



October 28, 2021

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

Submitted via NMOCD Online Portal

**RE: Q3 2021 Periodic Progress Report
Trunk S Release (August-October 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 Q3 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 August to October 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.

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2.0 SVE System Operations and Maintenance (O&M) – 3rd Quarter 2021

2.1 SVE O&M

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

- August 12, 2021
- September 9, 2021
- September 29, 2021
- October 20, 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 September 29, 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 include the following:

- GAC changeouts were completed on September 29, 2021; and
- At the August 12, September 9, September 29, and October 20, 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 decreased sharply in those two zones. Zones 4 and 5 were 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.

2.2 Laboratory Analytical Results

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

- 6,500 micrograms per liter (µg/L) of total petroleum hydrocarbons (TPH)- GRO;
- 15 µg/L benzene;
- 77 µg/L toluene;
- 5.3 µg/L ethylbenzene;

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- 85 µg/L xylenes;
- 21.567% oxygen;
- 77.829% nitrogen; and
- 0.536% carbon dioxide.

GRO concentrations in SVE influent flow have decreased by 96% 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 are typically characterized by low oxygen and elevated carbon dioxide. Laboratory analytical data are included in Table 1, and the laboratory analytical reports are attached.

3.0 Operational Data and Petroleum Mass Removal – 3rd Quarter 2021

On April 16, 2021, the data telemetry reporting the cloud-based storage server was disrupted. Therefore, runtime hours, inlet vacuum pressures, and flow rates have been estimated based on previous operational data and field measurements. Based on data through April 16, 2021, estimates of runtime from July 13 through September 29, 2021, field readings, and analytical data from the sampling event, the following SVE operations summary through September 29, 2021, are presented below:

| <i>Trunk S Solar SVE System Operations Summary</i> | |
|---|------------|
| <i>Total SVE system operating hours since system startup (hrs)</i> | 5,550 |
| <i>Most recent event SVE system influent PID-OVM reading (ppm)</i> | 561 |
| <i>Most recent event Inlet Vacuum (inH₂O)</i> | -19 |
| <i>Most recent event Actual Flow Rate (acfm)</i> | 124 |
| <i>Total cumulative standard volume processed since system startup (ft³)</i> | 28,095,538 |
| <i>Total estimated petroleum mass removal since system startup (lbs)</i> | 79,269 |
| <i>Estimated lbs removed/std ft³ for current reporting period (lbs/std ft³)</i> | 0.0005 |

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System operating parameters and corrected mass removal estimates are detailed in Table 2, and Graph 1 shows remediation progress through September 29, 2021.

4.0 Removal of Stockpiled Soils

On September 17, 2021, NMOCD approved Harvest's plan to move stockpiled soils from the Trunk S property to Harvest's Lybrook facility (36.231980, -107.547740). The soils were used to fill areas with the facility boundary that were eroded by recent rain events. Harpole Construction transported the soils, and transportation activities were completed on October 28, 2021. The condition of property following the stockpile removal is documented in the attached Photograph Log.

5.0 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.

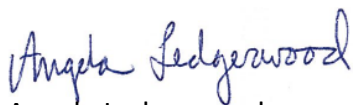
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6.0 Schedule

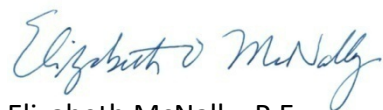
AES will continue to conduct monthly O&M visits, quarterly vapor field and laboratory analytical sampling, and monitoring and replacing GAC drums as needed.

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



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 –
September 29, 2021 Vapor Sampling (Hall No. 2109H33)
Photograph Log

Cc:
Monica Smith
Harvest Midstream Company
Electronic Mail: msmith@harvestmidstream.com

Tables

TABLE 1
SVE VAPOR LABORATORY ANALYTICAL RESULTS
Harvest Trunk S
Release 3RP-1014, Incident #NCS1931842879

| Date | Benzene $\mu\text{g/L}$ | Toluene $\mu\text{g/L}$ | Ethyl- benzene $\mu\text{g/L}$ | Totals Xylenes $\mu\text{g/L}$ | GRO $\mu\text{g/L}$ | O₂ Mol % | CO₂ 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 |

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)

$\mu\text{g/L}$ Micrograms per liter

Mol% Mole percent

NS Not Sampled

O₂ Oxygen

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) ⁷ | 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 | 0.0042 |
| 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 | 87 | 4,501,712 | NM | -- | -- |
| 12-Jul-21 | 361 | 4,535 | 859 | -19 | -1.398 | 86 | 94 | 124 | 89 | 1,864,262 | 19,000 | 14,493 | 0.0012 |
| 12-Aug-21 | 392 | 4,958 | 355 | -19 | -1.398 | 76 | 94 | 124 | 88 | 2,245,705 | NM | -- | -- |
| 9-Sep-21 | 420 | 5,314 | 351 | -19 | -1.398 | 85 | 102 | 124 | 88 | 1,879,627 | NM | -- | -- |
| 29-Sep-21 | 440 | 5,550 | 561 | -19 | -1.398 | 50 | 53 | 124 | 91 | 1,270,972 | 6,500 | 5,376 | 0.0005 |

Cumulative Flow 28,095,538

**79,269
total lbs
removed**

Notes:

