at Agua Moss in Bloomfield, New Mexico. WSP was retained by Harvest to collect grab samples of the water in the portion of the excavation that remained open. Five water samples were collected from the open excavation between April 3 and June 6, 2019, to evaluate the quality of groundwater. All five samples exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard for benzene.

In July 2019, temporary monitoring wells TMW01 through TMW08 were installed to delineate impacts to groundwater. Boreholes were advanced using a hand auger ranging from 5 feet to 8 feet bgs. Once saturated soils were encountered, the boreholes were advanced an additional 2.5 feet into the saturated zone to allow temporary monitoring wells to be installed within the groundwater aquifer. Prepacked temporary groundwater monitoring wells were installed in each borehole with screened casing across the groundwater interface and solid casing to the

WSP USA 848 EAST SECOND AVENUE DURANGO, CO 81301

Tel.: 970-385-1096 wsp.com

Released to Imaging: 11/28/2022 9:34:37 AM

vsp

surface. Wells were constructed out of 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and prepacked 2-inch Schedule 40 PVC 0.010-inch slotted screen wrapped with 65-mesh stainless steel screen and prepacked with 20/40 silica sand. Anulus volume between the prepacked well screen and the borehole were filled with clean, native fill material. The monitoring wells were completed with flush-mount well vaults with steel protective plates and were cemented into the ground. Temporary monitoring well TMW05 was found to be destroyed in 2020.

In April 2021, temporary monitoring wells TMW09 and TMW10 were installed in the same manner described above to further delineate impacted groundwater observed in TMW03. Temporary groundwater monitoring well locations are depicted on Figures 2 through 4.

# SCOPE OF WORK

Quarterly groundwater monitoring activities were conducted at the Site in April, September, and November of 2021. WSP measured groundwater elevations and collected groundwater samples from monitoring wells TMW01, TMW02, TMW03, TMW04, TMW06, TMW07, TMW08, TMW09, and TMW10.

## WATER LEVEL MEASUREMENTS

During each quarterly monitoring event, WSP measured depth to groundwater and total depth in all existing wells with an oil/water interface probe. The interface probe was decontaminated with Alconox<sup>™</sup> soap and rinsed with distilled water prior to each measurement. WSP used top-of-casing elevations above mean sea level (amsl) to determine groundwater elevations and draft inferred groundwater potentiometric surfaces to determine groundwater flow direction and gradient. Contours were inferred based on groundwater elevations and physical characteristics at the Site (topography, proximity to irrigation ditches, etc.). Groundwater elevation data are summarized in Table 1. Groundwater elevations and potentiometric surfaces are depicted for each quarterly monitoring event on Figure 2 (April 2021), Figure 3 (September 2021), and Figure 4 (November 2021).

## **GROUNDWATER SAMPLING**

The volume of groundwater in monitoring wells was calculated and a minimum of three well casing volumes of groundwater were purged from each monitoring well or until the monitoring well purged dry using a peristaltic pump and dedicated tubing. Purge water was collected and disposed of at a nearby Harvest facility. Groundwater samples were collected into laboratory provided sample containers. Groundwater samples were submitted to Hall Environmental Analytical Laboratory (HEAL) for laboratory analysis of BTEX by Environmental Protection Agency (EPA) Method 8021B or by EPA method 8260. Samples were labeled with the date and time of collection, monitoring well name, project name, sample collector's name, and parameters to be analyzed. Samples were immediately sealed and packed on ice. No sample was collected from well temporary monitoring well TMW04 in September 2021 due to an insufficient water column present in the well.

#### **GROUNDWATER SAMPLING RESULTS**

Groundwater flow direction at the Site is generally north and east towards Largo Canyon. Measurable phaseseparated hydrocarbons (PSH) was not detected in any monitoring wells during the 2021 quarterly sampling events. Groundwater analytical results indicate BTEX concentrations did not exceed NMWQCC standards in any of the wells sampled in 2021. Groundwater analytical results are presented in Table 2 and laboratory analytical reports are included in Enclosure A.

## CONCLUSIONS

The quantity of soil excavated from the area surrounding the release point and the total volume of fluid pumped from the excavation appear to have remediated the impacts to soil and the majority of the impacts to groundwater. This is confirmed by the absence of sidewall soil exceeding the NMOCD Table 1 closure criteria following excavation activities and decreasing dissolved-phase benzene concentrations in groundwater over time after the installation of temporary monitoring wells. Previously observed elevated benzene concentrations in groundwater have since diminished to below NMWQCC standards for the three 2021 quarterly sampling events.

# vsp

## **FUTURE WORK**

Harvest proposes continued groundwater sampling on a quarterly basis for monitoring wells TMW01, TMW02, TMW03, TMW04, TMW06, TMW07, TMW08, TMW09, and TMW10. Quarterly sampling will continue until BTEX concentrations do not exceed NMWQCC standards for eight consecutive quarters.

Kind regards,

Dregory Paleze

Gregory Palese Assistant Consultant, Geologist

Brooke Herb Senior Consultant, Geologist

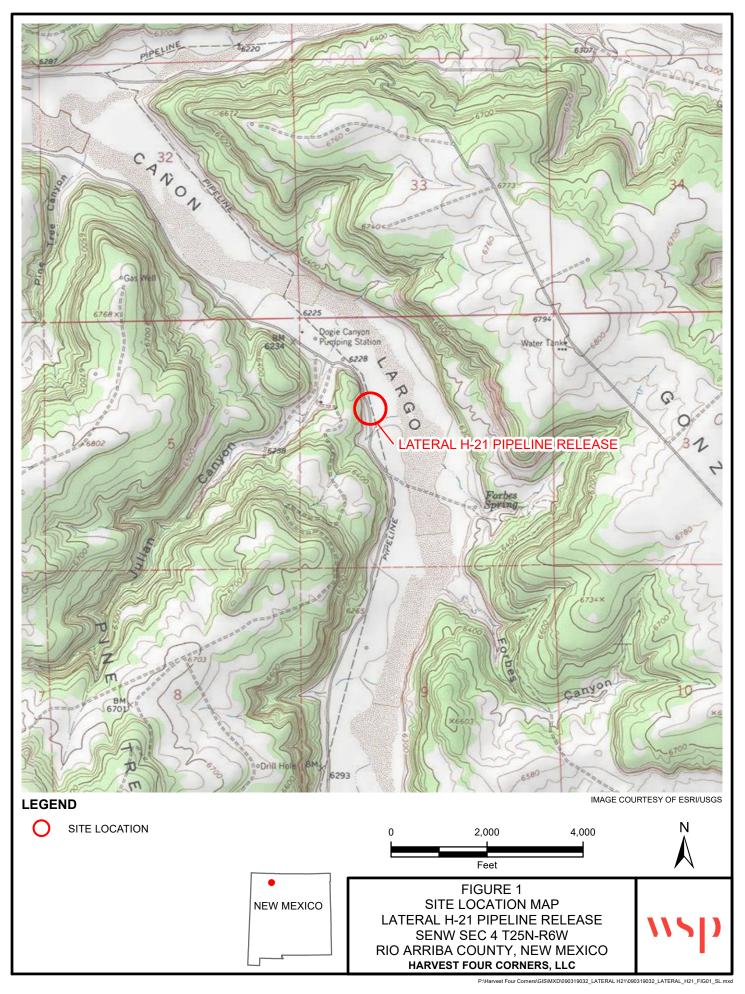
**Enclosed:** 

Figure 1: Site Location Map Figure 2: Groundwater Elevations and Analytical Results (April 2021) Figure 3: Groundwater Elevations and Analytical Results (September 2021) Figure 4: Groundwater Elevations and Analytical Results (November 2021)

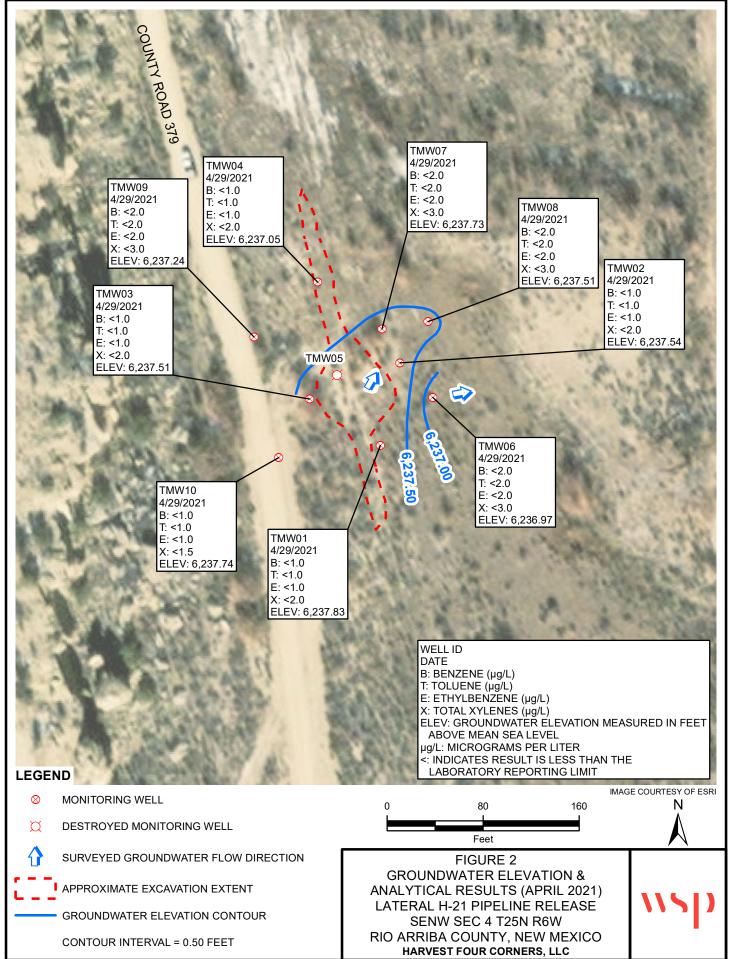
Table 1: Groundwater Elevation SummaryTable 2: Groundwater Analytical Results

