



April 18, 2022

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

Submitted via NMOCD Online Portal

**RE: Q1 2022 Periodic Progress Report
Trunk S Release (January-March 2022)
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 Q1 2022 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 January to March 2022.

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.

624 E. Comanche St., Farmington, NM 87401
PO Box 8, Farmington NM 87499
505-564-2281
www.animasenvironmental.com

Cory Smith NMOCD
Harvest Trunk S Release (3RP-1014; Incident #1931842879)
April 18, 2022; Page 2 of 5

2.0 SVE System Operations and Maintenance (O&M) – 1st Quarter 2022

2.1 SVE O&M

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

- January 22, 2022
- February 23, 2022
- March 23, 2022

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 March 23, 2022, 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 January 22, 2022 site visit, AES took OVM measurements from all five SVE zones. OVM readings from Zones 4 and 5 were low compared to Zones 1, 2, and 3, 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. During this site visit, repairs were made to the damaged assembly on Zone 3.
- At the February 23, 2022 site visit, a valve was noted to be damaged at the top of the Zone 3, possibly from condensation freezing inside the valve. Zone 3 was shut off because of the damaged valve, and Zone 4 remained closed due to low VOC concentrations. Zones 1, 2, and 5 were placed under vacuum.
- At the March 23, 2022 site visit, a temporary repair was made to the Zone 3 valve. The zone vacuum configuration was left unchanged.
- No GAC changeouts were required this quarter. On April 8, 2022, spent GAC was disposed of at WCA Bondad Landfill. The Non-Hazardous Manifest and receipt for disposal are attached.

Cory Smith NMOCD
Harvest Trunk S Release (3RP-1014; Incident #1931842879)
April 18, 2022; Page 3 of 5

2.2 Laboratory Analytical Results

Laboratory analytical results show that SVE influent (combined from all vapor wells) in March 2022 included:

- 8,300 micrograms per liter (µg/L) of total petroleum hydrocarbons (TPH)-GRO;
- 17 µg/L benzene;
- 90 µg/L toluene;
- 7.9 µg/L ethylbenzene;
- 130 µg/L xylenes;
- 21.949% oxygen;
- 77.677% nitrogen; and
- 0.346% carbon dioxide.

GRO concentrations in SVE influent flow decreased from December 2021 (13,000 µg/L). This concentration decrease is likely due reduced VOC concentrations in Zones 1, 2, and 3, which were subjected to increased vacuum when Zones 4 and 5 were closed off. Overall, GRO concentrations have decreased by 95.9% since system startup, and combined benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations have decreased by 93.6% since the system began operations in July 2020. Additionally, carbon dioxide concentrations have decreased 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 – 1st Quarter 2022

An SVE operations summary through March 23, 2022, is presented below:

<i>Trunk S Solar SVE System Operations Summary</i>	
<i>Total SVE system operating hours since system startup (hrs)</i>	7,309
<i>Most recent event SVE system influent PID-OVM reading (ppm)</i>	545
<i>Most recent event Inlet Vacuum (inH₂O)</i>	-10
<i>Most recent event Actual Flow Rate (acfm)</i>	57
<i>Total cumulative standard volume processed since system startup (ft³)</i>	35,613,715

Cory Smith NMOCD
Harvest Trunk S Release (3RP-1014; Incident #1931842879)
April 18, 2022; Page 4 of 5

<i>Trunk S Solar SVE System Operations Summary</i>	
<i>Total estimated petroleum mass removal since system startup (lbs)</i>	<i>86,220</i>
<i>Estimated lbs removed/std ft³ for current reporting period (lbs/std ft³)</i>	<i>0.0011</i>

System operating parameters and corrected mass removal estimates are detailed in Table 2, and Graph 1 shows remediation progress through March 23, 2022.

4.0 Ongoing SVE System Monitoring and Sampling

Harvest 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.

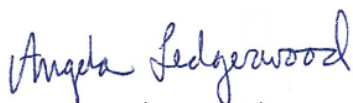
Harvest will submit a quarterly progress report detailing remediation operations to NMOCD. The report will include at a minimum:

- 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.

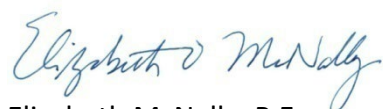
Cory Smith NMOCD
Harvest Trunk S Release (3RP-1014; Incident #1931842879)
April 18, 2022; Page 5 of 5

If you have any questions about site conditions, SVE operations, or this report, please do not hesitate to contact Monica Smith at (505) 632-4625 or msmith@harvestmidstream.com.