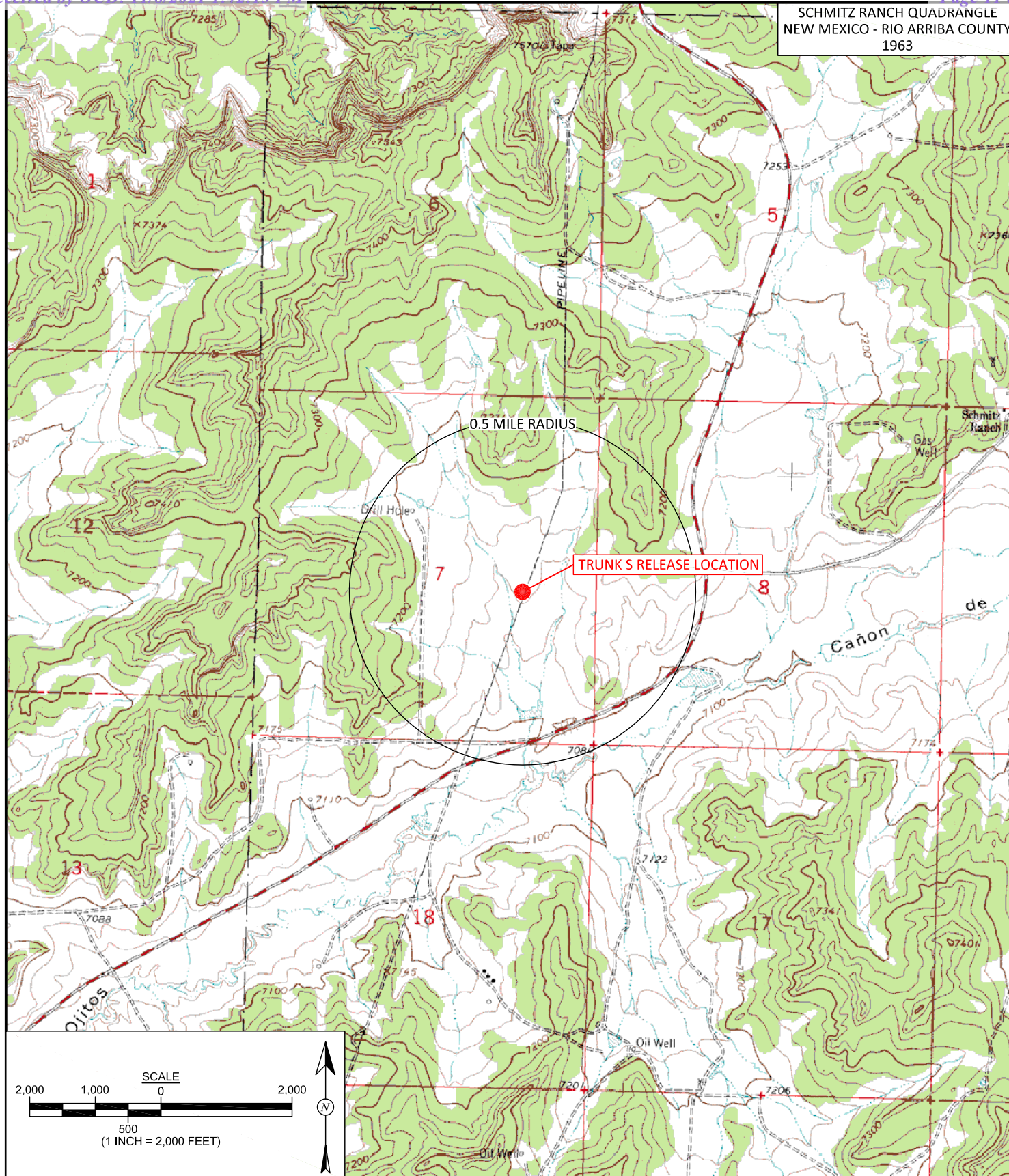
1. PID - photoionization detector; OVM - organic vapor meter
2. ppmv - parts per million by volume (v/v; equivalent to mL/L or mL/m³)
3. acfm - measured cubic feet per minute (volumetric flow, calculated based on flow velocity and pipe diameter)
4. total flow - vapor flow between system readings (ΔT)
5. °F - degrees Fahrenheit
6. Site elevation - 7,140 ft amsl
7. Flow readings from telemetry data.

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

| <i>Date</i> | <i>Operating Days</i> | <i>Telemetry Operating Hours Reading</i> | <i>Field PID-OVM (ppmv)</i> | <i>Telemetry Inlet Vacuum (in. H₂O)</i> | <i>Calculated Inlet Vacuum (in. Hg)</i> | <i>Field Inlet Temp. (°F)</i> | <i>Field Outlet Temp. (°F)</i> | <i>Telemetry Actual Flow Rate (acfm)⁷</i> | <i>Telemetry Converted to Standard Flow Rate (scfm)</i> | <i>Total Standard Volume (ft³)</i> | <i>VOCs (GRO) (ug/L)</i> | <i>VOCs (GRO) Removed (lbs/ Δt)</i> | <i>lbs removed/ std ft³</i> |
|-------------|-----------------------|--|-----------------------------|--|---|-------------------------------|--------------------------------|--|---|---|--------------------------|-------------------------------------|--|
|-------------|-----------------------|--|-----------------------------|--|---|-------------------------------|--------------------------------|--|---|---|--------------------------|-------------------------------------|--|

8. NM = not measured

Figures



animas
environmental
services

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:
C. Lameman

DATE DRAWN:
July 22, 2019

REVISIONS BY:
C. Lameman

DATE REVISED:
July 22, 2019

CHECKED BY:
E. McNally

DATE CHECKED:
July 22, 2019

APPROVED BY:
E. McNally

DATE APPROVED:
July 22, 2019

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
HARVEST MIDSTREAM
TRUNK S RELEASE LOCATION
NE $\frac{1}{4}$ SE $\frac{1}{4}$, SEC. 7, T25N, R3W
RIO ARriba COUNTY, NEW MEXICO
N36.41180, -107.18085

