

January 3, 2022

Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos
Aztec, New Mexico 87410

Submitted via NMOCD Online Portal

RE: Q4 2021 Periodic Progress Report
Trunk S Release (October-December 2021)
3RP-1014; Incident #NCS1931842879
Unit I, Section 7, T25N, R3W
Rio Arriba County, New Mexico

Dear Mr. Smith:

Animas Environmental Services, LLC (AES) has prepared this Q4 2021 Periodic Progress Report for a release which was discovered June 25, 2019, at the Harvest Four Corners (Harvest) Trunk S natural gas pipeline, located in Rio Arriba County, New Mexico. A topographic site location map is included as Figure 1, and an aerial site map is presented on Figure 2. This report covers site activities from October to December 2021.

1.0 Soil Vapor Extraction (SVE) System

Harvest Midstream purchased a Varisolar Soil Vapor Extraction (SVE) system in late 2019. The SVE system is constructed of 2-inch Schedule 40 PVC above-ground conveyance pipe and fittings. Rotometers are installed on each leg of the manifold to accompany dedicated vacuum gauges and sample ports. A combined vapor stream sample port is located between the influent vapor manifold and the moisture separator, upstream of the blower. Additionally, a sample port was installed on the exhaust stack, downstream of the two granular carbon vessels to facilitate monitoring of emissions concentrations. Full time system operation began on July 16, 2020.

Cory Smith NMOCD Harvest Trunk S Release (3RP-1014; Incident #1931842879) January 3, 2022; Page 2 of 5

2.0 SVE System Operations and Maintenance (O&M) – 4th Quarter 2021

2.1 SVE O&M

Monthly operations and maintenance (O&M) visits were conducted by AES on:

- October 20, 2021
- November 30, 2021
- December 14, 2021

During each visit, AES personnel collected system flow, vacuum, and vapor data and monitored granular activated carbon (GAC) efficiency. A sample of each vapor stream was collected in a Tedlar bag using a small vacuum pump. Influent and effluent vapor concentrations were measured using a calibrated Mini Rae 3000 organic vapor meter (OVM). Field measurements were recorded onto field SVE data sheets and are recorded in Table 1, along with telemetry data.

Additionally, samples of the influent vapor stream were collected on December 14, 2021, for laboratory analysis. Two 1-liter Tedlar bags were collected for analysis for volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (USEPA) Method 8260B (full list), gasoline-range organics (GRO) by EPA Method 8015, and oxygen and carbon dioxide by Gas Processors Association (GPA) Method 2261.

Other maintenance activities included the following:

- At the October 20 and November 30, 2021, site visits, AES took OVM measurements from all five SVE zones. OVM readings from Zones 4 and 5 were less than 100 parts per million (ppm), indicating that VOC concentrations have not yet rebounded in those two zones. Therefore, Zones 4 and 5 remained shut off to pulse remediation operations and to increase the vacuum in the remaining zones. Zones 1, 2, and 3 remained under an applied vacuum.
- On November 18, 2021, AES restored telemetry data collection from the VariSolar unit.
- At the December 14, 2021 site visit, cracks were observed in the PVC T-fittings for the pressure gauges for Zones 3 and 4. Air could be heard moving through the cracks. These damaged components likely contributed to the lower vacuum readings that were recorded in late November and early December. The cracks were temporarily patched and repairs are scheduled for the next site visit in January 2022.
- No GAC changeouts were required this quarter.

Cory Smith NMOCD Harvest Trunk S Release (3RP-1014; Incident #1931842879) January 3, 2022; Page 3 of 5

2.2 Laboratory Analytical Results

Laboratory analytical results show that SVE influent in December 2021 included:

- 13,000 micrograms per liter (μg/L) of total petroleum hydrocarbons (TPH)-GRO;
- 22 μg/L benzene;
- 140 μg/L toluene;
- 10 μg/L ethylbenzene;
- 170 μg/L xylenes;
- 21.828% oxygen;
- 77.678% nitrogen; and
- 0.404% carbon dioxide.

GRO concentrations in SVE influent flow rebounded from September 2021 to December 2021. This concentration increase is likely due to closing off of Zones 4 and 5, which was intended to increase the draw from the more heavily impacted Zones 1, 2, and 3. Overall, GRO concentrations have decreased by 93.5% and combined benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations have decreased by 91% since the system began operations in July 2020. Additionally, carbon dioxide concentrations are also decreasing over time, indicating the movement of air into the subsurface area of contamination, which is typically characterized by low oxygen and elevated carbon dioxide. Laboratory analytical data are included in Table 1, and the laboratory analytical report is attached.