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
Non-Hazardous Manifest and Receipt for Disposal of GAC
Laboratory Analytical Reports –
March 23, 2022, Vapor Sampling (Hall No. 2203C65)

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

Shared Documents/Trunk S Release/Reports and Workplans/2022.04.18 Trunk S Periodic Progress Report
Q1 2022.docx

Attachments

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

Date	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Totals Xylenes μg/L	GRO μg/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
14-Dec-21	22	140	10	170	13,000	21.828	0.404
23-Mar-22	17	90	7.9	130	8,300	21.949	0.346

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

Mol% Mole percent

NS Not Sampled

O₂ Oxygen

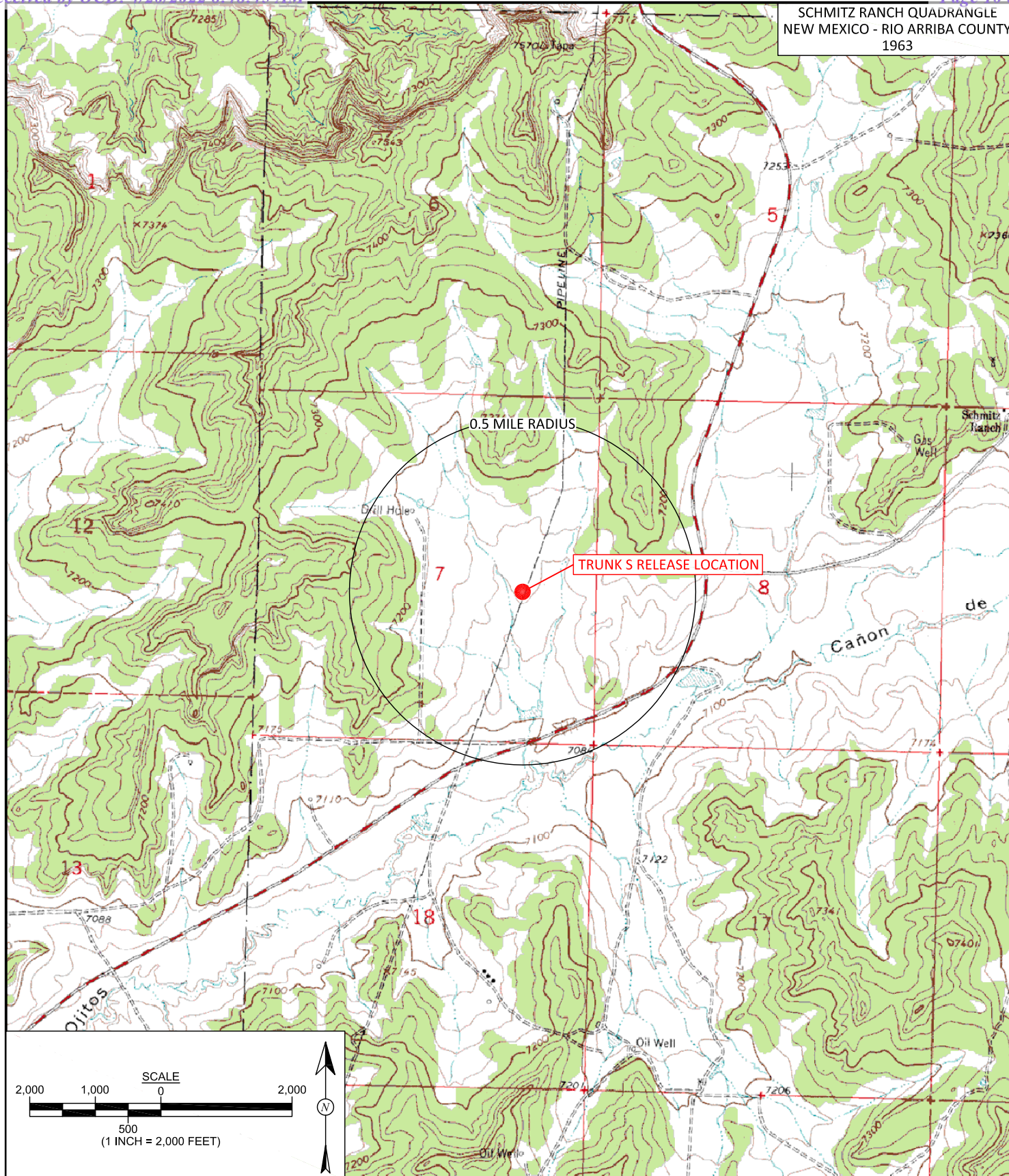
TABLE 2
SVE FIELD OPERATING PARAMETERS and MASS REMOVAL
Harvest Trunk S
Release 3RP-1014, Incident #NCS1931842879

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	0.0031
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
22-Jan-22	555	6,668	748	-10	-0.699	49	60	53	69	1,185,480	NM	--	--
23-Feb-22	587	6,995	655	-11	-0.787	48	52	66	86	1,520,550	NM	--	--
23-Mar-22	615	7,309	545	-10	-0.702	49	54	57	74	1,507,200	8,300	4,499	0.0011
Cumulative Flow										35,613,715		86,220	

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
Notes:												total lbs removed	