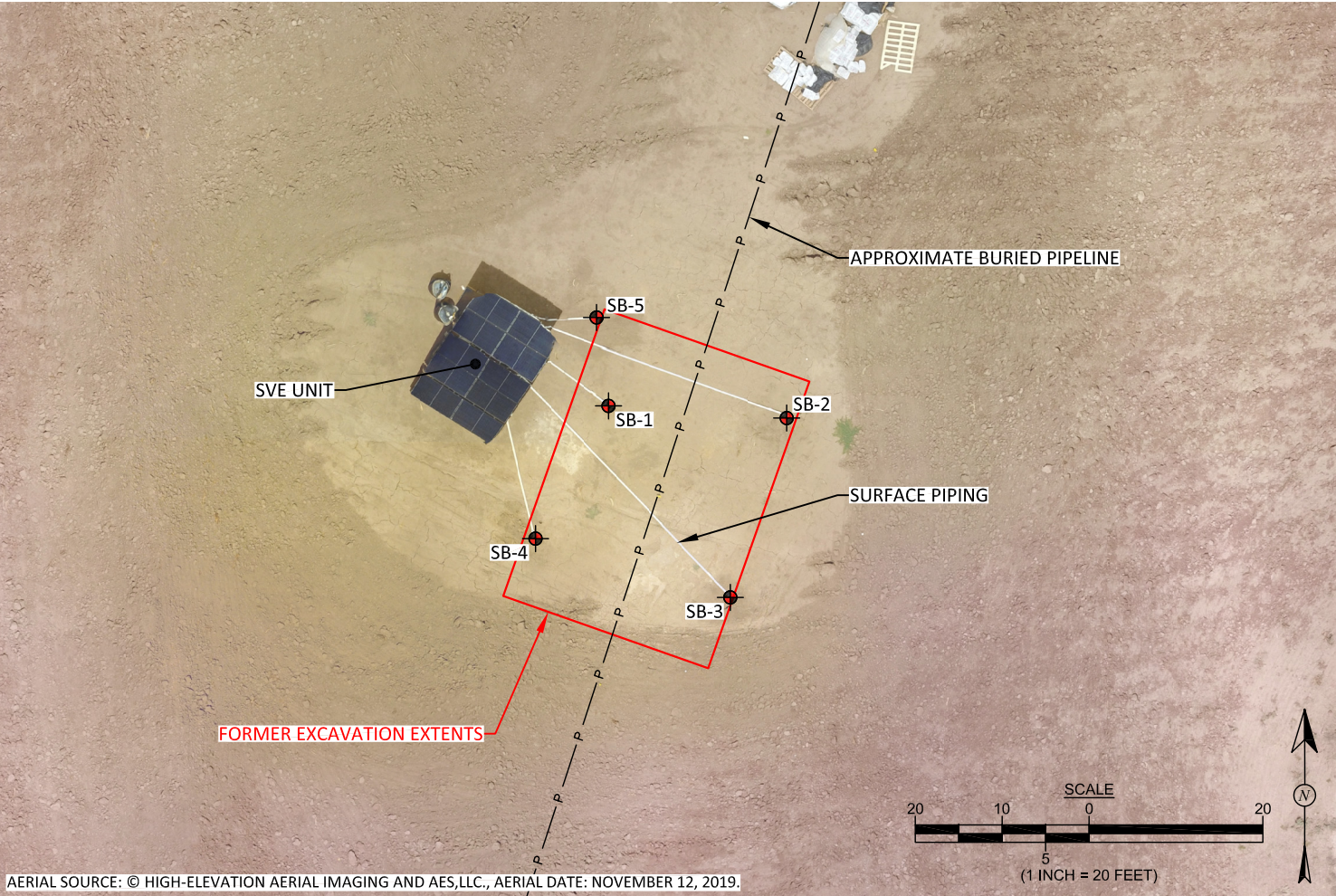
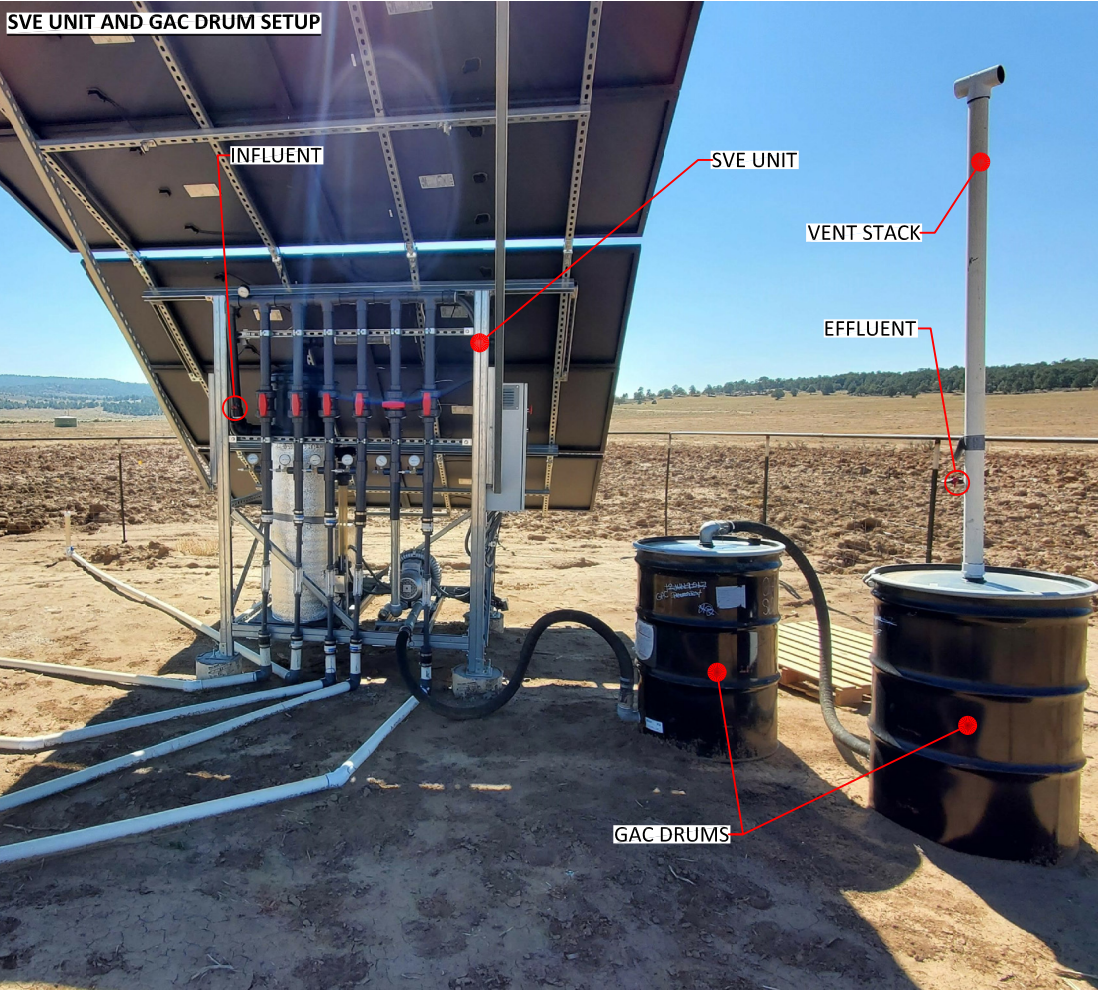