3.0 Operational Data and Petroleum Mass Removal – 4th Quarter 2021

An SVE operations summary through December 14, 2021, is presented below:

Trunk S Solar SVE System Operations Summary							
Total SVE system operating hours since system startup (hrs)	6,312						
Most recent event SVE system influent PID- OVM reading (ppm)	1,570						
Most recent event Inlet Vacuum (inH2o)	-8						
Most recent event Actual Flow Rate (acfm)	54						
Total cumulative standard volume processed since system startup (ft³)	31,400,485						

Cory Smith NMOCD Harvest Trunk S Release (3RP-1014; Incident #1931842879) January 3, 2022; Page 4 of 5

Trunk S Solar SVE System Operations Summai	ry
Total estimated petroleum mass removal since system startup (lbs)	81,721
Estimated lbs removed/std ft³ for current reporting period (lbs/std ft³)	0.0008

System operating parameters and corrected mass removal estimates are detailed in Table 2, and Graph 1 shows remediation progress through December 14, 2021.

4.0 Ongoing SVE System Monitoring and Sampling

Harvest and AES will continue to maintain SVE runtime greater than or equal to 90 percent per quarter based on available sunlight hours. One soil gas sample per quarter will be collected and analyzed for:

- TPH-GRO per EPA Method 8015;
- Volatile organics per EPA Method 8260 (full list); and
- Carbon dioxide and oxygen per GPA 2261.

Harvest and AES will submit a quarterly progress report detailing remediation operations to NMOCD. The report will include at a minimum:

- Summary of remediation activity for the quarter;
- SVE run time, SVE operating parameters, and petroleum hydrocarbon mass removal;
- Gas sample analytical data; and
- Documentation of replacement of GAC canisters.

Cory Smith NMOCD Harvest Trunk S Release (3RP-1014; Incident #1931842879) January 3, 2022; Page 5 of 5

6.0 Schedule

AES will continue to conduct monthly O&M visits, quarterly vapor field and laboratory analytical sampling, and monitoring and replacing GAC drums as needed. The cracked fittings that were discovered during the December 14, 2021, site visit will be replaced as part of the January 2022 site visit.

If you have any questions about site conditions, SVE operations, or this report, please do not hesitate to contact Angela Ledgerwood at (720) 537-6650 or Elizabeth McNally at (505) 564-2281.

Sincerely,

Angela Ledgerwood

Senior Project Manager

Clipshith & Mindly Elizabeth McNally, P.E.

Principal

Attachments:

Table 1. SVE Vapor Laboratory Analytical Results

Table 2. SVE Field Operating Parameters and Mass Removal

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map with SVE Unit and SVE Well Layout

Graph 1. Estimated Remedial Progress – Mass Removal over Time

Laboratory Analytical Reports -

December 14, 2021 Vapor Sampling (Hall No. 2112971)

Cc: Monica Smith

Harvest Midstream Company

Electronic Mail: msmith@harvestmidstream.com

Shared Documents/Trunk S Release/Reports and Workplans/2021.12.24 Trunk S Periodic Progress Report 4th Qtr 2021 DR EM.doc

TABLE 1 SVE VAPOR LABORATORY ANALYTICAL RESULTS Harvest Trunk S

Release 3RP-1014, Incident #NCS1931842879

Date	Benzene	Toluene	Ethyl- benzene	Totals Xylenes	GRO	0 2	CO 2
	μg/L	μg/L	μg/L	μg/L	μg/L	Mol %	Mol %
16-Jul-20	1,700	1,570	29.4	517.9	NS	20.2	0.671
3-Sep-20	45	220	22	230	NS	NS	NS
30-Sep-20	49	480	86	770	NS	NS	NS
14-Oct-20	150	460	15	270	68,000	20.939	0.928
8-Jan-21	76	310	9.1	150	38,000	20.810	0.880
9-Apr-21	50	160	8.2	140	30,000	21.541	0.485
12-Jul-21	33	150	12	210	19,000	21.465	0.491
29-Sep-21	15	77	5.3	85	6,500	21.567	0.536
14-Dec-21	22	140	10	170	13,000	21.828	0.404

Notes:

Benzene, toluene, ethylbenzene, and total xylenes analyzed via USEPA Method 8260B.

GRO analyzed via USEPA Method 8015D.

O₂ and CO₂ analyzed via GPA Method 2261.

CO₂ Carbon dioxide

GRO Total petroleum hydrocarbons, gasoline-range organics (C6-C10)

μg/L Micrograms per liter

Mole percent

NS Not Sampled

O₂ Oxygen

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TABLE 2 SVE FIELD OPERATING PARAMETERS and MASS REMOVAL Harvest Trunk S Release 3RP-1014, Incident #NCS1931842879