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.
8. NM = not measured



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

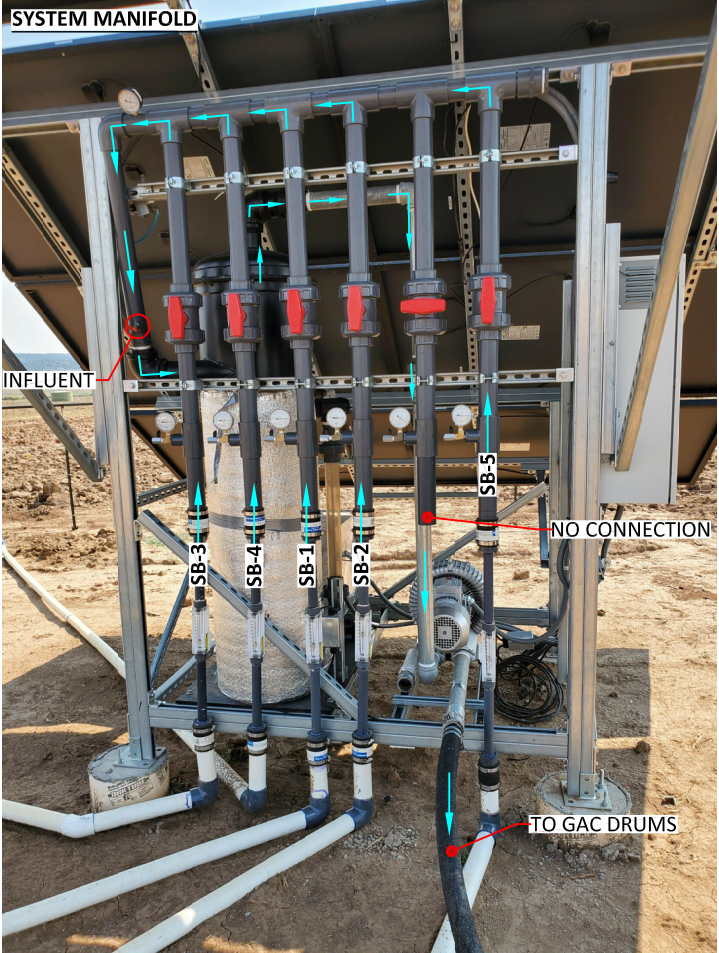
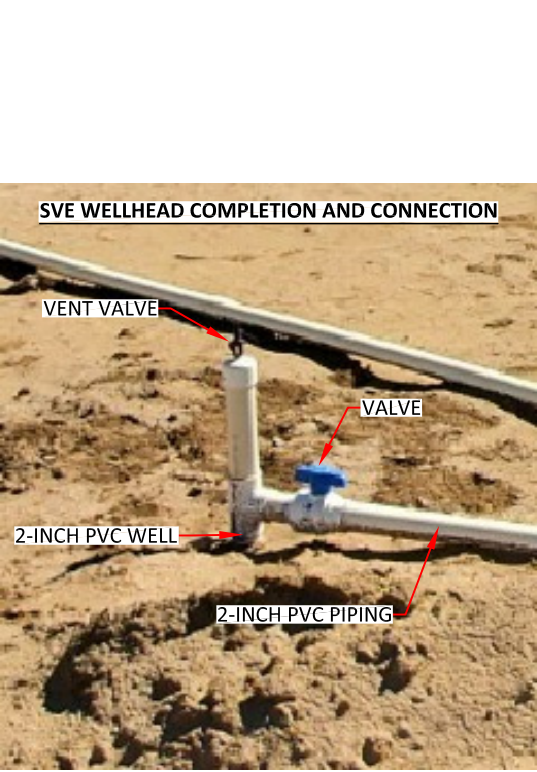