Enclosure A: Laboratory Analytical Reports

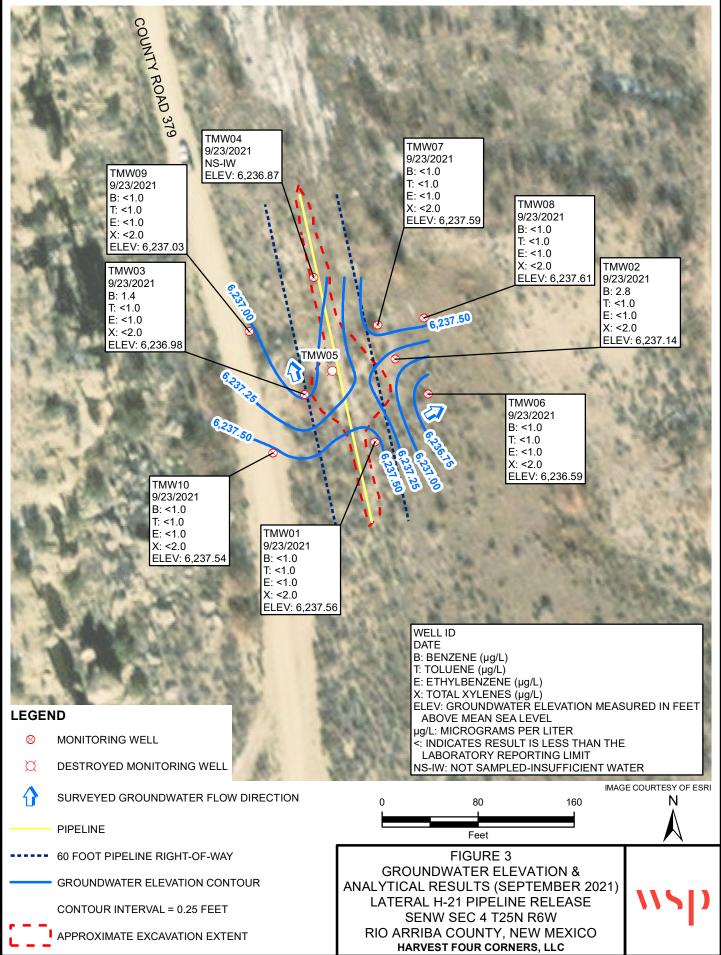
# **FIGURES**



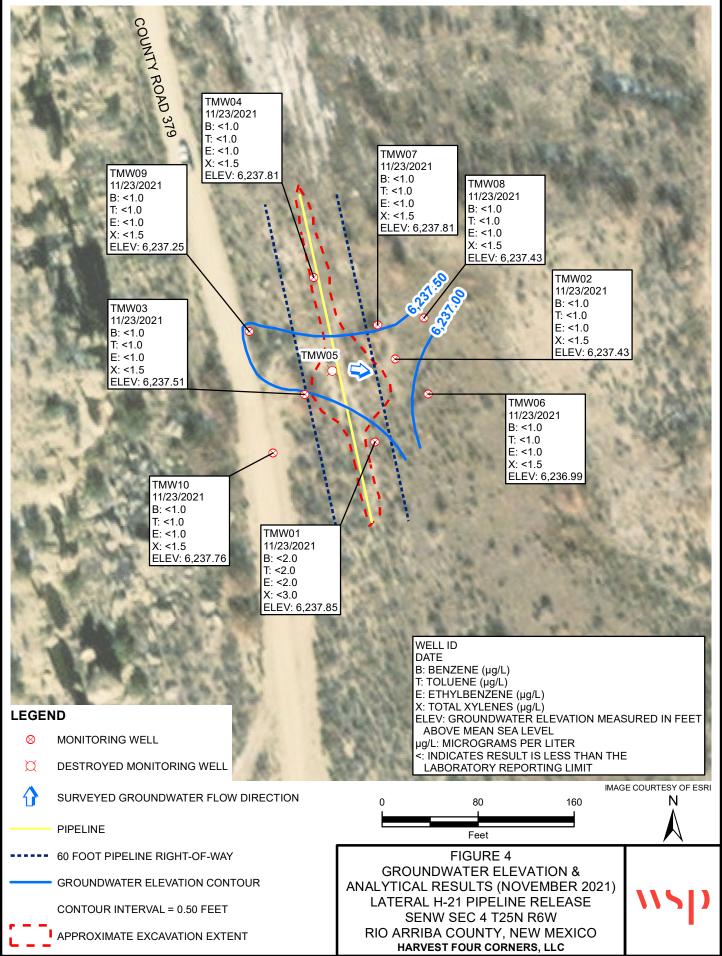
Released to Imaging: 11/28/2022 9:34:37 AM



**Released to Imaging: 11/28/2022 9:34:37 AM** 



Released to Imaging: 11/28/2022 9:34:37 AM



## GROUNDWATER ELEVATION SUMMARY LATERAL H-21 PIPELINE RELEASE RIO ARRIBA COUNTY, NEW MEXICO

Well ID	Sample Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
	7/17/2019		4.11	6,238.01
	7/23/2019		4.12	6,238.00
	7/25/2019		4.10	6,238.02
TMW01	8/7/2020	6,242.12	4.23	6,237.89
	4/29/2021		4.29	6,237.83
	9/23/2021		4.56	6,237.56
	11/23/2021		4.27	6,237.85
	7/17/2019		3.25	6,237.75
	7/23/2019		3.26	6,237.74
	7/25/2019		3.25	6,237.75
TMW02	8/7/2020	6,241.00	3.22	6,237.78
	4/29/2021		3.46	6,237.54
	9/23/2021		3.86	6,237.14
	11/23/2021		3.57	6,237.43
	7/17/2019		4.77	6,237.83
	7/23/2019	/2019 5.66		6,236.94
	7/25/2019		4.83	6,237.77
TMW03	8/7/2020	6,242.60	5.96	6,236.64
	4/29/2021		5.09	6,237.51
	9/23/2021		5.02	6,237.58
	11/23/2021		5.09	6,237.51
	7/17/2019		4.20	6,237.37
	7/23/2019		5.60	6,235.97
	7/25/2019		4.28	6,237.29
TMW04	8/7/2020	6,241.57	4.50	6,237.07
	4/29/2021		4.52	6,237.05
	9/23/2021		4.70	6,236.87
	11/23/2021		3.76	6,237.81
	7/17/2019		4.01	6,237.73
TMW05	7/23/2019	6 241 74	4.02	6,237.72
1 101 00 000	7/25/2019	6,241.74	4.02	6,237.72
	8/7/2020		Destroyed	Destroyed
TMUUOC	7/23/2019	6 240 61	3.54	6,237.07
TMW06	7/25/2019	6,240.61	3.43	6,237.18

### GROUNDWATER ELEVATION SUMMARY LATERAL H-21 PIPELINE RELEASE RIO ARRIBA COUNTY, NEW MEXICO

Well ID	Sample Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
	8/7/2020		3.64	6,236.97
TMW06	4/29/2021	6,240.61	3.64	6,236.97
1 101 00 00	9/23/2021	0,240.01	4.02	6,236.59
	11/23/2021		3.62	6,236.99
	7/23/2019		3.55	6,237.87
	7/25/2019		3.45	6,237.97
	8/7/2020	6 2 4 1 4 2	3.70	6,237.72
TMW07	4/29/2021	6,241.42	3.69	6,237.73
	9/23/2021 3		3.83	6,237.59
	11/23/2021		3.61	6,237.81
	7/25/2019		3.25	6,237.65
	8/7/2020		3.52	6,237.38
TMW08			3.39	6,237.51
	08 <u>4/29/2021</u> 6,240 <u>9/23/2021</u>		3.29	6,237.61
	11/23/2021		3.47	6,237.43
	11/20/2021			0,201110
	4/29/2021		6.42	6,237.24
TMW09	9/23/2021	6,243.66	6.63	6,237.03
	11/23/2021		6.41	6,237.25
	4/00/0001		< <b>2</b> 0	6 0 0 7 7 4
	4/29/2021		6.20	6,237.74
TMW10	TMW10 <u>9/23/2021</u> 6,243.94	6.40	6,237.54	
	11/23/2021		6.18	6,237.76

#### Notes:

AMSL - above mean sea level

BTOC - below top of casing

### GROUNDWATER ANALYTICAL RESULTS LATERAL H-21 PIPELINE RELEASE RIO ARRIBA COUNTY, NEW MEXICO

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)
NMWQCO	C Standard	5	1,000	700	620
	4/3/2019	310	330	8.3	41
Open	4/10/2019	140	89	2.7	20
Excavation	4/22/2019	31	36	<2.0	5.5
Grab Samples	5/9/2019	220	160	3.8	24
	6/3/2019	39	5.4	<1.0	<1.5
	7/17/2019	<1.0	<1.0	<1.0	<2.0
	8/7/2020	3.3	<1.0	6.0	<1.5
TMW01	4/29/2021	<1.0	<1.0	<1.0	<2.0
	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<2.0	<2.0	<2.0	<3.0
	7/17/2019	49	<1.0	<1.0	<2.0
	8/7/2020	8.5	<1.0	<1.0	<1.5
TMW02	4/29/2021	<1.0	<1.0	<1.0	<2.0
11111102	9/23/2021	2.8	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
	7/17/2019	<1.0	<1.0	<1.0	<2.0
	8/7/2020	16	<1.0	<1.0	<1.5
TMW03	4/29/2021	<1.0	<1.0	<1.0	<2.0
1111000	9/23/2021	1.4	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
	7/17/2019	<1.0	<1.0	<1.0	<2.0
TMW04	8/7/2020	<1.0	<1.0	<1.0	<1.5
1 M W 04	4/29/2021	<1.0	<1.0	<1.0 NS-IW	<2.0 NS-IW
	9/23/2021 11/23/2021	NS-IW	NS-IW		
	11/23/2021	<1.0	<1.0	<1.0	<1.5
TMW05	7/17/2019	<1.0	<1.0	<1.0	<2.0
11111000	8/7/2020	Destroyed	Destroyed	Destroyed	Destroyed
	7/23/2019	<1.0	<1.0	<1.0	<1.5
	8/7/2020	<1.0	<1.0	<1.0	<1.5
TMW06	4/29/2021	<2.0	<2.0	<2.0	<3.0
	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5

### GROUNDWATER ANALYTICAL RESULTS LATERAL H-21 PIPELINE RELEASE RIO ARRIBA COUNTY, NEW MEXICO

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)
NMWQC	C Standard	5	1,000	700	620
TMW07	7/23/2019	<1.0	<1.0	<1.0	<1.5
	8/7/2020	<1.0	<1.0	<1.0	<1.5
TMW07	4/29/2021	<2.0	<2.0	<2.0	<3.0
1101 00 07	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
	7/25/2019	2.2	<2.0	<2.0	<4.0
	8/7/2020	<1.0	<1.0	<1.0	<1.5
TMW08	4/29/2021	<2.0	<2.0	<2.0	<3.0
	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
	4/20/2021	2.0	2.0	2.0	2.0
	4/29/2021	<2.0	<2.0	<2.0	<3.0
TMW09	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
	4/29/2021	<1.0	<1.0	<1.0	<1.5
TMW10	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5

#### Notes:

NMWQCC- New Mexico Water Quality Control Comission
 NS-IW - not sampled due to insufficent water
 Bold - indicates result exceeds NMWQCC standard
 μg/L- micrograms per liter

< - indicates result is below laboratory reporting limit

ENCLOSURE A – LABORATORY ANALYTICAL REPORTS



May 07, 2021 Monica Smith Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

RE: Lateral H21

OrderNo.: 2104D17

Dear Monica Smith:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/30/2021 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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2104D17 Date Reported: 5/7/2021

5/4/2021 3:19:11 PM

5/4/2021 3:19:11 PM

B77139

B77139

Hall Environmental Analysis Laboratory, Inc.			Date Reported: 5/7/2021			
CLIENT: Harvest	Client Sample ID: TMW 01					
Project: Lateral H21		Collection Date: 4/29/2021 12:10:00 PM				
Lab ID: 2104D17-001	Matrix: AQUEOUS Received Date: 4/30/2021 7:25:00 AM					
Analyses	Result	RL Qu	al Units	DF	<b>Date Analyzed</b>	Batch
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	1.0	µg/L	1	5/4/2021 3:19:11 PM	B77139
Toluene	ND	1.0	µg/L	1	5/4/2021 3:19:11 PM	B77139
Ethylbenzene	ND	1.0	µg/L	1	5/4/2021 3:19:11 PM	B77139