Date	Operating Days	Telemetry Operating Hours Reading	Field PID- OVM (ppmv)	Telemetry Inlet Vacuum (in. H ₂ O)	Calculated Inlet Vacuum (in. Hg)	Field Inlet Temp. (°F)	Field Outlet Temp. (°F)	Telemetry Actual Flow Rate (acfm)	Telemetry Converted to Standard Flow Rate (scfm)	Total Standard Volume (ft ³)	VOCs (GRO) (ug/L)	VOCs (GRO) Removed (lbs/ Δt)	lbs removed/ std ft ³
16-Jul-20	0	322	4,268	-12	-0.883	NM	NM	120	88		200,000		
3-Sep-20	49	963	1,100	-16	-1.177	NM	NM	119	86	3,346,020	54,357	13,247	0.0040
30-Sep-20	76	1,298	1,200	-16	-1.177	NM	153	120	87	1,738,650	59,000	6,135	0.0035
14-Oct-20	90	1,450	1,357	-20	-1.471	NM	NM	122	86	788,880	68,000	3,119	0.0040
23-Nov-20	130	1,847	2,033	-17	-1.250	54	62	124	92	2,119,980	NM		
8-Jan-21	176	2,275	786	-28	-2.060	50	60	131	94	2,388,240	38,000	20,209	0.0045
5-Feb-21	204	2,543	763	-20	-1.471	36	44	129	96	1,527,600	NM		
10-Mar-21	237	2,891	433	-20	-1.471	50	58	128	93	1,973,160	NM		
9-Apr-21	267	3,246	898	-17	-1.250	62	78	124	92	1,970,250	30,000	16,691	0.0031
16-Apr-21	274	3,334	NM	-21	-1.545	NM	NM	123	90	480,480	NM		
17-Jun-21	336	4,182	772	-19	-1.398	94	100	124	84	4,425,412	NM		
12-Jul-21	361	4,535	859	-19	-1.398	86	94	124	85	1,790,116	19,000	14,174	0.0021
12-Aug-21	392	4,958	355	-19	-1.398	76	94	124	86	2,169,580	NM		
9-Sep-21	420	5,314	351	-19	-1.398	85	102	124	85	1,826,229	NM		
29-Sep-21	440	5,550	561	-19	-1.398	50	53	124	92	1,256,771	6,500	5,232	0.0010
20-Oct-21	461	5,783	563	-19	-1.398	55	55	124	91	1,278,072	NM		
18-Nov-21	490	6,080	NM	-21	-1.545	NM	NM	106	80	1,522,687	NM		
30-Nov-21	502	6,182	1,570	-13	-0.956	58	70	76	56	416,160	NM		
14-Dec-21	516	6,312	NM	-8	-0.588	NM	NM	54	42	382,200	13,000	2,913	0.0008
									Cumulative Flow	31,400,485		81,721	

Notes:

1. PID - photoionization detector; OVM - organic vapor meter

2. ppmv - parts per million by volume (v/v; equivalent to mL/L or mL/m³)

3. acfm - measured cubic feet per minute (volumetric flow, calculated based on flow velocity and pipe diameter)

Q4 2021 Periodic Progress Report January 3, 2022

total lbs

removed

TABLE 2

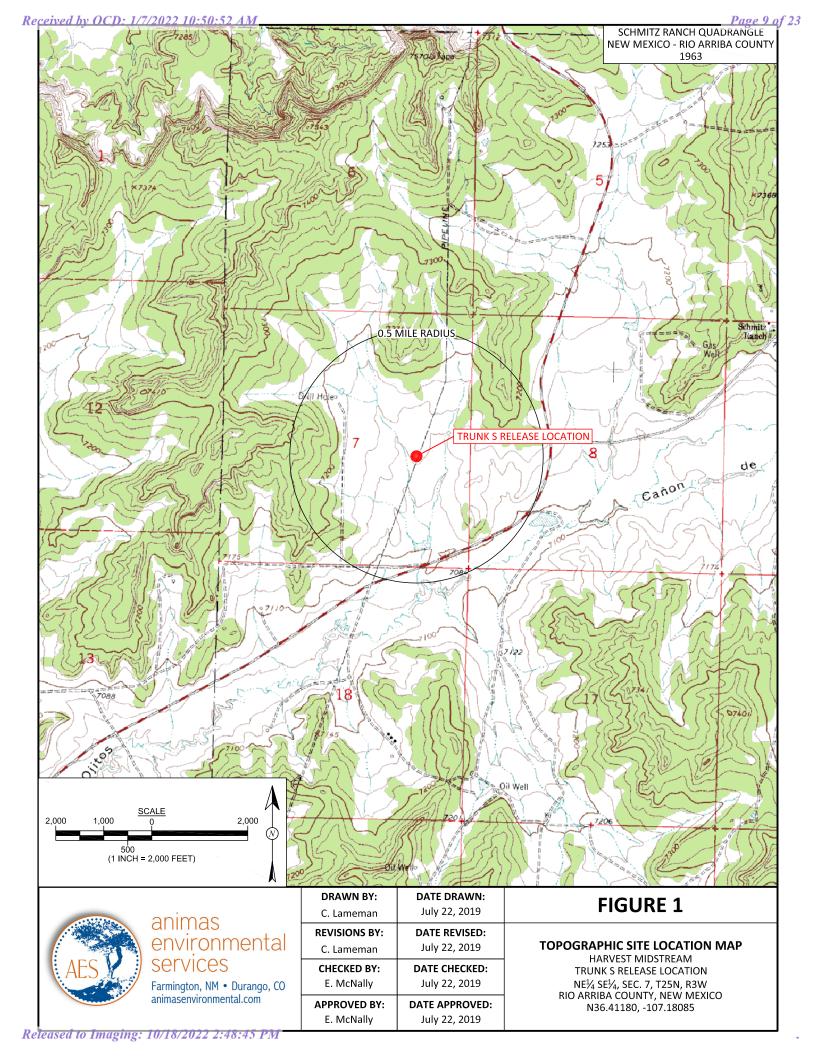
SVE FIELD OPERATING PARAMETERS and MASS REMOVAL