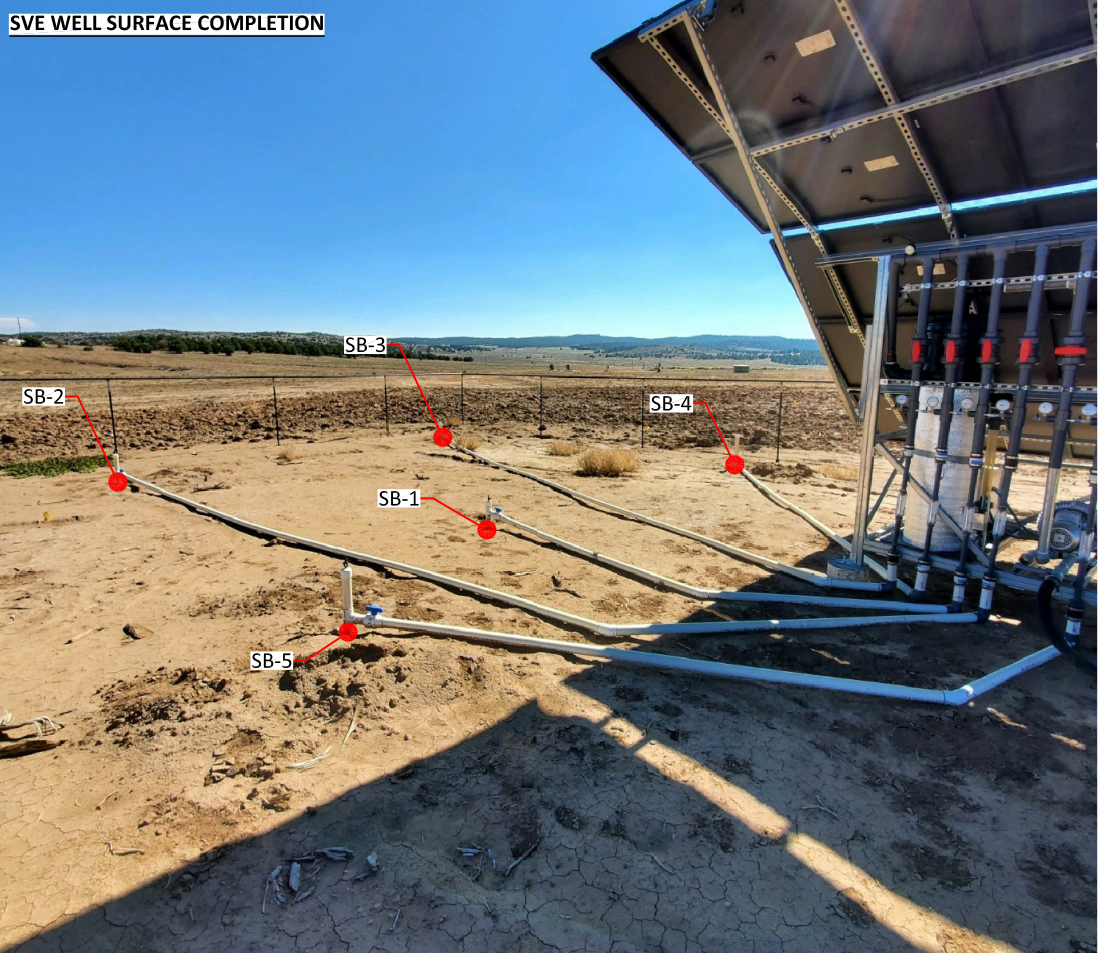
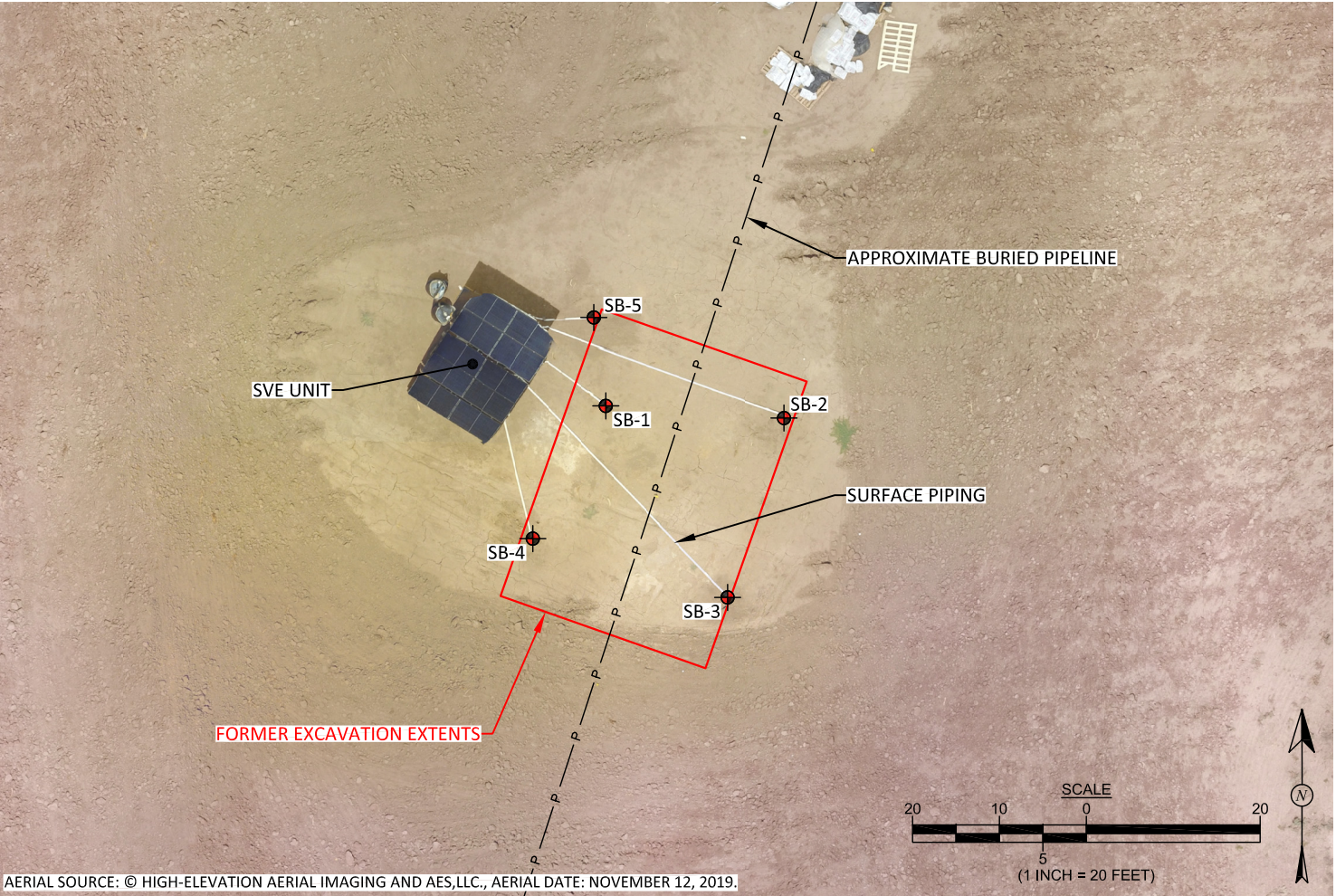
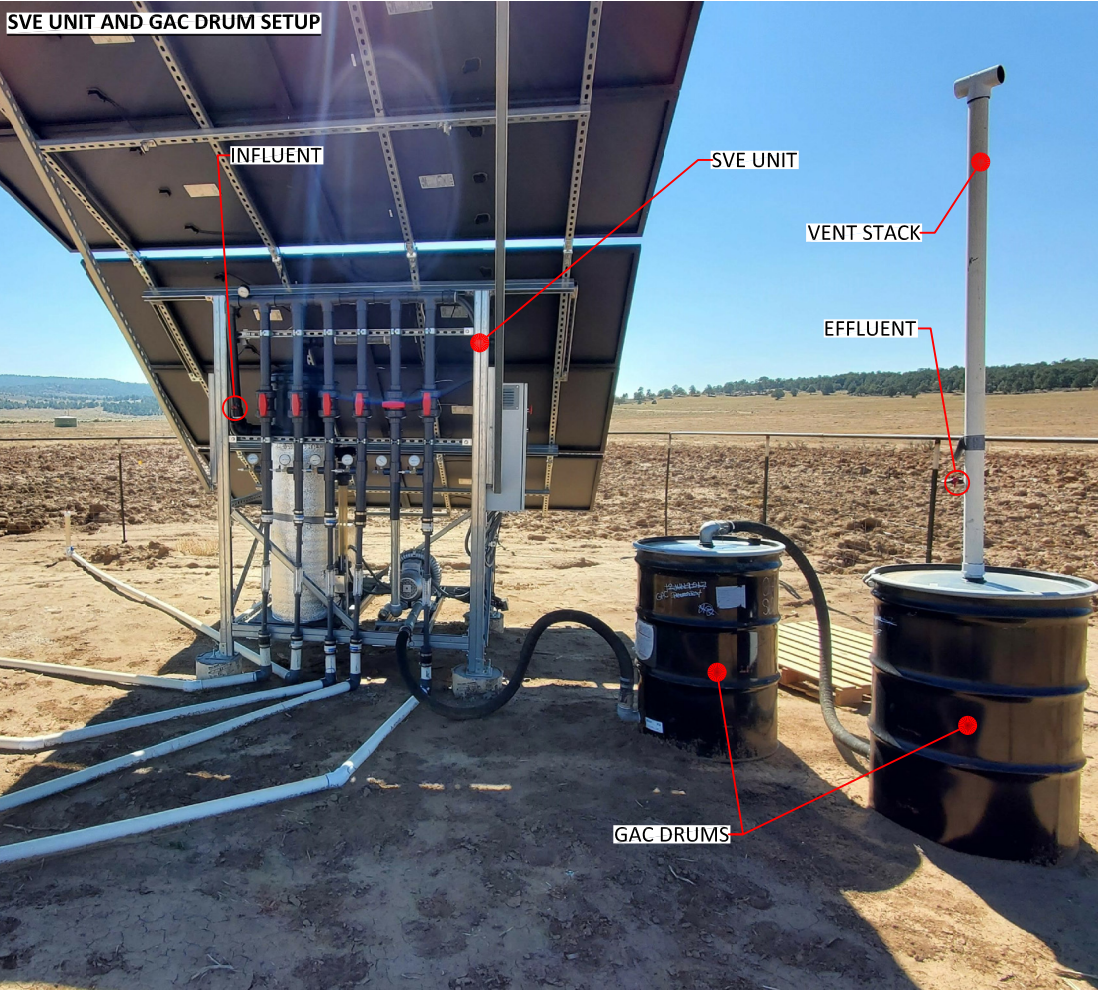