ND

99.7

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range

µg/L

%Rec

1

1

2.0

70-130

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2104D17 Date Reported: 5/7/2021

CLIENT: Harvest	Client Sample ID: TMW 02						
Project: Lateral H21		(	Collect	ion Dat	e: 4/2	29/2021 12:40:00 PM	
Lab ID: 2104D17-002	Matrix: AQUEOUS Received Date: 4/30/2021 7:25:00 AM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	1.0	Ρ	µg/L	1	5/4/2021 3:42:59 PM	B77139
Toluene	ND	1.0	Р	µg/L	1	5/4/2021 3:42:59 PM	B77139
Ethylbenzene	ND	1.0	Ρ	µg/L	1	5/4/2021 3:42:59 PM	B77139
Xylenes, Total	ND	2.0	Ρ	µg/L	1	5/4/2021 3:42:59 PM	B77139
Surr: 4-Bromofluorobenzene	102 7	0-130	Р	%Rec	1	5/4/2021 3:42:59 PM	B77139

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

**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 Quanitative 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

Page 2 of 11

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2104D17 Date Reported: 5/7/2021

CLIENT: Harvest	Client Sample ID: TMW 03					
Project: Lateral H21	Collection Date: 4/29/2021 1:10:00 PM					
Lab ID: 2104D17-003	Matrix: AQUEOUS Received Date: 4/30/2021 7:25:00 AM					
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	1.0	µg/L	1	5/4/2021 4:06:41 PM	B77139
Toluene	ND	1.0	µg/L	1	5/4/2021 4:06:41 PM	B77139
Ethylbenzene	ND	1.0	µg/L	1	5/4/2021 4:06:41 PM	B77139
Xylenes, Total	ND	2.0	µg/L	1	5/4/2021 4:06:41 PM	B77139
Surr: 4-Bromofluorobenzene	102 7	0-130	%Rec	1	5/4/2021 4:06:41 PM	B77139

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

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 Quanitative 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

Page 3 of 11

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2104D17 Date Reported: 5/7/2021

CLIENT: Harvest	Client Sample ID: TMW 04						
Project: Lateral H21	<b>Collection Date:</b> 4/29/2021 12:55:00 PM						
Lab ID: 2104D17-004	Matrix: AQUEOUS Received Date: 4/30/2021 7:25:00 AM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	1.0	Р	µg/L	1	5/4/2021 4:30:20 PM	B77139
Toluene	ND	1.0	Р	µg/L	1	5/4/2021 4:30:20 PM	B77139
Ethylbenzene	ND	1.0	Р	µg/L	1	5/4/2021 4:30:20 PM	B77139
Xylenes, Total	ND	2.0	Р	µg/L	1	5/4/2021 4:30:20 PM	B77139
Surr: 4-Bromofluorobenzene	103 7	0-130	Р	%Rec	1	5/4/2021 4:30:20 PM	B77139

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

**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 Quanitative 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

Page 4 of 11

Analytical Report
Lab Order 2104D17

Date Reported: 5/7/2021

CLIENT: Harvest	Client Sample ID: TMW 06						
Project: Lateral H21		(	Collect	tion Dat	t <b>e:</b> 4/2	29/2021 12:15:00 PM	
Lab ID: 2104D17-005	Matrix: AQUEOUS		Recei	ved Dat	t <b>e:</b> 4/.	30/2021 7:25:00 AM	
Analyses	Result		Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SH	IORT LIST					Analys	t: BRM
Benzene	ND	2.0	D	µg/L	2	5/6/2021 3:44:36 PM	B77212
Toluene	ND	2.0	D	µg/L	2	5/6/2021 3:44:36 PM	B77212
Ethylbenzene	ND	2.0	D	µg/L	2	5/6/2021 3:44:36 PM	B77212
Xylenes, Total	ND	3.0	D	µg/L	2	5/6/2021 3:44:36 PM	B77212
Surr: 1,2-Dichloroethane-d4	113 7	0-130	D	%Rec	2	5/6/2021 3:44:36 PM	B77212
Surr: 4-Bromofluorobenzene	101 7	0-130	D	%Rec	2	5/6/2021 3:44:36 PM	B77212
Surr: Dibromofluoromethane	102 7	0-130	D	%Rec	2	5/6/2021 3:44:36 PM	B77212
Surr: Toluene-d8	104 7	0-130	D	%Rec	2	5/6/2021 3:44:36 PM	B77212

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

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 Quanitative 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

Page 5 of 11

Surr: Toluene-d8

**Analytical Report** Lab Order 2104D17

Hall Environmental Ana	lysis Laboratory, Inc.
------------------------	------------------------

5/6/2021 4:11:54 PM

B77212

CLIENT: Harvest	Client Sample ID: TMW 07										
Project: Lateral H21		<b>Collection Date:</b> 4/29/2021 2:00:00 PM									
Lab ID: 2104D17-006	Matrix: AQUEOUS Received Date: 4/30/2021 7:25:00 AM										
Analyses	Result	RL	Qual	Units	DF	<b>Date Analyzed</b>	Batch				
EPA METHOD 8260: VOLATILES SI	HORT LIST					Analysi	t: BRM				
Benzene	ND	2.0	D	µg/L	2	5/6/2021 4:11:54 PM	B77212				
Toluene	ND	2.0	D	µg/L	2	5/6/2021 4:11:54 PM	B77212				
Ethylbenzene	ND	2.0	D	µg/L	2	5/6/2021 4:11:54 PM	B77212				
Xylenes, Total	ND	3.0	D	µg/L	2	5/6/2021 4:11:54 PM	B77212				
Surr: 1,2-Dichloroethane-d4	108 7	0-130	D	%Rec	2	5/6/2021 4:11:54 PM	B77212				
Surr: 4-Bromofluorobenzene	101 7	0-130	D	%Rec	2	5/6/2021 4:11:54 PM	B77212				
Surr: Dibromofluoromethane	103 7	0-130	D	%Rec	2	5/6/2021 4:11:54 PM	B77212				

101

70-130

D

%Rec

2

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

**Qualifiers:** 

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 11

**Analytical Report** Lab Order 2104D17

Date Reported: 5/7/2021

CLIENT: Harvest	Client Sample ID: TMW 08										
Project: Lateral H21		Collection Date: 4/29/2021 12:30:00 PM									
Lab ID: 2104D17-007	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 4/30/2021 7:25:00 AM									
Analyses	Result	RL Qual Units		DF	Date Analyzed	Batch					
EPA METHOD 8260: VOLATILES SH	HORT LIST					Analys	t: BRM				
Benzene	ND	2.0	D	µg/L	2	5/6/2021 4:39:02 PM	B77212				
Toluene	ND	2.0	D	µg/L	2	5/6/2021 4:39:02 PM	B77212				
Ethylbenzene	ND	2.0	D	µg/L	2	5/6/2021 4:39:02 PM	B77212				
Xylenes, Total	ND	3.0	D	µg/L	2	5/6/2021 4:39:02 PM	B77212				
Surr: 1,2-Dichloroethane-d4	112 7	0-130	D	%Rec	2	5/6/2021 4:39:02 PM	B77212				
Surr: 4-Bromofluorobenzene	102 7	0-130	D	%Rec	2	5/6/2021 4:39:02 PM	B77212				
Surr: Dibromofluoromethane	106 7	0-130	D	%Rec	2	5/6/2021 4:39:02 PM	B77212				
Surr: Toluene-d8	102 7	0-130	D	%Rec	2	5/6/2021 4:39:02 PM	B77212				

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

**Qualifiers:** 

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 11

Surr: Toluene-d8

**Analytical Report** Lab Order 2104D17

Hall Environmental Analysis	Laboratory, Inc.
-----------------------------	------------------

5/6/2021 2:50:12 PM

B77212

CLIENT: Harvest	Client Sample ID: TMW 09										
Project: Lateral H21		Collection Date: 4/29/2021 2:10:00 PM									
Lab ID: 2104D17-008	Matrix: AQUEOUS	Matrix: AQUEOUS Received Date: 4/30/2021 7:25:00 AM									
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 8260: VOLATILES SH	ORT LIST					Analyst	BRM				
Benzene	ND	2.0	D	µg/L	2	5/6/2021 2:50:12 PM	B77212				
Toluene	ND	2.0	D	µg/L	2	5/6/2021 2:50:12 PM	B77212				
Ethylbenzene	ND	2.0	D	µg/L	2	5/6/2021 2:50:12 PM	B77212				
Xylenes, Total	ND	3.0	D	µg/L	2	5/6/2021 2:50:12 PM	B77212				
Surr: 1,2-Dichloroethane-d4	107 7	0-130	D	%Rec	2	5/6/2021 2:50:12 PM	B77212				
Surr: 4-Bromofluorobenzene	103 7	0-130	D	%Rec	2	5/6/2021 2:50:12 PM	B77212				
Surr: Dibromofluoromethane	100 7	0-130	D	%Rec	2	5/6/2021 2:50:12 PM	B77212				

103

70-130

D

%Rec

2

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

**Qualifiers:** 

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 11

Surr: Dibromofluoromethane

Surr: Toluene-d8

**Analytical Report** Lab Order 2104D17

Hall Environmental Analysis Laboratory, Inc.	
--	--

Date Reported: 5/7/2021

5/6/2021 5:06:14 PM

5/6/2021 5:06:14 PM

B77212

B77212

CLIENT: Harvest		Client Sample ID: TMW 10							
Project: Lateral H21	Collection Date: 4/29/2021 2:15:00 PM								
Lab ID: 2104D17-009	Matrix: AQUEOUS	Rec	eived Dat	te:4/	30/2021 7:25:00 AM				
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch			
EPA METHOD 8260: VOLATILES SI	HORT LIST				Analyst	BRM			
Benzene	ND	1.0	µg/L	1	5/6/2021 5:06:14 PM	B77212			
Benzene Toluene	ND ND	1.0 1.0	μg/L μg/L	1 1					
		-		1 1 1	5/6/2021 5:06:14 PM	B77212			
Toluene	ND	1.0	μg/L	•	5/6/2021 5:06:14 PM 5/6/2021 5:06:14 PM	B77212 B77212			
Toluene Ethylbenzene	ND ND ND	1.0 1.0	μg/L μg/L	•	5/6/2021 5:06:14 PM 5/6/2021 5:06:14 PM 5/6/2021 5:06:14 PM	B77212 B77212 B77212			