Harvest Trunk S

Release 3RP-1014, Incident #NCS1931842879

<u></u> 90_													_ P
/2022 2:48:4:	Date	Operating Days	Telemetry Operating Hours Reading	Field PID- OVM (ppmv)	Telemetry Inlet Vacuum (in. H ₂ O)	Calculated Inlet Vacuum (in. Hg)	Field Inlet Temp. (°F)	Telemetry Actual Flow Rate (acfm)	Total Standard Volume (ft³)	VOCs (GRO) (ug/L)	VOCs (GRO) Removed (Ibs/Δt)	lbs removed/ std ft ³	10:30:34 /AIR

- 4. total flow vapor flow between system readings (ΔT)
 - 5. °F degrees Fahrenheit
 - 6. Site elevation 7,140 ft amsl
 - 7. Flow readings from telemetry data.
 - 8. NM = not measured







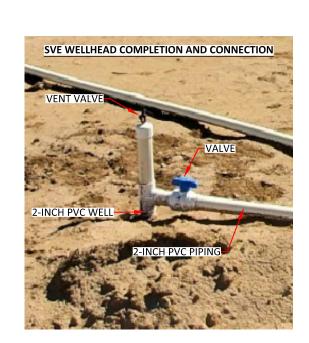




FIGURE 2

SVE UNIT AND SVE WELL LAYOUT
HARVEST MIDSTREAM TRUNK S RELEASE LOCATION
INCIDENT NUMBER: NCS1931842879
RELEASE ID: 373888 NE½ SE¼, SEC. 7, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.41180, W107.18085



animas environmental

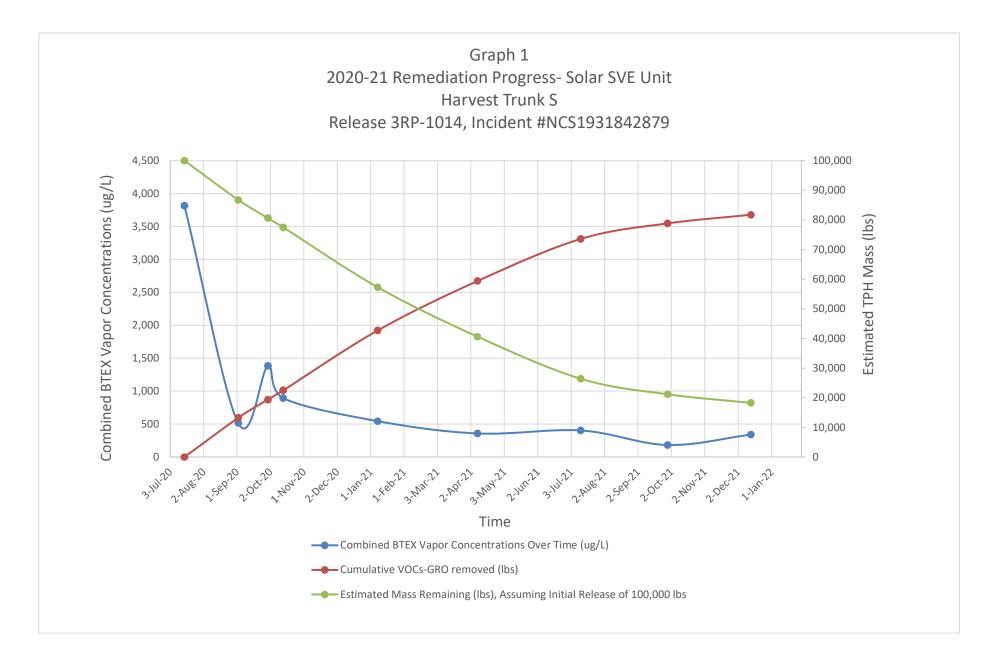
Farmington, NM • Durango, CO animasenvironmental.com

DRAWN BY:	DATE DRAWN:					
C. Lameman	August 3, 2020					
REVISIONS BY:	DATE REVISED:					
C. Lameman	October 22, 2020					
CHECKED BY:	DATE CHECKED:					
E. McNally	October 22, 2020					
APPROVED BY:	DATE APPROVED:					
E. McNally	October 22, 2020					

LEGEND

SOIL VAPOR EXTRACTION WELL

Received by OCD: 1/7/2022 10:50:52 AM





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

December 28, 2021

Angela Ledgerwood Animas Environmental Services 624 E. Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX: (505) 324-2022

RE: Harvest Trunk S Quarterly Air Sampling OrderNo.: 2112971

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/15/2021 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2112971

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SVE Influent

Project:Harvest Trunk S Quarterly Air SamplingCollection Date: 12/14/2021 10:47:00 AMLab ID:2112971-001Matrix: AIRReceived Date: 12/15/2021 8:00:00 AM