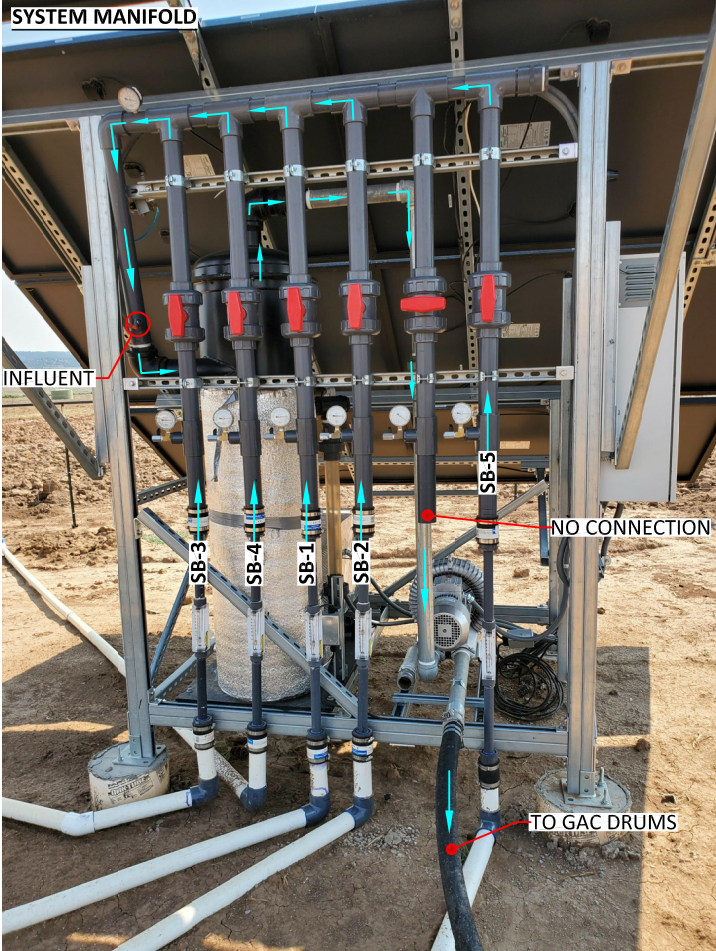
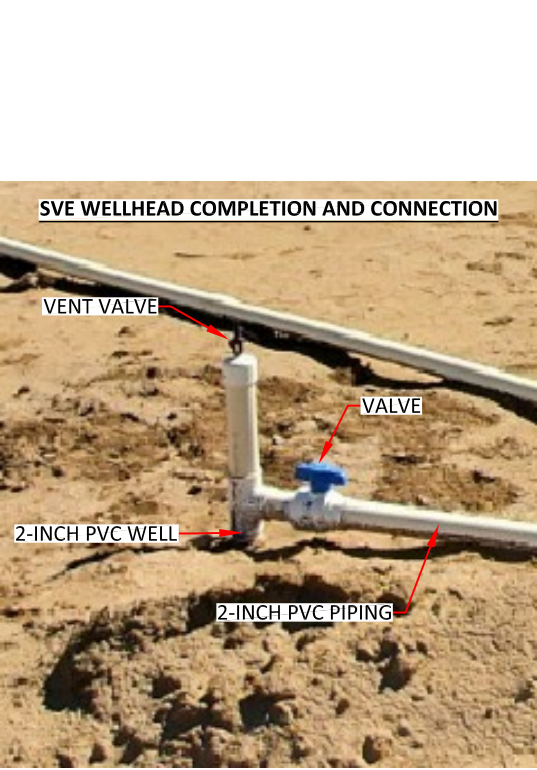
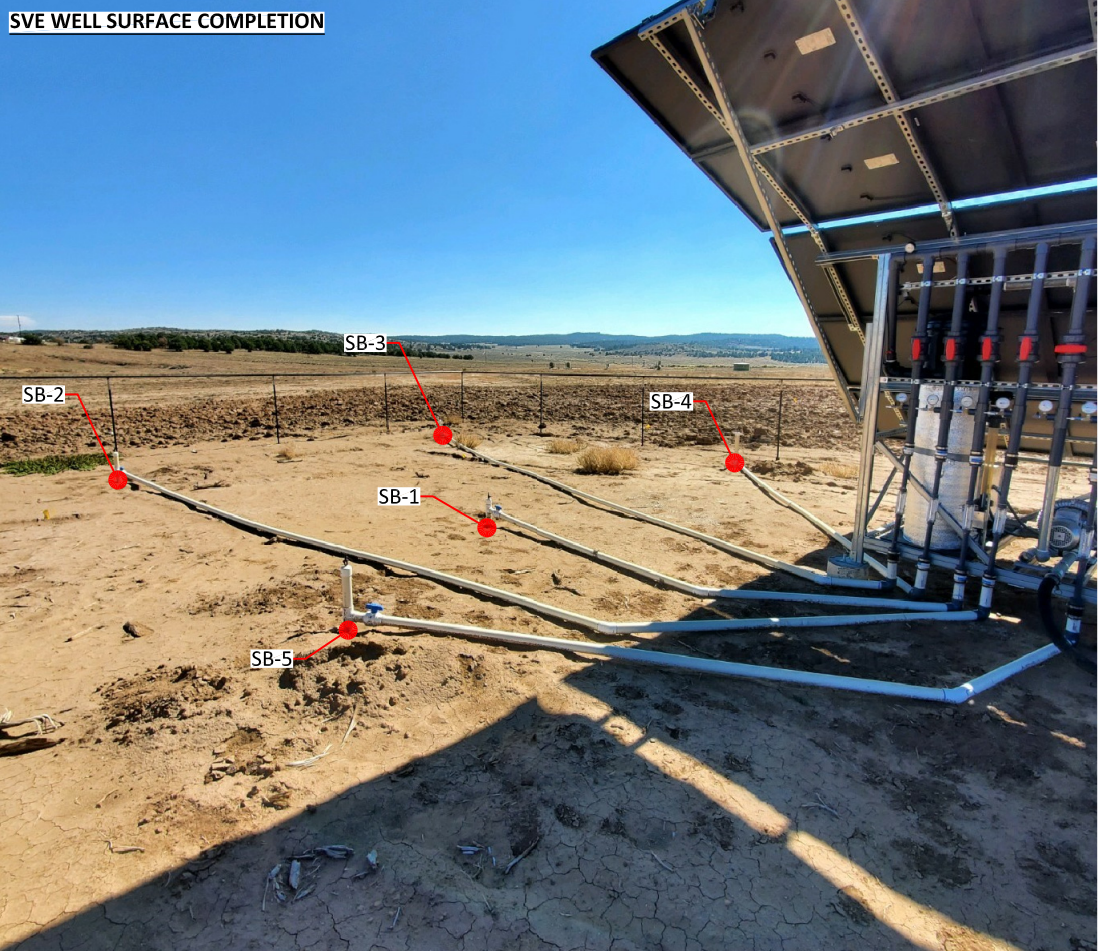
FIGURE 2

SVE UNIT AND SVE WELL LAYOUT
HARVEST MIDSTREAM
TRUNK S RELEASE LOCATION
INCIDENT NUMBER: NCS1931842879
RELEASE ID: 373888
NE¼ SE¼, SEC. 7, T25N, R3W
RIO ARriba COUNTY, NEW MEXICO
N36.41180, W107.18085