110

100

70-130

70-130

%Rec

%Rec

1

1

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

**Qualifiers:** 

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 11

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

WO#:	2104D17
	07-May-21

	Harvest Lateral H21									
Sample ID: mb	Sa	mpType: <b>M</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBW	E	Batch ID: B	7139	F	RunNo: 77	7139				
Prep Date:	Analy	sis Date: 5	/4/2021	S	SeqNo: 27	735291	Units: µg/L			
Analyte	Res	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	Ν	D 1.0								
Toluene	Ν	D 1.0								
Ethylbenzene	Ν	D 1.0								
Xylenes, Total	Ν	D 2.0								
Surr: 4-Bromofluoroben	izene 2	20	20.00		100	70	130			
Sample ID: 100ng b	otex lcs Sa	mpType: <b>L(</b>	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSW	E	Batch ID: B	7139	F	RunNo: 77	7139				
Prep Date:	Analy	sis Date: 5	/4/2021	5	SeqNo: 27	735292	Units: µg/L			
Analyte	Res	ılt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2	20 1.0	20.00	0	101	80	120			
Toluene	2	21 1.0	20.00	0	103	80	120			
Ethylbenzene	2	20 1.0	20.00	0	101	80	120			
Xylenes, Total	(	61 2.0	60.00	0	101	80	120			
Surr: 4-Bromofluoroben	izene 2	20	20.00		101	70	130			

**Qualifiers:** 

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 10 of 11

Released to Imaging: 11/28/2022 9:34:37 AM

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:HarvestProject:Lateral H21

Sample ID: 100ng Ics	SampT	SampType: LCS TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batcl	Batch ID: <b>B77212</b> RunNo: <b>77212</b>								
Prep Date:	Analysis E	)ate: 5/	6/2021	S	SeqNo: 27	737949	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	95.4	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.7		10.00		96.7	70	130			
Sample ID: <b>mb</b>	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8260: Volatile	es Short L	.ist	
Client ID: PBW	Batc	n ID: <b>B7</b>	7212	F	RunNo: 77	7212				
Prep Date:	Analysis E	ate: 5/	6/2021	S	SeqNo: 27	737955	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	10 9.8		10.00 10.00		105 97.5	70 70	130 130			
	-									

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 Quanitative 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

Page 11 of 11

WO#:	2104D17

Received b	v OCD:	3/22/2022	9:59:17 AM
COLUMN TWO IS NOT	ADD TO ADD		

•

HALL ENVIRC ANALY LABOR		Hall Environment Ai TEL: 505-345-39 Website: clients.	4901 Hawki Ibuquerque, NM 75 FAX: 505-345	ins NE 87109 <b>San</b> 5-4107	nple Log-In Check List						
Client Name:	Harvest	Work Order Numbe	er: 2104D17		RcptNo: 1						
Received By:	Juan Rojas	4/30/2021 7:25:00 A	М	(Juan ang)							
Completed By:	Desiree Domingu	ez 4/30/2021 8:51:00 A	M	TPS							
Reviewed By: J	R 4130	21									
Chain of Custo	ody										
I. Is Chain of Cus	stody complete?		Yes 🖌	No 🗌	Not Present						
2. How was the sa	ample delivered?		Courier								
<u>Log In</u> 3. Was an attemp	t made to cool the s	samples?	Yes 🖌	No 🗌							
4. Were all sample	es received at a ten	nperature of >0° C to 6.0°C	Yes 🗹	No 🗌							
	oper container(s)?		Yes 🗸	No 🗌							
S. Sufficient sample	e volume for indica	ted test(s)?	Yes 🗸	No 🗌							
. Are samples (ex	cept VOA and ON	G) properly preserved?	Yes 🗹	No 🗌							
<ol> <li>Was preservativ</li> </ol>	e added to bottles?	2	Yes 🗌	No 🗹	NA 🗌						
). Received at leas	st 1 vial with heads	pace <1/4" for AQ VOA?	Yes 🖌	No 🗌							
). Were any samp	ole containers receiv	ved broken?	Yes	No 🗸	/						
	match bottle label		Yes 🗸	No 🗌	# of preserved bottles checked for pH:						
C	cies on chain of cus rrectly identified on		Yes 🗹	No 🗌	(<2 or >12 unless noted) Adjusted?						
	analyses were reque	1.343	Yes 🗸								
1. Were all holding	times able to be m tomer for authoriza	et?	Yes 🗹	No 🗌	Checked by: UN 4/30/						
	g (if applicable										
5. Was client notif	ied of all discrepan	cies with this order?	Yes	No 🗌	NA 🗹						
Person N	otified:	Date:	development and the second of the	centrolennon attenden volater							
By Whom		Via:	eMail	Phone 🗌 Fax	In Person						
Regarding	g:				Carrier Connect Connection Connection Connection Connection						
Client Ins	tructions:	an source and a constant product and a constant of the second state of		and would be write the second second							
3. Additional rema	arks:										
7. <u>Cooler Inform</u> Cooler No	<u>ation</u> Temp ⁰C Cond 0.1 Good		Seal Date	Signed By							
	Good Good	Yes									