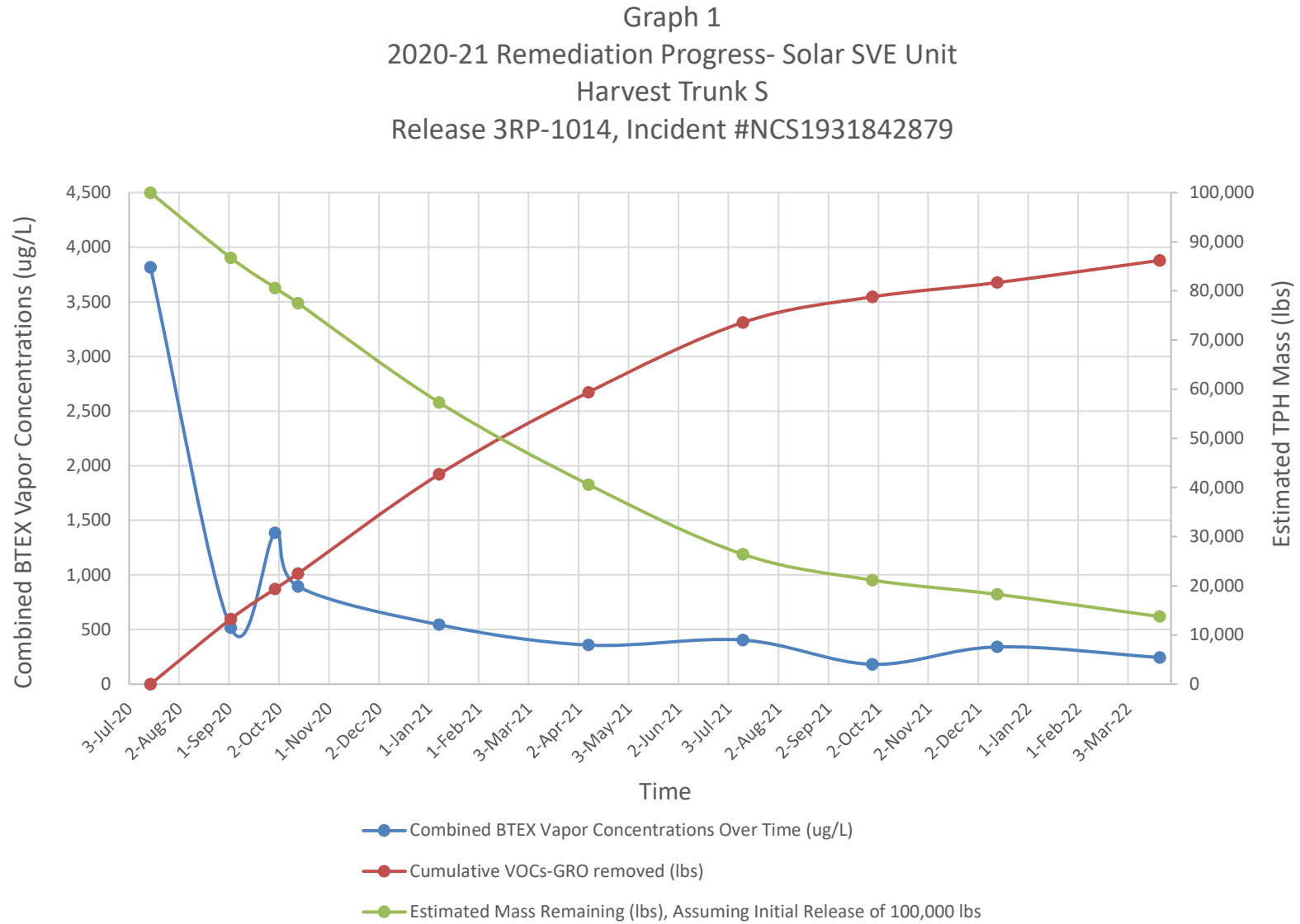
FIGURE 2

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



**NON HAZARDOUS MANIFEST****GENERATOR**

Generator:	Harvest Four Corners, LLC	EPA ID#:	
Address:	P.O. Box 6159 Houston, TX 77208	Shipping Location:	Trunk S Pipeline
		Address:	Rio Arriba County, NM
Phone:	713-209-2400	Phone:	N/A

Description of Waste Materials	Profile Number	Total Qty	Unit of Measure	Container Type
Spent granular activated carbon from SVE system	SW2060	330	gallons	55-gallon drums

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified, and packaged, and are in proper condition for transportation according to applicable law and regulations.

Generator Authorized Agent Name (Print)

Signature

Delivery Date

TRANSPORTER

Transporter Name:	Animas Environmental Services	Driver Name (Print):	
Address:	624 E. Comanche Street Farmington, NM 87401	Truck Number:	
		Truck Type:	
I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.		I hereby acknowledge that the above described materials were received from generator shipping location and were transported without incident to the destination listed below.	
Driver Signature		Shipment Date	Delivery Date

DESTINATION**Mailing Address**

Site Name: Bondad Landfill

Address: PO BOX 215

Bloomfield, NM 87413

Physical Address:

Site Name: Bondad Landfill

Address: 1500 CR 318, Bondad, CO 81301

Phone Number: 1-970-2478295

I hereby acknowledge receipt of the above-described materials.

Name of Authorized Agent (Print):

Signature

Receipt Date

Angela Ledgerwood

From: Monica Smith <msmith@harvestmidstream.com>
Sent: Tuesday, April 05, 2022 3:16 PM
To: Angela Ledgerwood
Subject: RE: [EXTERNAL] FW: Trunk S granular activated carbon waste profile.

Please go ahead and sign.