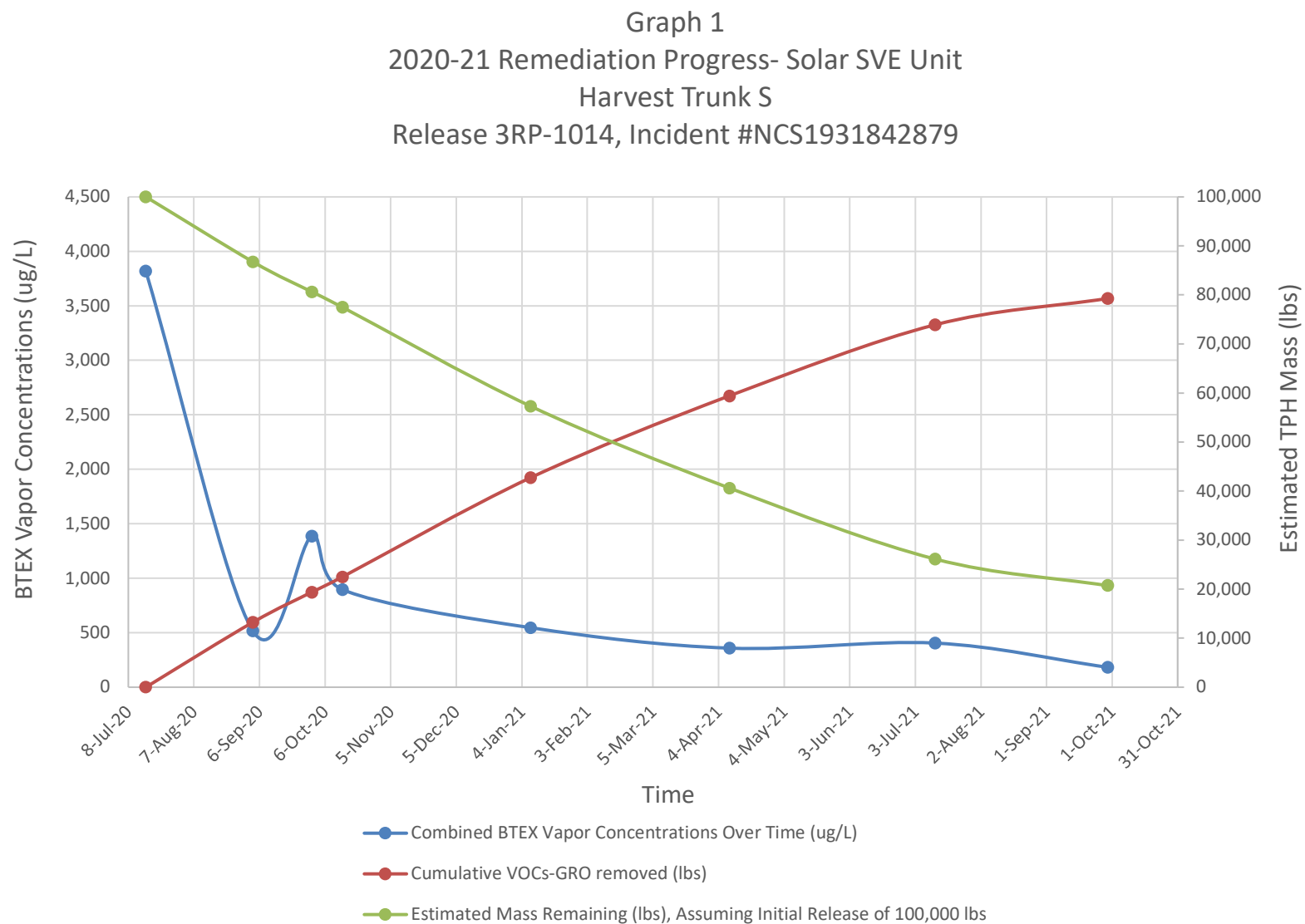


| | |
|------------------------------------|---|
| DRAWN BY: C. Lameman | DATE DRAWN: August 3, 2020 |
| REVISIONS BY: C. Lameman | DATE REVISED: October 22, 2020 |
| CHECKED BY: E. McNally | DATE CHECKED: October 22, 2020 |
| APPROVED BY: E. McNally | DATE APPROVED: October 22, 2020 |

LEGEND
SOIL VAPOR EXTRACTION WELL



Graphs



Attachments



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

October 14, 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.: 2109H33

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/30/2021 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2109H33

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SVE Influent

Project: Harvest Trunk S quarterly air sampling

Collection Date: 9/29/2021 8:56:00 AM

Lab ID: 2109H33-001

Matrix: AIR

Received Date: 9/30/2021 7:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | 6500 | 100 | | µg/L | 20 | 10/7/2021 6:56:00 PM | G81874 |
| Surr: BFB | 79.7 | 70-130 | | %Rec | 20 | 10/7/2021 6:56:00 PM | G81874 |
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: CCM |
| Benzene | 15 | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Toluene | 77 | 2.0 | | µg/L | 20 | 10/7/2021 6:56:00 PM | R81874 |
| Ethylbenzene | 5.3 | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Methyl tert-butyl ether (MTBE) | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,2,4-Trimethylbenzene | 1.4 | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,3,5-Trimethylbenzene | 2.4 | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,2-Dichloroethane (EDC) | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Naphthalene | ND | 1.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1-Methylnaphthalene | ND | 2.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 2-Methylnaphthalene | ND | 2.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Acetone | 7.2 | 5.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Bromobenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Bromodichloromethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Bromoform | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Bromomethane | ND | 1.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 2-Butanone | ND | 5.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Carbon disulfide | ND | 5.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Chlorobenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Chloroethane | ND | 1.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Chloroform | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Chloromethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| cis-1,2-DCE | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Dibromochloromethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Dibromomethane | ND | 1.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |

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

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

Page 1 of 4

Analytical Report

Lab Order 2109H33

Date Reported: 10/14/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SVE Influent

Project: Harvest Trunk S quarterly air sampling

Collection Date: 9/29/2021 8:56:00 AM

Lab ID: 2109H33-001

Matrix: AIR

Received Date: 9/30/2021 7:10:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|------------------------------------|--------|--------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8260B: VOLATILES | | | | | | | Analyst: CCM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 2-Hexanone | ND | 5.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Isopropylbenzene | 0.70 | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 4-Methyl-2-pentanone | ND | 5.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Methylene chloride | ND | 1.5 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| n-Butylbenzene | ND | 1.5 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| n-Propylbenzene | 0.82 | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| sec-Butylbenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Styrene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| tert-Butylbenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Tetrachloroethene (PCE) | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| trans-1,2-DCE | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| trans-1,3-Dichloropropene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Trichloroethene (TCE) | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| 1,2,3-Trichloropropane | ND | 1.0 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Vinyl chloride | ND | 0.50 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Xylenes, Total | 85 | 0.75 | | µg/L | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Surr: Dibromofluoromethane | 91.9 | 70-130 | | %Rec | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Surr: 1,2-Dichloroethane-d4 | 79.9 | 70-130 | | %Rec | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Surr: Toluene-d8 | 143 | 70-130 | S | %Rec | 5 | 10/3/2021 12:00:00 PM | B81738 |
| Surr: 4-Bromofluorobenzene | 96.4 | 70-130 | | %Rec | 5 | 10/3/2021 12:00:00 PM | B81738 |