Page 1 of 1

	Chain	-of-Ci	-															lecerre			
Client:	Har	vest	Four corners	Standard Project Nam		l											NM 301				
Mailing	Address	:		Latera				49	01 H			v.hall JF -					om M 87 <sup>-</sup>	100			
~~~		3		Project #:			1			5-34					alle i		-4107				1120
Phone	#:	-										STATISTICS.	COLUMN TWO IS NOT	of the local division of	-	uest	and the second second				
email	or Fax#:	mon	ica Sendoval	Project Mana	ager:		1	Ô					SO4			nt)				T	22
QA/QC	Package: ndard	- 194 <sup>2</sup>	□ Level 4 (Full Validation)	Brooke Herb - WSP			's (802	O / MR	PCB's		8270SIMS		PO4,			Coliform (Present/Absent)					
	itation:	🗆 Az Co	ompliance	Sampler: E	carrell		LMB	/ DR	082	<del>F</del>	827(		NO <sub>2</sub> ,			eser				2	28
D EDE		□ Othe	r		-₽-Yes	🗆 No		RO	es/8	504.1)	5				(AO)	Pr					
	0 (Type) _		Τ	# of Coolers: Cooler Temp		0.1-0=0.1 (°C)	ATBI	D(G	ticid	thod	831(	Meta	2	(A	ni-V	form					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type		BTEXY MTBE/ IMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> ,	8260 (VOA)	8270 (Semi-VOA)	Total Coli					
4/29		GW	TAWOI	3VOA	HCI	-001	$\frac{1}{\lambda}$	-			_					-	$\neg$	+	-	+	
		GW	TMW02	)	1	- 002	~				March 1						-	+	-	+	+
	13:10		TMW 03			- 003												+	+		
	12:55		TMW04			-004												1	$\neg$		+
	12:15		TMW 06			- 005													$\neg$		
	14:00		TMW 07			-006								8							
	12:30		TMW 08			-007															
	14:10		TMW 09			-008															
X	14:15	<u>V</u>	TMWIO	<u>V</u>	, V	-009	1														
			81 8												eri -						
		1.11																			
Date: 4/29 Date:	Time: <i>IG 30</i> Time:	Relinquish Relinquish	is covered	Received by: Received by:-	Via: Waltz Via:	Date Time $\frac{4}{29}$	1630 Please (C) and the man					Cgn	- Snr								
4/29/21	1806 If necessary,		mitted to Hall Environmental may be subo	contracted to other a		4 30/21 7.125 es. This serves as notice of this	possil												•		(1 0 07 38n



October 06, 2021 Jennifer Deal Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

RE: Lateral H 21

OrderNo.: 2109E93

Dear Jennifer Deal:

Hall Environmental Analysis Laboratory received 8 sample(s) on 9/25/2021 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis		J	Analytical Report Lab Order: 2109E93 Date Reported: 10/6	/2021				
CLIENT:HarvestProject:Lateral H 21				I	.ab (	<b>Order:</b> 2109E	93	
Lab ID: 2109E93-001		C	ollecti	on Date	<b>e: 9</b> /2	23/2021 3:10:00 PM	Л	
Client Sample ID: TMW 01				Matrix	<b>:</b> G	ROUNDWATER		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	h ID
EPA METHOD 8021B: VOLATILES						Ana	alyst: <b>C(</b>	СМ
Benzene	ND	1.0		µg/L	1	9/30/2021 3:40:00	PM R	81727
Toluene	ND	1.0		μg/L	1	9/30/2021 3:40:00	PM R	81727
Ethylbenzene	ND	1.0		μg/L	1	9/30/2021 3:40:00	PM R	81727
Xylenes, Total	ND	2.0		μg/L	1	9/30/2021 3:40:00	PM R	81727
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	9/30/2021 3:40:00	PM R8	81727
Lab ID: 2109E93-002		C	ollecti	on Date	e: 9/2	23/2021 2:40:00 PN	Л	
Client Sample ID: TMW 02				Matrix	<b>:</b> G	ROUNDWATER		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	h ID
EPA METHOD 8021B: VOLATILES						Ana	alyst: <b>C(</b>	СМ
Benzene	2.8	1.0		µg/L	1	9/30/2021 4:38:00	PM R	81727
Toluene	ND	1.0		μg/L	1	9/30/2021 4:38:00	PM R	81727
Ethylbenzene	ND	1.0		μg/L	1	9/30/2021 4:38:00	PM R	81727
Xylenes, Total	ND	2.0		μg/L	1	9/30/2021 4:38:00	PM R	81727
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	9/30/2021 4:38:00	PM R8	81727
Lab ID: 2109E93-003		C	ollecti	on Date	e: 9/2	23/2021 3:30:00 PN	Л	
Client Sample ID: TMW 03				Matrix	: G	ROUNDWATER		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	h ID
EPA METHOD 8021B: VOLATILES						Ana	alyst: <b>CO</b>	СМ
Benzene	1.4	1.0		µg/L	1	9/30/2021 4:58:00	PM R	81727
Toluene	ND	1.0		µg/L	1	9/30/2021 4:58:00		81727
Ethylbenzene	ND	1.0		µg/L	1	9/30/2021 4:58:00		81727
-		-						
Xylenes, Total	ND	2.0		µg/L	1	9/30/2021 4:58:00	PM R&	81727

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

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 Quanitative Limit
  - % Recovery outside of range due to dilution or matrix s

- Analyte detected in the associated Method Blank Е Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH Not In Range Р

RL Reporting Limit

в

Page 1 of 4

Hall Environ	Hall Environmental Analysis Laboratory, Inc.							/ <b>202</b> 1	1
	Iarvest Lateral H 21				L	ab (	<b>)rder:</b> 2109E	93	
Lab ID:	2109E93-004		С	ollecti	on Date	: 9/2	23/2021 2:15:00 PM	Л	
Client Sample ID:	TMW 06				Matrix	: Gl	ROUNDWATER		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Be	atch ID
EPA METHOD 802	1B: VOLATILES						Ana	alyst:	ССМ
Benzene		ND	1.0		µg/L	1	9/30/2021 5:18:00	PM	R81727
Toluene		ND	1.0		μg/L	1	9/30/2021 5:18:00	РM	R81727
Ethylbenzene		ND	1.0		µg/L	1	9/30/2021 5:18:00	РМ	R81727
Xylenes, Total		ND	2.0		µg/L	1	9/30/2021 5:18:00	РМ	R81727
Surr: 4-Bromoflue	orobenzene	83.8	70-130		%Rec	1	9/30/2021 5:18:00	PM	R81727
Lab ID:	2109E93-005		С	ollecti	on Date	: 9/	23/2021 3:50:00 PN	Л	
Client Sample ID:	TMW 07				Matrix	: Gl	ROUNDWATER		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Be	atch ID
EPA METHOD 802	1B: VOLATILES						Ana	alyst:	ССМ
Benzene		ND	1.0		µg/L	1	9/30/2021 5:37:00	-	R81727
Toluene		ND	1.0		µg/L	1	9/30/2021 5:37:00	РМ	R81727
Ethylbenzene		ND	1.0		μg/L	1	9/30/2021 5:37:00	РМ	R81727
Xylenes, Total		ND	2.0		μg/L	1	9/30/2021 5:37:00	РМ	R81727
Surr: 4-Bromoflue	orobenzene	82.2	70-130		%Rec	1	9/30/2021 5:37:00	PM	R81727
Lab ID:	2109E93-006		С	ollecti	on Date	: 9/2	23/2021 3:40:00 PN	Л	
Client Sample ID:	TMW 08				Matrix	: Gl	ROUNDWATER		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 802	1B: VOLATILES						Ana	alyst:	ССМ
Benzene		ND	1.0		µg/L	1	9/30/2021 5:57:00	РM	R81727
Toluene		ND	1.0		µg/L	1	9/30/2021 5:57:00	PM	R81727
Ethylbenzene		ND	1.0		µg/L	1	9/30/2021 5:57:00		R81727
Xylenes, Total		ND	2.0		μg/L	1	9/30/2021 5:57:00	РМ	R81727
Surr: 4-Bromoflue	orobenzene	89.0	70-130		%Rec	1	9/30/2021 5:57:00	PM	R81727

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

**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 Quanitative Limit
- % Recovery outside of range due to dilution or matrix s

- Analyte detected in the associated Method Blank Е Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH Not In Range Р
- RL Reporting Limit

в

Page 2 of 4

Hall Environ	imental Analysis	nc.		t 3 6/2021					
	Harvest Lateral H 21				L	ab C	<b>)rder:</b> 2109E	93	
Lab ID:	2109E93-007		С	ollecti	on Date	: 9/2	23/2021 12:25:00 P	М	
Client Sample ID:	TMW 09				Matrix	: GI	ROUNDWATER		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I	D
EPA METHOD 80	21B: VOLATILES						Ana	lyst: CCI	М
Benzene		ND	1.0		µg/L	1	9/30/2021 6:36:00 F	PM R81	727
Toluene		ND	1.0		μg/L	1	9/30/2021 6:36:00 F	PM R81	727
Ethylbenzene		ND	1.0		μg/L	1	9/30/2021 6:36:00 F	PM R81	727
Xylenes, Total		ND	2.0		µg/L	1	9/30/2021 6:36:00 F	PM R81	727
Surr: 4-Bromofle	uorobenzene	89.9	70-130		%Rec	1	9/30/2021 6:36:00 F	PM R81	727
Lab ID:	2109E93-008		C	ollecti	on Date	: 9/2	23/2021 11:30:00 A	М	
Client Sample ID:	TMW 10				Matrix	: GI	ROUNDWATER		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I	D
EPA METHOD 80	21B: VOLATILES						Ana	lyst: CCI	М
Benzene		ND	1.0		µg/L	1	9/30/2021 6:56:00 F	- PM R81	727
Toluene		ND	1.0		µg/L	1	9/30/2021 6:56:00 F	PM R81	727
Ethylbenzene		ND	1.0		µg/L	1	9/30/2021 6:56:00 F	PM R81	727
Xylenes, Total		ND	2.0		µg/L	1	9/30/2021 6:56:00 F	PM R81	727
Surr: 4-Bromofle	uorobenzene	89.6	70-130		%Rec	1	9/30/2021 6:56:00 F	PM R81	727

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

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 Quanitative Limit
  - S % Recovery outside of range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

в

Page 3 of 4

Harvest

Lateral H 21

**Client:** 

**Project:** 

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

Sample ID: 100ng btex lcs	s SampType: LCS TestCode: EPA Me						Method 8021B: Volatiles							
Client ID: LCSW	Batch	n ID: <b>R8</b>	1727	F	RunNo: 8	1727								
Prep Date:	Analysis D	0ate: <b>9/</b>	30/2021	S	SeqNo: 2	889432	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	20	1.0	20.00	0	102	80	120							
Toluene	21	1.0	20.00	0	104	80	120							
Ethylbenzene	21	1.0	20.00	0	107	80	120							
Xylenes, Total	65	2.0	60.00	0	108	80	120							
Surr: 4-Bromofluorobenzene	18		20.00		89.0	70	130							
Sample ID: mb	SampType: MBLK TestCode: EPA Method						8021B: Volat	iles						
Client ID: PBW	Batch	n ID: <b>R8</b>	1727	1727										
Prep Date:	Analysis D	0ate: <b>9/</b>	30/2021	S	SeqNo: 2889433 U		Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	1.0												
Toluene	ND	1.0												
Ethylbenzene	ND	1.0												
Xylenes, Total	ND	2.0												
Surr: 4-Bromofluorobenzene	18		20.00		87.8	70	130							
Sample ID: 2109E93-001AMS	SampT	уре: М	6	Tes	tCode: El	PA Method	8021B: Volat	iles						
1				RunNo: 81727										
Client ID: TMW 01	Batch	h ID: <b>R8</b>	1727	F	RunNo: 8	1727								
Client ID: <b>TMW 01</b> Prep Date:	Batch Analysis D				RunNo: <b>8</b> SeqNo: <b>2</b>		Units: µg/L							
-			30/2021				Units: <b>µg/L</b> HighLimit	%RPD	RPDLimit	Qual				
Prep Date:	Analysis D	Date: 9/	30/2021	S	SeqNo: 2	889439		%RPD	RPDLimit	Qual				
Prep Date: Analyte	Analysis D Result	Date: <b>9/</b> PQL	<b>30/2021</b> SPK value	SPK Ref Val	SeqNo: 2 %REC	889439 LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Prep Date: Analyte Benzene	Analysis D Result 19	Date: <b>9/</b> PQL 1.0	30/2021 SPK value 20.00	SPK Ref Val 0.4226	SeqNo: 2 %REC 95.0	889439 LowLimit 80	HighLimit 120	%RPD	RPDLimit	Qual				
Prep Date: Analyte Benzene Toluene	Analysis D Result 19 19	Date: <b>9/</b> PQL 1.0 1.0	<b>30/2021</b> SPK value 20.00 20.00	SPK Ref Val 0.4226 0	SeqNo: 2 %REC 95.0 96.8	889439 LowLimit 80 80	HighLimit 120 120	%RPD	RPDLimit	Qual				
Prep Date: Analyte Benzene Toluene Ethylbenzene	Analysis D Result 19 19 20	Date: 9/ PQL 1.0 1.0 1.0	<b>30/2021</b> SPK value 20.00 20.00 20.00	SPK Ref Val 0.4226 0 0.2306	SeqNo: 2 %REC 95.0 96.8 99.6	889439 LowLimit 80 80 80 80	HighLimit 120 120 120	%RPD	RPDLimit	Qual				
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Analysis D Result 19 19 20 60 17	Date: 9/ PQL 1.0 1.0 1.0	30/2021 SPK value 20.00 20.00 60.00 20.00	SPK Ref Val 0.4226 0 0.2306 0	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5	889439 LowLimit 80 80 80 80 70	HighLimit 120 120 120 120		RPDLimit	Qual				