Ethylbenzene 10 2.0 μg/L 20 12/17/2021 3:12:00 PM R Methyl tert-butyl ether (MTBE) ND 2.0 μg/L 20 12/17/2021 3:12:00 PM R 1,2,4-Trimethylbenzene 4.0 2.0 μg/L 20 12/17/2021 3:12:00 PM R 1,3,5-Trimethylbenzene 5.9 2.0 μg/L 20 12/17/2021 3:12:00 PM R 1,2-Dichloroethane (EDC) ND 2.0 μg/L 20 12/17/2021 3:12:00 PM R 1,2-Dibromoethane (EDB) ND 2.0 μg/L 20 12/17/2021 3:12:00 PM R Naphthalene ND 4.0 μg/L 20 12/17/2021 3:12:00 PM R 1-Methylnaphthalene ND 8.0 μg/L 20 12/17/2021 3:12:00 PM R 2-Methylnaphthalene ND 8.0 μg/L 20 12/17/2021 3:12:00 PM R Acetone ND 20 μg/L 20 12/17/2021 3:12:00 PM R	Batch
Surr: BFB 472 37.3-213 S %Rec 20 12/16/2021 9:20:30 AM 68 EPA METHOD 8260B: VOLATILES	NSB
EPA METHOD 8260B: VOLATILES	G84607
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- Βιοιπουστίζετας - 20 μg/L 20 12/11/2021 3.12.00 FWL Κ	R84633
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	R84633
Bromomethane ND 4.0 μg/L 20 12/17/2021 3:12:00 PM R	R84633
2-Butanone ND 20 μg/L 20 12/17/2021 3:12:00 PM R	R84633
Carbon disulfide ND 20 µg/L 20 12/17/2021 3:12:00 PM R	R84633
Carbon tetrachloride ND 2.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633
Chlorobenzene ND 2.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633
	R84633
Chloroform ND 2.0 μg/L 20 12/17/2021 3:12:00 PM R	R84633
	R84633
2-Chlorotoluene ND 2.0 μg/L 20 12/17/2021 3:12:00 PM R	R84633
4-Chlorotoluene ND 2.0 μg/L 20 12/17/2021 3:12:00 PM R	R84633
cis-1,2-DCE ND 2.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633
cis-1,3-Dichloropropene ND 2.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633
1,2-Dibromo-3-chloropropane ND 4.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633
Dibromochloromethane ND 2.0 μg/L 20 12/17/2021 3:12:00 PM R	R84633
Dibromomethane ND 4.0 μg/L 20 12/17/2021 3:12:00 PM R	R84633
1,2-Dichlorobenzene ND 2.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633
	R84633
1,4-Dichlorobenzene ND 2.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633
Dichlorodifluoromethane ND 2.0 μg/L 20 12/17/2021 3:12:00 PM R	R84633
1,1-Dichloroethane ND 2.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633
1,1-Dichloroethene ND 2.0 µg/L 20 12/17/2021 3:12:00 PM R	R84633

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 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 1 of 2

Analytical Report Lab Order 2112971

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SVE Influent

Project:Harvest Trunk S Quarterly Air SamplingCollection Date: 12/14/2021 10:47:00 AMLab ID:2112971-001Matrix: AIRReceived Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst:	ССМ
1,2-Dichloropropane	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,3-Dichloropropane	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
2,2-Dichloropropane	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,1-Dichloropropene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
Hexachlorobutadiene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
2-Hexanone	ND	20	μg/L	20	12/17/2021 3:12:00 PM	R84633
Isopropylbenzene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
4-Isopropyltoluene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
4-Methyl-2-pentanone	ND	20	μg/L	20	12/17/2021 3:12:00 PM	R84633
Methylene chloride	ND	6.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
n-Butylbenzene	ND	6.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
n-Propylbenzene	2.0	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
sec-Butylbenzene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
Styrene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
tert-Butylbenzene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,1,1,2-Tetrachloroethane	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
Tetrachloroethene (PCE)	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
trans-1,2-DCE	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
trans-1,3-Dichloropropene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,2,3-Trichlorobenzene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,2,4-Trichlorobenzene	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,1,1-Trichloroethane	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,1,2-Trichloroethane	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
Trichloroethene (TCE)	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
Trichlorofluoromethane	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
1,2,3-Trichloropropane	ND	4.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
Vinyl chloride	ND	2.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
Xylenes, Total	170	3.0	μg/L	20	12/17/2021 3:12:00 PM	R84633
Surr: Dibromofluoromethane	96.6	70-130	%Rec	20	12/17/2021 3:12:00 PM	R84633
Surr: 1,2-Dichloroethane-d4	85.2	70-130	%Rec	20	12/17/2021 3:12:00 PM	R84633
Surr: Toluene-d8	118	70-130	%Rec	20	12/17/2021 3:12:00 PM	R84633
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	20	12/17/2021 3:12:00 PM	R84633

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 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 2 of 2

ANALYTICAL SUMMARY REPORT

December 18, 2021

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: G21120300
Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 12/16/2021 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G21120300-001	2112971-001B; SVE Influent	12/14/21 10:47	7 12/16/21	Gas	Natural Gas Analysis - BTU Natural Gas Analysis - Compressibility Factor Natural Gas Analysis - GPM Natural Gas Analysis - Molecular Weight Natural Gas Analysis - Routine Natural Gas Analysis - Pressure Base Natural Gas Analysis - Psuedo- Critical Pressure Natural Gas Analysis - Psuedo- Critical Temperature Natural Gas Analysis - Specific Gravity Natural Gas Analysis - Temperature Base

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these tests results, please contact your Project Manager.