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 Quantitative Limit |
| | S | % Recovery outside of range due to dilution or matrix |

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

Page 2 of 4



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ANALYTICAL SUMMARY REPORT

October 05, 2021

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

Work Order: G21100025

Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 10/1/2021 for analysis.

| Lab ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---------------|----------------------------|---------------|--------------|--------|---|
| G21100025-001 | 2109H33-001B; SVE Influent | 09/29/21 8:56 | 10/01/21 | Air | 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:



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LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental
Project: Not Indicated
Client Sample ID: 2109H33-001B; SVE Influent
Location:
Lab ID: G21100025-001

Report Date: 10/05/21
Collection Date: 09/29/21 08:56
Date Received: 10/01/21
Sampled By: Not Provided

Analyses

Result Units Qualifier Method Analysis Date / By

NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT

| | | | |
|------------------|---------------|----------|----------------------|
| Oxygen | 21.567 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Nitrogen | 77.829 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Carbon Dioxide | 0.536 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Hydrogen Sulfide | < 0.001 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Methane | < 0.001 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Ethane | 0.001 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Propane | < 0.001 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Isobutane | 0.001 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| n-Butane | 0.002 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Isopentane | 0.003 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| n-Pentane | 0.003 Mol % | GPA 2261 | 10/05/21 07:12 / djb |
| Hexanes plus | 0.058 Mol % | GPA 2261 | 10/05/21 07:12 / djb |

GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS

| | | | |
|-------------------|------------------|----------|----------------------|
| GPM Ethane | < 0.0003 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |
| GPM Propane | < 0.0003 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |
| GPM Isobutane | < 0.0003 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |
| GPM n-Butane | 0.0010 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |
| GPM Isopentane | 0.0010 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |
| GPM n-Pentane | 0.0010 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |
| GPM Hexanes plus | 0.0250 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |
| GPM Pentanes plus | 0.0270 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |
| GPM Total | 0.0290 gal/MCF | GPA 2261 | 10/05/21 07:12 / djb |

CALCULATED PROPERTIES

| | | | |
|-------------------------------------|-----------------|----------|----------------------|
| Calculation Pressure Base | 14.730 psia | GPA 2261 | 10/05/21 07:12 / djb |
| Calculation Temperature Base | 60 °F | GPA 2261 | 10/05/21 07:12 / djb |
| Compressibility Factor, Z | 1.0000 unitless | GPA 2261 | 10/05/21 07:12 / djb |
| Molecular Weight | 29.00 unitless | GPA 2261 | 10/05/21 07:12 / djb |
| Pseudo-critical Pressure, psia | 548 psia | GPA 2261 | 10/05/21 07:12 / djb |
| Pseudo-critical Temperature, deg R | 241 deg R | GPA 2261 | 10/05/21 07:12 / djb |
| Specific Gravity (air=1.000) | 1.004 unitless | GPA 2261 | 10/05/21 07:12 / djb |
| Gross BTU per cu ft @ std cond, dry | 3.34 BTU/cu ft | GPA 2261 | 10/05/21 07:12 / djb |
| Gross BTU per cu ft @ std cond, wet | 3.28 BTU/cu ft | GPA 2261 | 10/05/21 07:12 / djb |

Report RL - Analyte Reporting Limit
Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



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QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental

Work Order: G21100025

Report Date: 10/05/21

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|--|-------|-------|------|-----------|------------|-------------------------|------------------------|----------------|
| Method: GPA 2261 | | | | | | | Analytical Run: R267165 | | |
| Lab ID: ICV-2110050642 | Initial Calibration Verification Standard | | | | | | | 10/05/21 06:42 | |
| Oxygen | 0.393 | Mol % | 0.001 | 98 | 75 | 110 | | | |
| Nitrogen | 5.128 | Mol % | 0.001 | 102 | 90 | 110 | | | |
| Carbon Dioxide | 4.906 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| Hydrogen Sulfide | 0.125 | Mol % | 0.001 | 126 | 100 | 136 | | | |
| Methane | 73.148 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Ethane | 5.010 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Propane | 5.009 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Isobutane | 2.000 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| n-Butane | 1.981 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| Isopentane | 0.991 | 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-2110050648 | Continuing Calibration Verification Standard | | | | | | | 10/05/21 06:49 | |
| Oxygen | 0.613 | Mol % | 0.001 | 102 | 90 | 110 | | | |
| Nitrogen | 1.308 | Mol % | 0.001 | 93 | 85 | 110 | | | |
| Carbon Dioxide | 0.958 | Mol % | 0.001 | 96 | 90 | 110 | | | |
| Hydrogen Sulfide | 0.026 | Mol % | 0.001 | 104 | 70 | 130 | | | |
| Methane | 93.521 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Ethane | 1.018 | Mol % | 0.001 | 102 | 90 | 110 | | | |
| Propane | 1.013 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Isobutane | 0.495 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| n-Butane | 0.495 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| Isopentane | 0.199 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| n-Pentane | 0.200 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Hexanes plus | 0.154 | Mol % | 0.001 | 103 | 90 | 110 | | | |
| Lab ID: CCV-2110050819 | Continuing Calibration Verification Standard | | | | | | | 10/05/21 08:20 | |
| Oxygen | 0.604 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Nitrogen | 1.277 | Mol % | 0.001 | 91 | 85 | 110 | | | |
| Carbon Dioxide | 0.957 | Mol % | 0.001 | 96 | 90 | 110 | | | |
| Hydrogen Sulfide | 0.026 | Mol % | 0.001 | 104 | 70 | 130 | | | |
| Methane | 93.556 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Ethane | 1.025 | Mol % | 0.001 | 102 | 90 | 110 | | | |
| Propane | 1.011 | Mol % | 0.001 | 101 | 90 | 110 | | | |
| Isobutane | 0.496 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| n-Butane | 0.495 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| Isopentane | 0.199 | Mol % | 0.001 | 99 | 90 | 110 | | | |
| n-Pentane | 0.200 | Mol % | 0.001 | 100 | 90 | 110 | | | |
| Hexanes plus | 0.154 | Mol % | 0.001 | 103 | 90 | 110 | | | |
| Method: GPA 2261 | | | | | | | Batch: R267165 | | |
| Lab ID: G21100025-001ADUP | Sample Duplicate | | | | | | | Run: Varian GC_211005A | |
| Oxygen | 21.564 | Mol % | 0.001 | | | | 0.0 | 10 | 10/05/21 07:19 |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental

Work Order: G21100025

Report Date: 10/05/21

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------------|------------------|-------|------------------------|------|-----------|------------|----------------|----------|------|
| Method: GPA 2261 | | | | | | | Batch: R267165 | | |
| Lab ID: G21100025-001ADUP | Sample Duplicate | | Run: Varian GC_211005A | | | | 10/05/21 07:19 | | |
| Nitrogen | 77.831 | Mol % | 0.001 | | | | 0.0 | 10 | |
| Carbon Dioxide | 0.535 | Mol % | 0.001 | | | | 0.2 | 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 | 0.003 | Mol % | 0.001 | | | | 0.0 | 10 | |
| Hexanes plus | 0.060 | Mol % | 0.001 | | | | 3.4 | 10 | |

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Hall Environmental

G21100025

Login completed by: Chantel S. Johnson

Date Received: 10/1/2021

Reviewed by: Misty Stephens

Received by: mas

Reviewed Date: 10/5/2021

Carrier name: FedEx

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on all shipping container(s)/cooler(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on all sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temp Blank received in all shipping container(s)/cooler(s)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| Container/Temp Blank temperature: | °C | | |
| Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4"). | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Standard Reporting Procedures:

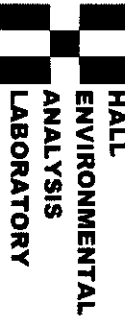
Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

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 results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None



CHAIN OF CUSTODY RECORD

1 1 1

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

| | | | | | |
|---|--------------|---|-------------|------------------------------|----------------------|
| SUB CONTRACTOR: Energy Labs-Gillette | | COMPANY: Energy Laboratories | | PHONE: (866) 686-7175 | FAX: |
| ADDRESS: 400 W Boxelder Rd | | CITY, STATE, ZIP: Gillette, WY 82718 | | ACCOUNT #: | EMAIL: |
| ITEM | SAMPLE | CLIENT SAMPLE ID | BOTTLE TYPE | MATRIX | COLLECTION DATE |
| 1 | 2109H33-0018 | SVE Influent | TEDLAR | Air | 9/29/2021 8:56:00 AM |
| ANALYTICAL COMMENTS | | | | | |
| 1 Natural Gases O2, CO2 | | | | | |

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.

| | | | | | |
|---|------------------------|-----------------------|---|---------------------------------|---------------------------------|
| Relinquished By: Sec | Date: 9/30/2021 | Time: 10:05 AM | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| TAT: Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> | | | New BD <input type="checkbox"/> | 2nd BD <input type="checkbox"/> | 3rd BD <input type="checkbox"/> |
| REPORT TRANSMITTAL DESIRED: | | | FOR LAB USE ONLY | | |
| <input type="checkbox"/> HARDCOPY (extra cost) | | | <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE | | |
| Temp of samples | | | Attempt to Cool? | | |
| Comments: Sec | | | | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H33

14-Oct-21

Client: Animas Environmental Services**Project:** Harvest Trunk S quarterly air sampling

| Sample ID: 2109H33-001adup | | SampType: DUP | | TestCode: EPA Method 8260B: Volatiles | | | | | | |
|-----------------------------------|--------|---------------------------------|-----------|--|------|--------------------|-----------|-------|----------|------|
| Client ID: SVE Influent | | Batch ID: B81738 | | RunNo: 81738 | | | | | | |
| Prep Date: | | Analysis Date: 10/3/2021 | | SeqNo: 2896103 | | Units: µg/L | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 16 | 0.50 | | | | | | 5.31 | 20 | |
| Ethylbenzene | 5.6 | 0.50 | | | | | | 6.00 | 20 | |
| Methyl tert-butyl ether (MTBE) | ND | 0.50 | | | | | | 0 | 20 | |
| 1,2,4-Trimethylbenzene | 1.5 | 0.50 | | | | | | 11.5 | 20 | |
| 1,3,5-Trimethylbenzene | 2.6 | 0.50 | | | | | | 8.38 | 20 | |
| 1,2-Dichloroethane (EDC) | ND | 0.50 | | | | | | 0 | 20 | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | | | | | | 0 | 20 | |
| Naphthalene | ND | 1.0 | | | | | | 0 | 20 | |
| 1-Methylnaphthalene | ND | 2.0 | | | | | | 0 | 20 | |
| 2-Methylnaphthalene | ND | 2.0 | | | | | | 0 | 20 | |
| Acetone | 7.3 | 5.0 | | | | | | 0.914 | 20 | |
| Bromobenzene | ND | 0.50 | | | | | | 0 | 20 | |
| Bromodichloromethane | ND | 0.50 | | | | | | 0 | 20 | |
| Bromoform | ND | 0.50 | | | | | | 0 | 20 | |
| Bromomethane | ND | 1.0 | | | | | | 0 | 20 | |
| 2-Butanone | ND | 5.0 | | | | | | 0 | 20 | |
| Carbon disulfide | ND | 5.0 | | | | | | 0 | 20 | |
| Carbon tetrachloride | ND | 0.50 | | | | | | 0 | 20 | |
| Chlorobenzene | ND | 0.50 | | | | | | 0 | 20 | |
| Chloroethane | ND | 1.0 | | | | | | 0 | 20 | |
| Chloroform | ND | 0.50 | | | | | | 0 | 20 | |
| Chloromethane | ND | 0.50 | | | | | | 0 | 20 | |
| 2-Chlorotoluene | ND | 0.50 | | | | | | 0 | 20 | |
| 4-Chlorotoluene | ND | 0.50 | | | | | | 0 | 20 | |
| cis-1,2-DCE | ND | 0.50 | | | | | | 0 | 20 | |
| cis-1,3-Dichloropropene | ND | 0.50 | | | | | | 0 | 20 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | | | | | | 0 | 20 | |
| Dibromochloromethane | ND | 0.50 | | | | | | 0 | 20 | |
| Dibromomethane | ND | 1.0 | | | | | | 0 | 20 | |
| 1,2-Dichlorobenzene | ND | 0.50 | | | | | | 0 | 20 | |
| 1,3-Dichlorobenzene | ND | 0.50 | | | | | | 0 | 20 | |
| 1,4-Dichlorobenzene | ND | 0.50 | | | | | | 0 | 20 | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | 0 | 20 | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | 0 | 20 | |
| 1,1-Dichloroethene | ND | 0.50 | | | | | | 0 | 20 | |
| 1,2-Dichloropropane | ND | 0.50 | | | | | | 0 | 20 | |
| 1,3-Dichloropropane | ND | 0.50 | | | | | | 0 | 20 | |
| 2,2-Dichloropropane | ND | 0.50 | | | | | | 0 | 20 | |
| 1,1-Dichloropropene | ND | 0.50 | | | | | | 0 | 20 | |