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Analysis D <u>Result</u> 19 19 20 60 17 <b>D</b> SampT	Date: 9/ PQL 1.0 1.0 1.0 2.0	30/2021 SPK value 20.00 20.00 20.00 60.00 20.00	SPK Ref Val 0.4226 0 0.2306 0 Tes	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5	889439 LowLimit 80 80 80 80 80 70 PA Method	HighLimit 120 120 120 120 120 130		RPDLimit	Qual				
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: <b>2109E93-001AMS</b>	Analysis D <u>Result</u> 19 19 20 60 17 <b>D</b> SampT	Date: 9/ PQL 1.0 1.0 1.0 2.0	30/2021 SPK value 20.00 20.00 20.00 60.00 20.00 5D 1727	SPK Ref Val 0.4226 0 0.2306 0 Tes F	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5 tCode: El	889439 LowLimit 80 80 80 70 PA Method 1727	HighLimit 120 120 120 120 120 130		RPDLimit	Qual				
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: <b>2109E93-001AMS</b> Client ID: <b>TMW 01</b>	Analysis D Result 19 19 20 60 17 D SampT Batch	Date: 9/ PQL 1.0 1.0 1.0 2.0	30/2021 SPK value 20.00 20.00 60.00 20.00 5D 1727 30/2021	SPK Ref Val 0.4226 0 0.2306 0 Tes F	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5 tCode: El RunNo: 8 SeqNo: 2	889439 LowLimit 80 80 80 80 80 70 PA Method 1727 889440	HighLimit 120 120 120 120 120 130 8021B: Volat		RPDLimit	Qual				
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: <b>2109E93-001AMSI</b> Client ID: <b>TMW 01</b> Prep Date:	Analysis D Result 19 20 60 17 D SampT Batch Analysis D	Date: 9/ PQL 1.0 1.0 2.0 Type: MS n ID: R8 Date: 9/	30/2021 SPK value 20.00 20.00 60.00 20.00 5D 1727 30/2021	SPK Ref Val 0.4226 0 0.2306 0 Tes F	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5 tCode: El RunNo: 8 SeqNo: 2	889439 LowLimit 80 80 80 80 80 70 PA Method 1727 889440	HighLimit 120 120 120 120 130 8021B: Volat Units: µg/L	iles						
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: <b>2109E93-001AMSI</b> Client ID: <b>TMW 01</b> Prep Date: Analyte	Analysis D Result 19 20 60 17 D SampT Batch Analysis D Result	Date: 9/ PQL 1.0 1.0 2.0 Type: MS on ID: R8 Date: 9/ PQL	30/2021 SPK value 20.00 20.00 60.00 20.00 5D 1727 30/2021 SPK value	SPK Ref Val 0.4226 0 0.2306 0 Tes F SPK Ref Val	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5 tCode: El RunNo: 8 SeqNo: 2 %REC	889439 LowLimit 80 80 80 80 70 PA Method 1727 889440 LowLimit	HighLimit 120 120 120 120 130 8021B: Volati Units: µg/L HighLimit	iles %RPD	RPDLimit					
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: <b>2109E93-001AMSI</b> Client ID: <b>TMW 01</b> Prep Date: Analyte Benzene	Analysis D Result 19 19 20 60 17 D SampT Batch Analysis D Result 18	Date: 9/ PQL 1.0 1.0 2.0 Type: MS n ID: R8 Date: 9/ PQL 1.0	30/2021 SPK value 20.00 20.00 20.00 20.00 5D 1727 30/2021 SPK value 20.00	SPK Ref Val 0.4226 0 0.2306 0 Tes F SPK Ref Val 0.4226	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5 tCode: El RunNo: 8 SeqNo: 2 %REC 87.6	889439 LowLimit 80 80 80 80 70 PA Method 1727 889440 LowLimit 80	HighLimit 120 120 120 120 130 8021B: Volat Units: µg/L HighLimit 120	iles %RPD 7.87	RPDLimit 20					
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: <b>2109E93-001AMSI</b> Client ID: <b>TMW 01</b> Prep Date: Analyte Benzene Toluene	Analysis D Result 19 20 60 17 D SampT Batch Analysis D Result 18 18	Date: 9/ PQL 1.0 1.0 1.0 2.0 Type: MS on ID: R8 Date: 9/ PQL 1.0 1.0 1.0	30/2021 SPK value 20.00 20.00 60.00 20.00 60.00 20.00 5D 1727 30/2021 SPK value 20.00 20.00	SPK Ref Val 0.4226 0 0.2306 0 Tes F SPK Ref Val 0.4226 0	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5 tCode: El RunNo: 8 SeqNo: 2 %REC 87.6 90.6	889439 LowLimit 80 80 80 80 70 PA Method 1727 889440 LowLimit 80 80	HighLimit 120 120 120 120 120 130 8021B: Volati Units: µg/L HighLimit 120 120 120 130	iles %RPD 7.87 6.54	RPDLimit 20 20					
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 2109E93-001AMSI Client ID: TMW 01 Prep Date: Analyte Benzene Toluene Ethylbenzene	Analysis D <u>Result</u> 19 19 20 60 17 <b>D</b> SampT Batch Analysis D <u>Result</u> 18 18 19	Date: 9/ PQL 1.0 1.0 2.0 Type: MS output State: 9/ PQL 1.0 1.0 1.0 1.0 1.0 1.0	30/2021 SPK value 20.00 20.00 20.00 20.00 30/2020 30/2021 SPK value 20.00 20.00 20.00 20.00	SPK Ref Val 0.4226 0 0.2306 0 Tes F SPK Ref Val 0.4226 0 0.2306	SeqNo: 2 %REC 95.0 96.8 99.6 101 85.5 tCode: El &unNo: 8 SeqNo: 2 %REC 87.6 90.6 92.5	889439 LowLimit 80 80 80 80 70 PA Method 1727 889440 LowLimit 80 80 80 80	HighLimit 120 120 120 120 120 130 8021B: Volati Units: µg/L HighLimit 120 120 120 120	%RPD 7.87 6.54 7.23	RPDLimit 20 20 20					

#### Qualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 4

#### WO#: 2109E93

06-Oct-21

Received by	OCD:	3/22/2022	9:59:17 AM
-------------	------	-----------	------------

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	ental Analysis Labora 4901 Hawkin: Albuquerque, NM 83 -3975 FAX: 505-345-4 nts.hallenvironmental.	s NE 7109 <b>Sam</b> 4107	nple Log-In Cl	heck List
Client Name: Harvest	Work Order Nu	mber: 2109E93		RcptNo:	1
Received By: Tracy Casarrubias	9/25/2021 8:48:00	DAM			
Completed By: Juan Rojas	9/25/2021 10:56:2	23 AM	4 uan Eng		
Reviewed By: In 9/29/21					
<u>Chain of Custody</u>					
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 🗌		
4. Were all samples received at a temperature	of >0° 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 broker	1?	Yes	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH:	12 unless noted)
2. Are matrices correctly identified on Chain of C	Custody?	Yes 🔽	No 🗌	Adjusted?	,
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 🗌	Checked by:	15-9-29-21
Special Handling (if applicable)				¥7.	
15. Was client notified of all discrepancies with t	nis order?	Yes	No 🗌	NA 🗸	
Person Notified:	Dat	e			
By Whom:	Via	eMail P	hone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u>					

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good				
2	8.4	Good				

Page 1 of 1

(	Chain	-of-Ci	ustody Record	Turn-Aroun						-						-		_			erve
Client	Harve	st Mid	.stream , ideal@harrestmidstream	Standar	d 🗆 Rush	94a-		AND A												TAL	
Hn.	Jenn: Fe	r Deal	ideal @ havest nidstream	Project Nam	ne: Lateral	1+-21	1 6											K/	410	DR'	T C
Mailing	g Address	3:			041014			40	041							tal.co					): 3/
				Project #: 1	E 09032100	9	1			lawk											2212
Phone	#: 502	5 - 320	1-5128	1 '					el. 5	05-34	+5-3	COLUMN TWO IS NOT	A REAL PROPERTY AND	and the second second	-	-345 uesí	_	/	Sec. 1		270
	or Fax#:			Project Man	ager: Danny I	Burns/Brould Herb	+						A DECK NOT								203
QA/QC	Package:					surns/Briville (terb	TMB's (8021).	MRG	B's		۱S	-	4, SO <sub>4</sub>			(Present/Absent)					11.
□ Sta	ndard		□ Level 4 (Full Validation)		. Herb Qw		3) \$1	0	PCB's		OSIN		PO <sub>4</sub> ,			t/At					AM
	ditation:		ompliance		Reece Hanson	1	]∄	/ DR	082	<del>,</del>	827(		$NO_2$ ,			eser					
	LAC D (Type)	□ Other	r	On Ice: # of Coolers		🗆 No	11	RO	es/8	504	0 or	s	) <sub>3</sub> , N		(AO						
				Commentation of the local division of the lo		Remete (°C)	MTBE		ticid	thod	831	Meta	NO	(A)	ni-V	form					
							5	3015	Pes	(Me	by	A 8	Br,	NO	(Sei	Coli					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. 2109893	BTEX	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	CR	CI, F, Br, NO <sub>3</sub> , I	8260 (VOA)	8270 (Semi-VOA)	Total Coliform					
	1 1510	GW	TANOI	3 VOA	HCL	-001			~~~	_Ш		ĽĽ.	0	8	80	<u> </u>	-+				+
	1440		TAW 02			-002	+				$\rightarrow$	_						_		+	+
	1530		TMW 03			-003	+				-+					_	-+	_	$\rightarrow$		+
2	1415		TAWOL				+				-+							_		+	+-
	1550					-004	-				_		_		-		$\rightarrow$	_	$\rightarrow$		+
	1540		TAWOT			-005	+-			-		_	_					_	-+		+
	1229		TMW 08			-006	-			-+							_	_	_		╇
1	1130		TMW 09			-007	1										-	-	-		╞
	11170		TAWIO			-008			_			-		-+		-	-	_			╀
	/			)								-				-	$\rightarrow$	$\rightarrow$			╞
				/								$\rightarrow$		-		_				_	╞
0			(				_		-		_	~		-		-	$\rightarrow$	-	_		+
Date:	Time:	Relinquishe	ed by:	Received by: Via:		Date Time	Ren	narks	I s:						i		~	11			
1-24-21	1600		nsm	Comp 9.25.21 8:48			11	- 1	11	5	5	1	N. A.	fil	7	fu	A	er	Noti	le	
Date:	Time:	Relinquishe	ed by:	Received by:	Via:	Date Time		F	10	L			)	,	A	alyz	e al	1 50	and	Noti pler. pl21	rge o
			V				Cool	ler!	1.25	5.3 - .4 -	\$ = 5	5.3			g 1-1	1		4	1/28	121	c) g

and the second

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.



December 09, 2021

Brooke Herb Harvest 1755 Arroyo Dr. Bloomfield, NM 87413 TEL: (505) 632-4475 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

RE: Lateral H21

OrderNo.: 2111C17

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 9 sample(s) on 11/24/2021 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Xylenes, Total

Surr: Toluene-d8

Surr: 1,2-Dichloroethane-d4

Surr: Dibromofluoromethane

**Analytical Report** Lab Order 2111C17

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	/

Date Reported: 12/9/2021

11/30/2021 6:11:11 PM R83191

11/30/2021 6:11:11 PM R83191

11/30/2021 6:11:11 PM R83191

11/30/2021 6:11:11 PM R83191

CLIENT:	<b>JENT:</b> Harvest <b>Client Sample ID:</b> TMW01							
Project:	Lateral H21		Collection Date: 11/23/2021 10:53:00 AM					Λ
Lab ID:	2111C17-001	Matrix: GROU	JNDWA	Recei	ved Dat	t <b>e:</b> 11	/24/2021 7:43:00 AM	
Analyses	3	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA ME	THOD 8260: VOLATILES	S SHORT LIST					Analys	st: <b>JR</b>
Benzene	e	ND	2.0	D	µg/L	2	11/30/2021 6:11:11 PM	M R83191
Toluene		ND	2.0	D	µg/L	2	11/30/2021 6:11:11 PM	M R83191
Ethylber	nzene	ND	2.0	D	µg/L	2	11/30/2021 6:11:11 PM	M R83191

ND

101

96.1

98.0

3.0

70-130

70-130

70-130

D

D

D

D

µg/L

%Rec

%Rec

%Rec

2

2

2

2

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

Xylenes, Total

Surr: Toluene-d8

Surr: 1,2-Dichloroethane-d4

Surr: Dibromofluoromethane

**Analytical Report** Lab Order 2111C17

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	/

Date Reported: 12/9/2021

11/30/2021 6:39:40 PM R83191

CLIENT:	: Harvest		Client Sample ID: TMW02						
Project:	Lateral H21		Collection Date: 11/23/2021 12:48:00 PM						
Lab ID:	2111C17-002	Matrix: GROUND	Matrix: GROUNDWA Received Date: 11/24/2021 7:43:00 AM						
Analyses	5	Result	RL Q	ual Units	DF	Date Analyzed	Batch		
EPA ME	THOD 8260: VOLATILES	S SHORT LIST				Analys	st: <b>JR</b>		
Benzene	e	ND	1.0	µg/L	1	11/30/2021 6:39:40 PM	M R83191		
Toluene		ND	1.0	µg/L	1	11/30/2021 6:39:40 PM	M R83191		

ND

ND

103

98.1

97.0

µg/L

µg/L

%Rec

%Rec

%Rec

1

1

1

1

1

1.0

1.5

70-130

70-130

70-130

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 10

Xylenes, Total

Surr: Toluene-d8

Surr: 1,2-Dichloroethane-d4

Surr: Dibromofluoromethane

**Analytical Report** Lab Order 2111C17

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	/

Date Reported: 12/9/2021