Report Approved By:

Date Received: 12/16/21



LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental

Project: Not Indicated Report Date: 12/18/21 Client Sample ID: 2112971-001B; SVE Influent Collection Date: 12/14/21 10:47

Location:

Lab ID: Sampled By: Not Provided G21120300-001

Analyses	Result Units	Qualifier Method	Analysis Date / By
NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT			
Oxygen	21.828 Mol %	GPA 2261	12/17/21 14:41 / djb
Nitrogen	77.678 Mol %	GPA 2261	12/17/21 14:41 / djb
Carbon Dioxide	0.404 Mol %	GPA 2261	12/17/21 14:41 / djb
Hydrogen Sulfide	< 0.001 Mol %	GPA 2261	12/17/21 14:41 / djb
Methane	< 0.001 Mol %	GPA 2261	12/17/21 14:41 / djb
Ethane	0.001 Mol %	GPA 2261	12/17/21 14:41 / djb
Propane	< 0.001 Mol %	GPA 2261	12/17/21 14:41 / djb
Isobutane	0.001 Mol %	GPA 2261	12/17/21 14:41 / djb
n-Butane	0.002 Mol %	GPA 2261	12/17/21 14:41 / djb
Isopentane	0.003 Mol %	GPA 2261	12/17/21 14:41 / djb
n-Pentane	0.002 Mol %	GPA 2261	12/17/21 14:41 / djb
Hexanes plus	0.081 Mol %	GPA 2261	12/17/21 14:41 / djb
GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS			
GPM Ethane	< 0.0003 gal/MCF	GPA 2261	12/17/21 14:41 / djb
GPM Propane	< 0.0003 gal/MCF	GPA 2261	12/17/21 14:41 / djb
GPM Isobutane	< 0.0003 gal/MCF	GPA 2261	12/17/21 14:41 / djb
GPM n-Butane	0.0010 gal/MCF	GPA 2261	12/17/21 14:41 / djb
GPM Isopentane	0.0010 gal/MCF	GPA 2261	12/17/21 14:41 / djb
GPM n-Pentane	0.0010 gal/MCF	GPA 2261	12/17/21 14:41 / djb
GPM Hexanes plus	0.0350 gal/MCF	GPA 2261	12/17/21 14:41 / djb
GPM Pentanes plus	0.0370 gal/MCF	GPA 2261	12/17/21 14:41 / djb
GPM Total	0.0390 gal/MCF	GPA 2261	12/17/21 14:41 / djb
CALCULATED PROPERTIES			
Calculation Pressure Base	14.730 psia	GPA 2261	12/17/21 14:41 / djb
Calculation Temperature Base	60 °F	GPA 2261	12/17/21 14:41 / djb
Compressibility Factor, Z	1.0000 unitless	GPA 2261	12/17/21 14:41 / djb
Molecular Weight	29.00 unitless	GPA 2261	12/17/21 14:41 / djb
Pseudo-critical Pressure, psia	548 psia	GPA 2261	12/17/21 14:41 / djb
Pseudo-critical Temperature, deg R	241 deg R	GPA 2261	12/17/21 14:41 / djb
Specific Gravity (air=1.000)	1.004 unitless	GPA 2261	12/17/21 14:41 / djb
Gross BTU per cu ft @ std cond, dry	4.53 BTU/cu ft	GPA 2261	12/17/21 14:41 / djb
Gross BTU per cu ft @ std cond, wet	4.45 BTU/cu ft	GPA 2261	12/17/21 14:41 / djb

RL - Analyte Reporting Limit Report MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental Work Order: G21120300 Report Date: 12/18/21