Qualifiers:

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

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

Page 3 of 4

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

WO#: 2109H33

14-Oct-21

Client: Animas Environmental Services
Project: Harvest Trunk S quarterly air sampling

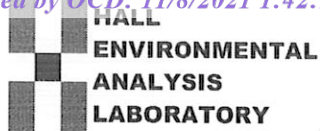
| Sample ID: 2109H33-001adup | | SampType: DUP | | TestCode: EPA Method 8260B: Volatiles | | | | | | |
|-----------------------------------|--------|---------------------------------|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: SVE Influent | | Batch ID: B81738 | | RunNo: 81738 | | | | | | |
| Prep Date: | | Analysis Date: 10/3/2021 | | SeqNo: 2896103 | | Units: µg/L | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Hexachlorobutadiene | ND | 0.50 | | | | | | 0 | 20 | |
| 2-Hexanone | ND | 5.0 | | | | | | 0 | 20 | |
| Isopropylbenzene | 0.75 | 0.50 | | | | | | 7.34 | 20 | |
| 4-Isopropyltoluene | ND | 0.50 | | | | | | 0 | 20 | |
| 4-Methyl-2-pentanone | ND | 5.0 | | | | | | 0 | 20 | |
| Methylene chloride | ND | 1.5 | | | | | | 0 | 20 | |
| n-Butylbenzene | ND | 1.5 | | | | | | 0 | 20 | |
| n-Propylbenzene | 0.89 | 0.50 | | | | | | 8.16 | 20 | |
| sec-Butylbenzene | ND | 0.50 | | | | | | 0 | 20 | |
| Styrene | ND | 0.50 | | | | | | 0 | 20 | |
| tert-Butylbenzene | ND | 0.50 | | | | | | 0 | 20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | | | | | 0 | 20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | | | | | 0 | 20 | |
| Tetrachloroethene (PCE) | ND | 0.50 | | | | | | 0 | 20 | |
| trans-1,2-DCE | ND | 0.50 | | | | | | 0 | 20 | |
| trans-1,3-Dichloropropene | ND | 0.50 | | | | | | 0 | 20 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | | | | | 0 | 20 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | | | | | 0 | 20 | |
| 1,1,1-Trichloroethane | ND | 0.50 | | | | | | 0 | 20 | |
| 1,1,2-Trichloroethane | ND | 0.50 | | | | | | 0 | 20 | |
| Trichloroethene (TCE) | ND | 0.50 | | | | | | 0 | 20 | |
| Trichlorofluoromethane | ND | 0.50 | | | | | | 0 | 20 | |
| 1,2,3-Trichloropropane | ND | 1.0 | | | | | | 0 | 20 | |
| Vinyl chloride | ND | 0.50 | | | | | | 0 | 20 | |
| Xylenes, Total | 91 | 0.75 | | | | | | 7.82 | 20 | |
| Surr: Dibromofluoromethane | 4.6 | | 5.000 | | 91.9 | 70 | 130 | 0 | 0 | |
| Surr: 1,2-Dichloroethane-d4 | 3.8 | | 5.000 | | 75.2 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 6.9 | | 5.000 | | 137 | 70 | 130 | 0 | 0 | S |
| Surr: 4-Bromofluorobenzene | 4.7 | | 5.000 | | 93.3 | 70 | 130 | 0 | 0 | |

Qualifiers:

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

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

Page 4 of 4



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

Sample Log-In Check List

Client Name: Animas Environmental Services

Work Order Number: 2109H33

RcptNo: 1

Received By: Cheyenne Cason

9/30/2021 7:10:00 AM

Handwritten signature

Completed By: Sean Livingston

9/30/2021 10:00:59 AM

Handwritten signature

Reviewed By: *J2 9/30/21*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KPG 9/30/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | NA | Good | | | | |

| | |
|--|--|
| Chain-of-Custody Record | |
| Client: | Animas Environmental Services |
| | |
| Mailing Address: | P.O. Box 8 |
| Farmington, NM 87499-0008 | |
| Phone #: | 720-537-6650 |
| email or Fax#: | aledgerwood@animasenvironmental.com |
| QA/QC Package: | |
| <input checked="" type="checkbox"/> Standard | <input type="checkbox"/> Level 4 (Full Validation) |
| Accreditation: | <input type="checkbox"/> Az Compliance |
| <input type="checkbox"/> NELAC | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> EDD (Type) | |

☒ Standard ☐ Rush

Harvest Trunk S - quarterly air sampling

Harvest Trunk S - quarterly air sampling

Angela Ledgerwood


On Ice: ☐ Yes ☒ No

Cooler Temp(including CF): *NA*

2109 H33

| Date | Time | Matrix | Sample Name |
|---------|------|--------|--------------|
| 9-29-21 | 8:56 | Air | SVE Influent |

| | | | |
|---------|------|-----|--------------|
| 9-29-21 | 8:56 | Air | SVE Influent |
|---------|------|-----|--------------|

| | | |
|---------|-------|---|
| Date: | Time: | Relinquished by: |
| 9/19/20 | 1713 |  |

| | | |
|---------------|------------|---------------------------------------|
| Date: 9/29/20 | Time: 1826 | Relinquished by: <i>Mustin Waller</i> |
|---------------|------------|---------------------------------------|

| | | | |
|--------------------|------|---------|-------|
| Received by: | Via: | Date | Time |
| <i>[Signature]</i> | | 9/29/21 | 17:30 |

Received by: Via: Date: Time:

[illegible]

| |
|----------|
| Remarks: |
|----------|

Please direct-bill this project to BMG.

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.

Photograph Log
Trunk S Release, Rio Arriba County, New Mexico



| | | |
|--|--------------------------|---|
| Photo No.: 1 | Date: 10/28/2021 |  |
| Lat: 36.411788 | Long: -107.180416 | |
| Description: Location of former stockpile of non-impacted soils at Trunk S site. All stockpiled soils have been removed from the site to Harvest's Lybrook facility. | | |
| Photo No.: | Date: | |
| Lat: | Long: | |
| Description: | | |

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 60831

CONDITIONS

| | |
|---|--|
| Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002 | OGRID: 373888 |
| | Action Number: 60831 |
| | Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

CONDITIONS

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