11/30/2021 7:08:19 PM R83191

CLIENT	: Harvest		Client Sample ID: TMW03						
Project:	Lateral H21		Collection Date: 11/23/2021 12:26:00 PM						
Lab ID:	2111C17-003	Matrix: GROUND	Matrix: GROUNDWA Received Date: 11/24/2021 7:43:00 AM				1		
Analyses	5	Result	RL Qu	ual Units	DF	Date Analyzed	Batch		
EPA ME	THOD 8260: VOLATILES	SHORT LIST				Analy	st: <b>JR</b>		
Benzene	e	ND	1.0	µg/L	1	11/30/2021 7:08:19 P	M R83191		
Toluene		ND	1.0	µg/L	1	11/30/2021 7:08:19 P	M R83191		

ND

ND

104

97.0

98.4

1.0

1.5

70-130

70-130

70-130

µg/L

µg/L

%Rec

%Rec

%Rec

1

1

1

1

1

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 3 of 10

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111C17

Date Reported: 12/9/2021

FPA MF	THOD 8260: VOLATILES	SHORTLIST			Analy	/st: <b>JR</b>
Analyses	5	Result	RI	Qual Units	DF Date Analyzed	Batch
Lab ID:	2111C17-004	Matrix: GROUN	DWA	Received Dat	te: 11/24/2021 7:43:00 AN	M
Project:	Lateral H21			<b>Collection Dat</b>	te: 11/23/2021 1:49:00 PM	1
CLIENT	: Harvest		(	Client Sample I	<b>D:</b> TMW04	

Benzene	ND	1.0	µg/L	1	11/30/2021 7:37:00 PM	R83191
Toluene	ND	1.0	µg/L	1	11/30/2021 7:37:00 PM	R83191
Ethylbenzene	ND	1.0	µg/L	1	11/30/2021 7:37:00 PM	R83191
Xylenes, Total	ND	1.5	µg/L	1	11/30/2021 7:37:00 PM	R83191
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	11/30/2021 7:37:00 PM	R83191
Surr: Dibromofluoromethane	97.6	70-130	%Rec	1	11/30/2021 7:37:00 PM	R83191
Surr: Toluene-d8	99.0	70-130	%Rec	1	11/30/2021 7:37:00 PM	R83191

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р
- RL Reporting Limit

Page 4 of 10

Xylenes, Total

Surr: Toluene-d8

Surr: 1,2-Dichloroethane-d4

Surr: Dibromofluoromethane

**Analytical Report** Lab Order 2111C17

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	/

Date Reported: 12/9/2021

11/30/2021 8:05:41 PM R83191

CLIENT:	: Harvest		Client Sample ID: TMW06						
Project:	Lateral H21		Collection Date: 11/23/2021 11:18:00 AM           Matrix: GROUNDWA         Received Date: 11/24/2021 7:43:00 AM				M		
Lab ID:	2111C17-005	Matrix: GROUNE							
Analyses	3	Result	RL Qu	al Units	DF	Date Analyzed	Batch		
EPA ME	THOD 8260: VOLATILES	SHORT LIST				Analys	st: <b>JR</b>		
Benzene	e	ND	1.0	µg/L	1	11/30/2021 8:05:41 PI	M R83191		
Toluene		ND	1.0	µg/L	1	11/30/2021 8:05:41 PI	M R83191		

ND

ND

109

100

97.3

µg/L

µg/L

%Rec

%Rec

%Rec

1.0

1.5

70-130

70-130

70-130

1

1

1

1

1

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 10

**Analytical Report** Lab Order 2111C17

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	

Date Reported: 12/9/2021

CLIENT:	Harvest		Client Sample ID: TMW07					
Project:	Lateral H21		Coll	ection Dat	te: 11/23/2021 1:28:00 PM			
Lab ID:	2111C17-006	Matrix: GROUNI	OWA Re	ceived Dat	te: 11/24/2021 7:43:00 AN	ĺ		
Analyses		Result	RL Qu	al Units	DF Date Analyzed	Batch		
	THOD 8260: VOLATILES	SHORT LIST			Analy	st: <b>JR</b>		
Dentene			10		1 11/20/2021 0.24.22 D			

Benzene	ND	1.0	µg/L	1	11/30/2021 8:34:23 PM R83191	
Toluene	ND	1.0	µg/L	1	11/30/2021 8:34:23 PM R83191	
Ethylbenzene	ND	1.0	µg/L	1	11/30/2021 8:34:23 PM R83191	
Xylenes, Total	ND	1.5	µg/L	1	11/30/2021 8:34:23 PM R83191	
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	11/30/2021 8:34:23 PM R83191	
Surr: Dibromofluoromethane	96.4	70-130	%Rec	1	11/30/2021 8:34:23 PM R83191	
Surr: Toluene-d8	96.4	70-130	%Rec	1	11/30/2021 8:34:23 PM R83191	

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

Page 6 of 10

**Analytical Report** Lab Order 2111C17

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	

Date Reported: 12/9/2021

CLIENT:	Harvest		Client Sample ID: TMW08									
Project:	Lateral H21		Coll	ection Dat	te: 11/23/2021 1:09:00 PM							
Lab ID:	2111C17-007	Matrix: GROUND	WA Re	ceived Dat	te: 11/24/2021 7:43:00 AM							
Analyses		Result	RL Qu	al Units	DF Date Analyzed	Batch						
EPA MET	HOD 8260: VOLATILES S	HORT LIST			Analys	st: JR						
			4.0		4 44/20/2024 0:02:50 P							

Benzene	ND	1.0	µg/L	1	11/30/2021 9:02:59 PM	R83191
Toluene	ND	1.0	µg/L	1	11/30/2021 9:02:59 PM	R83191
Ethylbenzene	ND	1.0	µg/L	1	11/30/2021 9:02:59 PM	R83191
Xylenes, Total	ND	1.5	µg/L	1	11/30/2021 9:02:59 PM	R83191
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	11/30/2021 9:02:59 PM	R83191
Surr: Dibromofluoromethane	93.6	70-130	%Rec	1	11/30/2021 9:02:59 PM	R83191
Surr: Toluene-d8	98.0	70-130	%Rec	1	11/30/2021 9:02:59 PM	R83191

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 10

Xylenes, Total

Surr: Toluene-d8

Surr: 1,2-Dichloroethane-d4

Surr: Dibromofluoromethane

**Analytical Report** Lab Order 2111C17

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	/

Date Reported: 12/9/2021

11/30/2021 9:31:36 PM R83191

CLIENT:	: Harvest		Client Sample ID: TMW09								
Project:	Lateral H21		Collection Date: 11/23/2021 2:10:00 PM								
Lab ID:	2111C17-008	Matrix: GROUNI	Matrix:         GROUNDWA         Received Date: 11/24/2021 7:43:00 AM								
Analyses	3	Result	RL Qu	ual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 8260: VOLATILES	SHORT LIST				Analys	t: JR				
Benzene	e	ND	1.0	µg/L	1	11/30/2021 9:31:36 PN	I R83191				
Toluene		ND	1.0	µg/L	1	11/30/2021 9:31:36 PM	/ R83191				

ND

ND

105

100

98.6

µg/L

µg/L

%Rec

%Rec

%Rec

1

1

1

1

1

1.0

1.5

70-130

70-130

70-130

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 10

Surr: 1,2-Dichloroethane-d4

Surr: Dibromofluoromethane

Surr: Toluene-d8

**Analytical Report** Lab Order 2111C17

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	/

Date Reported: 12/9/2021

11/30/2021 10:00:14 PM R83191

11/30/2021 10:00:14 PM R83191

11/30/2021 10:00:14 PM R83191

CLIENT:	Harvest	Client Sample ID: TMW10									
Project:	Lateral H21	Collection Date: 11/23/2021 12:04:00 PM									
Lab ID:	2111C17-009	Matrix: GROUND	WA Re	ceived Dat	e: 11	/24/2021 7:43:00 AN	Л				
Analyses		Result	RL Qu	al Units	DF	Date Analyzed	Batch				
EPA MET	HOD 8260: VOLATILES SHORT	LIST				Analy	inti ID				
						- ,	SI. JR				
Benzene		ND	1.0	µg/L	1	11/30/2021 10:00:14					
Benzene Toluene		ND ND	1.0 1.0	μg/L μg/L	1 1	,	PM R83191				
					1 1 1	11/30/2021 10:00:14	PM R83191 PM R83191				

100

97.6

98.3

70-130

70-130

70-130

%Rec

%Rec

%Rec

1

1

1

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 10

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

Client:HarvestProject:Lateral H21

			•	-				<b>0</b> 1 (1	• •	
Sample ID: 100ng Ics	Sampl	Гуре: <b>LC</b>	S	les	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW	Batc	h ID: <b>R8</b>	3191	R	RunNo: 8	3191				
Prep Date:	Analysis E	Date: 11	/30/2021	S	SeqNo: 2	955404	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		99.8	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.1	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			
		_		_	- ·					
Sample ID: <b>mb</b>	Sampl	Type: ME	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Sample ID: <b>mb</b> Client ID: <b>PBW</b>		Fype: <b>ME</b> h ID: <b>R8</b>			tCode: El RunNo: 8		8260: Volatile	es Short L	ist	
		h ID: R8	3191	R		3191	8260: Volatile Units: μg/L	es Short L	ist	
Client ID: PBW	Batc	h ID: R8	3191 /30/2021	R	RunNo: 8	3191		es Short L %RPD	<b>.ist</b> RPDLimit	Qual
Client ID: <b>PBW</b> Prep Date:	Batcl Analysis [	h ID: <b>R8</b> Date: <b>11</b>	3191 /30/2021	R	RunNo: <b>8</b> SeqNo: <b>2</b>	3191 955405	Units: µg/L			Qual
Client ID: <b>PBW</b> Prep Date: Analyte	Batc Analysis I Result	h ID: <b>R8</b> Date: <b>11</b> PQL	3191 /30/2021	R	RunNo: <b>8</b> SeqNo: <b>2</b>	3191 955405	Units: µg/L			Qual
Client ID: <b>PBW</b> Prep Date: Analyte Benzene	Batc Analysis I Result ND	h ID: <b>R8</b> Date: <b>11</b> <u>PQL</u> 1.0	3191 /30/2021	R	RunNo: <b>8</b> SeqNo: <b>2</b>	3191 955405	Units: µg/L			Qual
Client ID: <b>PBW</b> Prep Date: Analyte Benzene Toluene	Batch Analysis E Result ND ND	h ID: <b>R8</b> Date: <b>11</b> <u>PQL</u> 1.0 1.0	3191 /30/2021	R	RunNo: <b>8</b> SeqNo: <b>2</b>	3191 955405	Units: µg/L			Qual
Client ID: <b>PBW</b> Prep Date: Analyte Benzene Toluene Ethylbenzene	Batch Analysis E Result ND ND ND	h ID: <b>R8</b> Date: <b>11</b> <u>PQL</u> 1.0 1.0 1.0	3191 /30/2021	R	RunNo: <b>8</b> SeqNo: <b>2</b>	3191 955405	Units: µg/L			Qual
Client ID: <b>PBW</b> Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batc Analysis I Result ND ND ND ND	h ID: <b>R8</b> Date: <b>11</b> <u>PQL</u> 1.0 1.0 1.0	3191 /30/2021 SPK value	R	RunNo: <b>8</b> SeqNo: <b>2</b> %REC	3191 955405 LowLimit	Units: <b>µg/L</b> HighLimit			Qual
Client ID: <b>PBW</b> Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Batc Analysis I Result ND ND ND ND 11	h ID: <b>R8</b> Date: <b>11</b> <u>PQL</u> 1.0 1.0 1.0	3191 /30/2021 SPK value 10.00	R	RunNo: <b>8</b> SeqNo: <b>2</b> %REC 105	3191 955405 LowLimit 70	Units: µg/L HighLimit 130			Qual

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

Page 10 of 10

WO#: 2111C17

09-Dec-21

Client Name:       Harvest       Work Order Number:       2111C17       RcptNo:       1         Received By:       Cheyenne Cason       11/24/2021 7:43:00 AM       Used         Completed By:       Isaiah Ortiz       11/24/2021 9:33:41 AM       Image: Completed By:       Science Cason       Science	<i>CD: 3/22/2022 9:59:17 AM</i> Hall Environmental Analysis Laboratory	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com			7E 09 <b>(</b> 07	San	Page 4
Reviewed By: Set 11/24/21         Chain of Custody         1. is Chain of Custody complete?       Yes         2. How was the sample delivered?         Loa In         3. Was an attempt made to cool the samples?       Yes         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes         5. Sample(s) in proper container(s)?       Yes         7. Are samples (except VOA and ONG) properly preserved?       Yes         8. Was preservative added to bottles?       Yes         9. Received at least 1 vial with headspace <1/4" for AQ VOA?       Yes         10. Were any sample containers received broken?       Yes         11. Does paperwork match bottle labels?       Yes       No         12. Are matrices correctly identified on Chain of Custody?       Yes       No         12. Are matrices correctly identified on the in of Custody?       Yes       No         12. Are matrices correctly identified on the in of Custody?       Yes       No       Na         13. Is it clear what analyses were requested?       Yes       No       NA       Yes         15. Was client notified of all discrepancies with this order?       Yes       No       NA       Yes         15. Was client notified of all discrepancies with this order?       Yes       No       NA       Yes	lame: Harvest	Work Order Numb	ber: 2111	IC17			RcptNo: 1