From: Angela Ledgerwood <aledgerwood@animasenvironmental.com>
Sent: Tuesday, April 5, 2022 2:56 PM
To: Monica Smith <msmith@harvestmidstream.com>
Subject: FW: [EXTERNAL] FW: Trunk S granular activated carbon waste profile.

Good afternoon Monica:

Attached please find the non-hazardous waste manifest for the spent GAC drums from Trunk S. At the bottom of the Generator section, the manifest must be signed by a "Generator Authorized Agent". Would you like to sign this, or would you prefer to authorize Animas to sign it on behalf of Harvest?

Thank you,

Angela Ledgerwood
Animas Environmental Services, LLC
720-537-6650 mobile

From: Craig Hilliard <chilliard@gflenv.com>
Sent: Tuesday, April 05, 2022 1:48 PM
To: Angela Ledgerwood <aledgerwood@animasenvironmental.com>
Subject: RE: [EXTERNAL] FW: Trunk S granular activated carbon waste profile.

Craig Hilliard | Account Manager
GFL Environmental
203 Idaho, Bloomfield, NM, 87413
| C (505) 258-2394 | chilliard@gflenv.com | www.gflenv.com

Confidentiality Notice: This email message (including attachments, if any) is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged, proprietary, confidential and exempt from disclosure. If you are not the intended recipient, you are notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender and erase this email message immediately.

Angela Ledgerwood <aledgerwood@animasenvironmental.com>
Sent: Tuesday, April 5, 2022 1:17 PM
To: Craig Hilliard <chilliard@gflenv.com>
Subject: RE: [EXTERNAL] FW: Trunk S granular activated carbon waste profile.



GREEN CONCEPTS
environmental

WCA Bondad Landfill
PO Box 215
Bloomfield, NM 87413
9702478295

001081
HARVEST MIDSTREAM
PO BOX 61529
HOUSTON, TX 77208

INVOICE
INBOUND

SITE	CELL	OPERATOR	TICKET #	
01		codunn	240863	
TRUCK		CONTAINER	LICENSE	
HARVEST MIDSTREAM				
REFERENCE			IN	OUT
Trunk S Pipeline			4/8/22 10:30 am	4/8/22 10:49 am

CONTRACT: HARVEST MIDSTREAM
BOL:

GROSS 9,560.00LBS Manual In
TARE 8,220.00LBS Manual Out
NET 1,340.00 LBS

QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
0.67	TN	SW_Class III - Non-Haz YD	01	100.00	\$67.71	\$ 0.78	\$136.20
1.00		Energy Recovery Charge		0.00	9.00%	\$ 0.00	\$12.19
1.00		ENVIRONMENTAL CHAR		0.00	13.00%	\$ 0.00	\$17.60

1500 East CR 318, Durango, CO 81301

Colorado Waste Tax (ton)

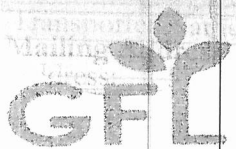
Tax Total
\$0.78

Total \$165.99
Paid \$0.00
Change \$0.00
Check#
Recpt # 0

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: _____

CUSTOMER COPY

GREEN FOR LIFE
environmental

NON HAZARDOUS MANIFEST

240863

GENERATOR

Generator:	Harvest Four Corners, LLC	EPA ID#:	
Address:	P.O. Box 6159 Houston, TX 77208	Shipping Location:	Trunk S Pipeline
		Address:	Rio Arriba County, NM
Phone:	713-209-2400	Phone:	N/A

Description of Waste Materials	Profile Number	Total Qty	Unit of Measure	Container Type
Spent granular activated carbon from SVE system	SW2060	330	gallons	55-gallon drums

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified, and packaged, and are in proper condition for transportation according to applicable law and regulations.

Angela Ledgerwood, agent on behalf of Harvest Four Corners, LLC

Generator Authorized Agent Name (Print)

Angela Ledgerwood

Digitally signed by Angela Ledgerwood
DN: cn=Angela Ledgerwood, o=Animas
Environmental Services, LLC ou,
email=aledgerwood@animasenvironmental.c
om, c=US
Date: 2022.04.05 16:59:35 -05'00'

Signature

Delivery Date

TRANSPORTER

Transporter Name:	Animas Environmental Services	Driver Name (Print):	Jason Oyachi
Address:	624 E. Comanche Street Farmington, NM 87401	Truck Number:	105
		Truck Type:	F150 w/Trailer
I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.		I hereby acknowledge that the above described materials were received from generator shipping location and were transported without incident to the destination listed below.	
Driver Signature	4-8-2022	Driver Signature	4-8-2022
	Shipment Date		Delivery Date

DESTINATION

Mailing Address

Site Name: Bondad Landfill
Address: PO BOX 215
Bloomfield, NM 87413

Physical Address:

Site Name: Bondad Landfill
Address: 1500 CR 318, Bondad, CO 81301
Phone Number: 1-970-2478295

Thereby acknowledge receipt of the above-described materials.