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261							An	alytical Run:	R268601
Lab ID: ICV-2112170950	Initial Calibrat	ion Verific	ation Standard					12/17	7/21 09:51
Oxygen	0.379	Mol %	0.001	94	75	110			
Nitrogen	5.088	Mol %	0.001	101	90	110			
Carbon Dioxide	4.899	Mol %	0.001	99	90	110			
Hydrogen Sulfide	0.125	Mol %	0.001	126	100	136			
Methane	73.254	Mol %	0.001	100	90	110			
Ethane	4.995	Mol %	0.001	101	90	110			
Propane	4.999	Mol %	0.001	100	90	110			
Isobutane	1.991	Mol %	0.001	99	90	110			
n-Butane	1.973	Mol %	0.001	98	90	110			
Isopentane	0.988	Mol %	0.001	99	90	110			
n-Pentane	1.001	Mol %	0.001	100	90	110			
Hexanes plus	0.308	Mol %	0.001	102	90	110			
Lab ID: CCV-2112170957	Continuing Ca	alibration V	/erification Standa	ard				12/17	7/21 09:58
Oxygen	0.602	Mol %	0.001	100	90	110			
Nitrogen	1.283	Mol %	0.001	92	85	110			
Carbon Dioxide	0.956	Mol %	0.001	96	90	110			
Hydrogen Sulfide	0.023	Mol %	0.001	92	70	130			
Methane	93.575	Mol %	0.001	100	90	110			
Ethane	1.012	Mol %	0.001	101	90	110			
Propane	1.006	Mol %	0.001	101	90	110			
Isobutane	0.493	Mol %	0.001	98	90	110			
n-Butane	0.492	Mol %	0.001	98	90	110			
Isopentane	0.199	Mol %	0.001	99	90	110			
n-Pentane	0.200	Mol %	0.001	100	90	110			
Hexanes plus	0.159	Mol %	0.001	106	90	110			
Lab ID: CCV-2112171552	Continuing Ca	alibration V	erification Standa	ard				12/17	7/21 15:52
Oxygen	0.618	Mol %	0.001	103	90	110			
Nitrogen	1.326	Mol %	0.001	95	85	110			
Carbon Dioxide	0.954	Mol %	0.001	95	90	110			
Hydrogen Sulfide	0.022	Mol %	0.001	88	70	130			
Methane	93.525	Mol %	0.001	100	90	110			
Ethane	1.011	Mol %	0.001	101	90	110			
Propane	1.008	Mol %	0.001	101	90	110			
Isobutane	0.493	Mol %	0.001	98	90	110			
n-Butane	0.492	Mol %	0.001	98	90	110			
Isopentane	0.198	Mol %	0.001	99	90	110			
n-Pentane	0.199	Mol %	0.001	99	90	110			
Hexanes plus	0.154	Mol %	0.001	103	90	110			
Method: GPA 2261								Batch:	R268601
Lab ID: G21120300-001ADUP	Sample Dupli	cate			Run: Varia	n GC_211217A		12/17	7/21 14:47
Oxygen	21.824	Mol %	0.001			3 - <u>-</u> - 1 - 1 - 1 - 1 - 1 - 1	0.0	10	
, ,								-	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental Work Order: G21120300 Report Date: 12/18/21

Analyte	Result	Units	RL	%REC Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261							Batch:	R268601
Lab ID: G21120300-001ADUP	Sample Dupli	cate		Run: Variar	n GC_211217A		12/17	/21 14:47
Nitrogen	77.680	Mol %	0.001			0.0	10	
Carbon Dioxide	0.404	Mol %	0.001			0.0	10	
Hydrogen Sulfide	< 0.001	Mol %	0.001				10	
Methane	< 0.001	Mol %	0.001				10	
Ethane	0.001	Mol %	0.001			0.0	10	
Propane	< 0.001	Mol %	0.001				10	
Isobutane	0.001	Mol %	0.001			0.0	10	
n-Butane	0.002	Mol %	0.001			0.0	10	
Isopentane	0.003	Mol %	0.001			0.0	10	
n-Pentane	0.002	Mol %	0.001			0.0	10	
Hexanes plus	0.083	Mol %	0.001			2.4	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Billings, MT **800.735.4489** • Casper, WY **888.235.0515** Gillette, WY **866.686.7175** • Helena, MT **877.472.0711**

Work Order Receipt Checklist

Hall Environmental

G21120300

Login completed by:	Chantel S. Johnson		Date	Received: 12/16/202	1	
Reviewed by:	Misty Stephens		Re	ceived by: csj		
Reviewed Date:	12/17/2021		Car	rier name: FedEx		
Shipping container/cooler in o	good condition?	Yes ✓	No 🗌	Not Present		
Custody seals intact on all sh	sipping container(s)/cooler(s)?	Yes ✓	No 🗌	Not Present		
Custody seals intact on all sa	imple bottles?	Yes	No 🗌	Not Present ✓		
Chain of custody present?		Yes ✓	No 🗌			
Chain of custody signed whe	n relinquished and received?	Yes ✓	No 🗌			
Chain of custody agrees with	sample labels?	Yes ✓	No 🗌			
Samples in proper container/	bottle?	Yes ✓	No 🗌			
Sample containers intact?		Yes ✓	No 🗌			
Sufficient sample volume for	indicated test?	Yes ✓	No 🗌			
All samples received within h (Exclude analyses that are co such as pH, DO, Res CI, Sul	onsidered field parameters	Yes ✓	No 🗌			
Temp Blank received in all sh	nipping container(s)/cooler(s)?	Yes	No 🗌	Not Applicable 🗹		
Container/Temp Blank tempe	rature:	°C				
Containers requiring zero hea bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted	\checkmark	
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🔽		
Standard Reporting Procedures:						
Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.						
Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.						
Radiochemical precision	on results represent a 2-sig	ma Total Meası	urement Un	certainty.		
Contact and Corre	ective Action Comme	nts:				

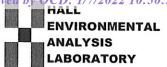
LABORATORY ANALYSIS ENVIRONMENTAL

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JUY I	
CCO.	