Reviewed By: 5&C 11/24/24         Chain of Custody         1. is Chain of Custody complete?       Yes       No       Not Present         2. How was the sample delivered?       Counter         Loa In	d By: Cheyenne Cason	11/24/2021 7:43:00	AM	i i	June	1	
Reviewed By: Set 11/24/21         Chain of Custody         1. is Chain of Custody complete?       Yes         2. How was the sample delivered?         Loa In         3. Was an attempt made to cool the samples?       Yes         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes         5. Sample(s) in proper container(s)?       Yes         7. Are samples (except VOA and ONG) properly preserved?       Yes         8. Was preservative added to bottles?       Yes         9. Received at least 1 vial with headspace <1/4" for AQ VOA?	ed By: Isaiah Ortiz	11/24/2021 9:33:41	AM		I.	_C	2-2
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° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       NA         6. Sufficient sample volume for indicated test(s)?       Yes       No       NA         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?	d By: SEC IIZUZI						
2. How was the sample delivered?       Courier         Loa In	of Custody						
Log In         3. Was an attempt made to cool the samples?       Yes       No       NA         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       NA         6. Sufficient sample volume for indicated test(s)?       Yes       No       NA         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?	ain of Custody complete?		Yes	$\checkmark$	No		Not Present
3. Was an attempt made to cool the samples?       Yes       No       NA         4. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       NA         6. Sufficient sample volume for indicated test(s)?       Yes       No       NA         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         8. Was preservative added to bottles?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?	was the sample delivered?		Cour	ier			
4. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) in proper container(s)?       Yes       No       No         6. Sufficient sample volume for indicated test(s)?       Yes       No       No         7. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         8. Was preservative added to bottles?       Yes       No       NA         9. Received at least 1 vial with headspace <1/4" for AQ VOA?							
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   9. Received at least 1 vial with headspace <1/4" for AQ VOA?	an attempt made to cool the samples?		Yes	$\checkmark$	No		NA 🗌
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   9. Received at least 1 vial with headspace <1/4" for AQ VOA?	all samples received at a temperature o	f >0° C to 6.0°C	Yes	$\checkmark$	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?	le(s) in proper container(s)?		Yes	$\checkmark$	No		
8. Was preservative added to bottles? Yes No NA   9. Received at least 1 vial with headspace <1/4" for AQ VOA?	ent sample volume for indicated test(s)?		Yes	✓	No		
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	mples (except VOA and ONG) properly	preserved?	Yes	$\checkmark$	No		
10. Were any sample containers received broken?       Yes       No	reservative added to bottles?		Yes		No	$\checkmark$	NA 🗌
11. Does paperwork match bottle labels?       Yes       No       # of preserved bottles checked for pH:         (Note discrepancies on chain of custody)       Yes       No       Adjusted?         12. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         13. Is it clear what analyses were requested?       Yes       No       Adjusted?         14. Were all holding times able to be met?       Yes       No       Checked by:       JM W244         Special Handling (if applicable)       15. Was client notified of all discrepancies with this order?       Yes       No       NA       Image: State in the state in th	ved at least 1 vial with headspace <1/4"	for AQ VOA?	Yes		No		NA 🗹
11. Does paperwork match bottle labels?       Yes       ✓       No       bottles checked         (Note discrepancies on chain of custody)       Yes       ✓       No       identified on Chain of Custody?         12. Are matrices correctly identified on Chain of Custody?       Yes       ✓       No       Adjusted?         13. Is it clear what analyses were requested?       Yes       ✓       No       Checked by:       J/L // 2//         14. Were all holding times able to be met?       Yes       ✓       No       Checked by:       J/L // 2//         15. Was client notified of all discrepancies with this order?       Yes       No       NA       ✓         Person Notified:	any sample containers received broken	?	Yes		No		# of preserved
12. Are matrices correctly identified on Chain of Custody? Yes ✓ No Adjusted?   13. Is it clear what analyses were requested? Yes ✓ No Adjusted?   14. Were all holding times able to be met? Yes ✓ No Checked by: JK W 2 W   14. Were all holding times able to be met? Yes ✓ No Checked by: JK W 2 W   14. Were all holding times able to be met? Yes ✓ No Checked by: JK W 2 W   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:			Yes	$\checkmark$	No		bottles checked for pH:
14. Were all holding times able to be met? (If no, notify customer for authorization.)       Yes       No       Checked by: JM u 2u         Special Handling (if applicable)         15. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date:	atrices correctly identified on Chain of C	ustody?	Yes	$\checkmark$	No		Adjusted?
(If no, notify customer for authorization.)         Special Handling (if applicable)         15. Was client notified of all discrepancies with this order?       Yes       No       NA         Person Notified:       Date:			Yes	$\checkmark$	No		
15. Was client notified of all discrepancies with this order?       Yes       No       NA       ✓         Person Notified:       Date:       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓	-		Yes		No		Checked by: JR u 24 2
Person Notified:     Date:       By Whom:     Via:       Regarding:       Client Instructions:	Handling (if applicable)					-	
By Whom: Via: Oraci Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks:	client notified of all discrepancies with th	is order?	Yes		No		NA 🗹
By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks:	Person Notified:	Date:	[			anatomaar.	
Regarding:	By Whom:	Via:	eMa	il 🔲 Phor	ne 🗌	Fax	In Person
	A construction of the second structure and						
17. <u>Cooler Information</u>	ional remarks:						the first of the second s
Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By		I Intact Seal No	Seal Da	te Sio	aned P	3v	

.

Page 1 of 1

f 49																				
48 of 49	Chain-	of-Cu	ustody Record	Turn-Around	Time:								-							
Slient:	1-kar	Jest	Midstream	Standard	□ Rush							9	EN' YSI							
			Smith	Project Nam					a k											
Mailing	Address		5 Arroy & Pr	Lat	eral 1-	121		10				4	enviro							
			field NM	Project #:			1						Albuq	10						
Phone	#·	ULPON	FICTOR JOIN	TE090321009				IE	91. 50	5-34	5-39	and the second	⊦ax alysi		COLUMN AND A	5-410	1		alia nya	
		nsmith	n & harvest mid Streem.com													and the second			10000	
	Package:	- <i>J</i> P (4			iger.		924)	<b>IRO</b>	S		S		, SO4		sent					
Star			□ Level 4 (Full Validation)	Br	ooke it	erb	s (8	DRO / MRO)	PCB's		SIN		PO4,		t/Ab					
Accred	itation:	□ Az Co	ompliance	Sampler:	Josh A		/ MTBE / TMB'S (8024)	DR	082	<del>,</del>	8270SIMS		NO <sub>2</sub> ,		Total Coliform (Present/Absent)					
		□ Other		On Ice:	Yes	□ No	P	RO	ss/8	20	5	s	3,	AC AC	( Br					
E EDE	) (Type) _	PDF		# of Coolers:	The second second second second	1 2 2 1 (80)		D)	icide	por	310	letal		,   )   -						
				Cooler Temp		{-0=0.4 (°C)	P	0151	Pest	Meth	by 8	8 ≥	ъ́	Sen	Colif					
				Container	Preservative		BTEX	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO <sub>3</sub> , 8260 (VOA)	8270 (Semi-VOA)	otal (					
Date		Matrix	Sample Name		Туре	2111017		<u><u> </u></u>	8	Ш		Ж I	<u>5 8</u>		μř			+	_	
11-23-21	1053	GW	Thwoi	(3)vo $A$	HCL	001	X							_				$\perp$		$ \rightarrow                                   $
	1248		TMWOZ	(3) VOA	Haciz	500	$\times$													
	1226		TMW03		HACK	003	$\mathbf{x}$													
	1349		TMWOY			004	¥													
	1118		2= FALLOS TAWOG			005	$\boldsymbol{\chi}$													
	1328		2 Frover thuoz			006	+													
	1309		TMW08			007	×													
AM	1410		TMWOQ			008	R													$\square$
1.6	1204	J	TMWID	· · ·	~	009	X													$\square$
2 9:3							)													
202		1															-	+		
3/22)			0								-							+		+
Date:		Relinquishe	ed by:	Received by:	Via	Date Time	Rem	narks	:		i				4	$\sim$				
0 .	1338	- /le	Cours	/c/A	Wab	1/23/21 1338			20		br	001	Ke.	he	B	Ì	è c	P.9	ow	
Eate:	Time:	Relinquishe	ed by:	Received by:	Via:	Date / Time					0	sh	CR4	dae	ms	C	us	p.c	$O^n$	7
23/21	1338 Martin Martin Martin Martin Martin 1/23/21/338 (C: brooke herde wsp. com 1321/1746 Muth Math Come Course 11/24/4 0743 (C: brooke herde wsp. com																			
Re	If necessary,	samples sub	mitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratorie	es. This serves as notice of this	possit	oility. A	Any su	b-contra	acted o	data wi	Il be clea	arly no	tated or	n the ar	nalytica	I report		

.

-

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

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

District III

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

District IV

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

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

CONDITIONS

Action 91990

CONDIT	IONS
Operator:	OGRID:
Harvest Four Corners, LLC	373888
1111 Travis Street	Action Number:
Houston, TX 77002	91990
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

## CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of the 2021 Annual Groundwater Report: Content satisfactory 1. Continue quarterly groundwater sampling for monitoring wells TMW01, TMW02, TMW03, TMW04, TMW06, TMW07, TMW08, TMW09, and TMW10. 2. Continue quarterly groundwater monitoring until eight consecutive quarters of compliance with NMWQCC standards is achieved in lieu of submitting a Stage 2 Abatement Plan 3. If contaminant concentrations rebound and exceed NMWQCC standards, a Stage 2 Abatement Plan per NMAC 19.15.30 remediation alternative must be completed 4. Submit the Annual Monitoring Report to the OCD no later than March 31, 2023.	11/28/2022