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975

Website: clients.hallenvironmental.com FAX: 505-345-4107

SUB CONTRATOR Energy Labs-Gillette COMPANY: Energ	Energy Laboratories	PHONE.	(866) 686-7175 FAX:
		ACCOUNT #:	EMAIL:
CITY, STATE, ZIP Gillette, WY 82718		-	
			# CONITY
TTEM SAMPLE CLIENT SAMPLE ID	TYPE	MATRIX DATE	ANALYTICAL COMMENTS
2112971-001B SVE	1	Air 12/14/2021 10:47:00 AM 1 Fixed Gases	1 Fixed Gases 02, C02
SPECIAL INSTRUCTIONS / COMMENTS: Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.	reports. Please e-1	mail results to lab@hallenvironme	intal.com. Please return all coolers and blue ice. Thank you.
Relinquished By Date: Time Time Received By	¥	Date: The D	REPORT TRANSMITTAL DESIRED:
Date: Time: Receiv	and thousand	Table Training	FOR LAB USE
RUSH	Next BD = 2	2nd BD 3rd BD	Temp of samples Attempt to Court
			Comments: ()



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

	Animas Environmental Services	Work Order Num	ber: 2112971		RcptNo:	1
Received By:	Isaiah Ortiz	12/15/2021 8:00:00	O AM	INO	4	
Completed By:	Cheyenne Cason	12/15/2021 1:32:29	9 PM	I_O		
Reviewed By:	TO	12/15/21				
Chain of Custo	<u>ody</u>					
1. Is Chain of Cus	stody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sa	ample delivered?		<u>Courier</u>			
Log In						
Was an attemp	t made to cool the sampl	es?	Yes 🗸	No 🗌	NA 🗌	
4. Were all sample	es received at a temperat	ure of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in pr	oper container(s)?		Yes 🗸	No 🗌		
6. Sufficient samp	le volume for indicated te	st(s)?	Yes 🗹	No 🗌		
7. Are samples (ex	cept VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
8. Was preservativ	ve added to bottles?		Yes	No 🗹	NA \square	
9. Received at leas	st 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗌	NA 🗸	
10. Were any samp	ole containers received bu	oken?	Yes	No 🗸	# of preserved	
	match bottle labels? cies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH:	12 unless noted)
12. Are matrices co	rrectly identified on Chair	of Custody?	Yes 🗸	No 🗌	Adjusted?	
	inalyses were requested?	•	Yes 🗸	No 🗌		01
	times able to be met? tomer for authorization.)		Yes 🗹	No 🗌	Checked by:	12.15.51
	g (if applicable)					
	ied of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹	
Person N	otified:	Date	The same and the s	Enteroderonautur		
By Whom		Via:	eMail F	Phone Fax	☐ In Person	
Regarding	g:					
Client Ins	tructions:		NO PROPERTY OF THE PROPERTY OF		The state of the s	
16. Additional rema	arks:					
17. Cooler Inform	ation					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1	2.8 Good	Yes				

	dations record		HALL ENVIRONMENTA
Client: Animas Envi	Animas Environmental Services	⊠ Standard □ Rush	ANAI YSTS I ARODATO
		Project Name:	
Mailing Address: P.	P.O. Box 8	Harvest Trunk S - quarterly air sampling	4901 Hawkins NF - Alburieran NM 87109
Farmington, NM 87499-0008	A 87499-0008	Project #:	Tel 505-345-3975 Fax 505-345-4107
Phone #: 720-537-6650	920	Harvest Trunk S - quarterly air sampling	
email or Fax#: aledgerwood@	aledgerwood@animasenvironmental.com		810 19
QA/QC Package:		ngela Ledgerwood	9 Po
	□ Level 4 (Full Validation)	Sampler:	ipoqje
on:	oliance	8	M A 9M A
□ NELAC □ Other	/	On Ice:	/d∃
☐ EDD (Type)		# of Coolers: /	l si
		Cooler Temp(including CF): 24-0,117F 7.8"	۷ O۶
Date Time Matrix S	Sample Name	No.	OCs v
10417 Air	SVE Influent	1,62112, 246	1
14:01		z redial bags none (20)	×
Date: Time: Relinquished by:		Received by: Via: Date Time F	Remarks:
Time:		17 1/21 1: Date	Please direct-bill this project to BMG.
14/21 1811 / Dus	the Week	2 C Cornein 12/15/21 0800	
If necessary, samples sub	nitted to Hall Environmental may be su	bcontracted to other accredited laboratories. This serves as notice of this p	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.

Page 22 of 23

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 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 71022

CONDITIONS

Operator:	OGRID:
Harvest Four Corners, LLC	373888
1111 Travis Street	Action Number:
Houston, TX 77002	71022
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created	Condition	Condition Date
Ву		
nvelez	Accepted for the record. See app ID 129947 for most updated status.	10/18/2022