Name of Authorized Agent (Print):

Signature

Receipt Date



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

April 06, 2022

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.: 2203C65

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C65

Date Reported: 4/6/2022

CLIENT: Animas Environmental Services

Client Sample ID: SVE Influent

Project: Harvest Trunk S Quarterly Air Sampling

Collection Date: 3/23/2022 12:32:00 PM

Lab ID: 2203C65-001

Matrix: AIR

Received Date: 3/23/2022 3:53:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	8300	120		µg/L	25	3/31/2022 1:52:00 PM	R86909
Surr: BFB	104	70-130		%Rec	25	3/31/2022 1:52:00 PM	R86909
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	17	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Toluene	90	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Ethylbenzene	7.9	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,2,4-Trimethylbenzene	5.6	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,3,5-Trimethylbenzene	8.0	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,2-Dichloroethane (EDC)	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,2-Dibromoethane (EDB)	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Naphthalene	ND	5.0		µg/L	25	3/31/2022 1:52:00 PM	R86909
1-Methylnaphthalene	ND	10		µg/L	25	3/31/2022 1:52:00 PM	R86909
2-Methylnaphthalene	ND	10		µg/L	25	3/31/2022 1:52:00 PM	R86909
Acetone	ND	25		µg/L	25	3/31/2022 1:52:00 PM	R86909
Bromobenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Bromodichloromethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Bromoform	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Bromomethane	ND	5.0		µg/L	25	3/31/2022 1:52:00 PM	R86909
2-Butanone	ND	25		µg/L	25	3/31/2022 1:52:00 PM	R86909
Carbon disulfide	ND	25		µg/L	25	3/31/2022 1:52:00 PM	R86909
Carbon tetrachloride	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Chlorobenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Chloroethane	ND	5.0		µg/L	25	3/31/2022 1:52:00 PM	R86909
Chloroform	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Chloromethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
2-Chlorotoluene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
4-Chlorotoluene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
cis-1,2-DCE	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
cis-1,3-Dichloropropene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	25	3/31/2022 1:52:00 PM	R86909
Dibromochloromethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Dibromomethane	ND	5.0		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,2-Dichlorobenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,3-Dichlorobenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,4-Dichlorobenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Dichlorodifluoromethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,1-Dichloroethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,1-Dichloroethene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909

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 interference

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C65

Date Reported: 4/6/2022

CLIENT: Animas Environmental Services

Client Sample ID: SVE Influent

Project: Harvest Trunk S Quarterly Air Sampling

Collection Date: 3/23/2022 12:32:00 PM

Lab ID: 2203C65-001

Matrix: AIR

Received Date: 3/23/2022 3:53:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,2-Dichloropropane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,3-Dichloropropane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
2,2-Dichloropropane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,1-Dichloropropene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Hexachlorobutadiene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
2-Hexanone	ND	25		µg/L	25	3/31/2022 1:52:00 PM	R86909
Isopropylbenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
4-Isopropyltoluene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
4-Methyl-2-pentanone	ND	25		µg/L	25	3/31/2022 1:52:00 PM	R86909
Methylene chloride	ND	7.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
n-Butylbenzene	ND	7.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
n-Propylbenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
sec-Butylbenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Styrene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
tert-Butylbenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,1,1,2-Tetrachloroethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,1,2,2-Tetrachloroethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Tetrachloroethene (PCE)	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
trans-1,2-DCE	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
trans-1,3-Dichloropropene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,2,3-Trichlorobenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,2,4-Trichlorobenzene	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,1,1-Trichloroethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,1,2-Trichloroethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Trichloroethene (TCE)	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Trichlorofluoromethane	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
1,2,3-Trichloropropane	ND	5.0		µg/L	25	3/31/2022 1:52:00 PM	R86909
Vinyl chloride	ND	2.5		µg/L	25	3/31/2022 1:52:00 PM	R86909
Xylenes, Total	130	3.8		µg/L	25	3/31/2022 1:52:00 PM	R86909
Surr: Dibromofluoromethane	105	70-130		%Rec	25	3/31/2022 1:52:00 PM	R86909
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	25	3/31/2022 1:52:00 PM	R86909
Surr: Toluene-d8	113	70-130		%Rec	25	3/31/2022 1:52:00 PM	R86909
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	25	3/31/2022 1:52:00 PM	R86909

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

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

Page 2 of 2



ANALYTICAL SUMMARY REPORT

April 05, 2022

Hall Environmental

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

Work Order: G22030422

Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 3/25/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G22030422-001	2203C65-001B;SVE Influent	03/23/22 12:32	03/25/22	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:



Trust our People. Trust our Data.
www.energylab.com

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

LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental
Project: Not Indicated
Client Sample ID: 2203C65-001B;SVE Influent
Location:
Lab ID: G22030422-001

Report Date: 04/05/22
Collection Date: 03/23/22 12:32
Date Received: 03/25/22
Sampled By: Not Provided

Analyses

Result Units Qualifier Method Analysis Date / By

NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT

Oxygen	21.949 Mol %	GPA 2261	04/04/22 13:37 / blb
Nitrogen	77.677 Mol %	GPA 2261	04/04/22 13:37 / blb
Carbon Dioxide	0.346 Mol %	GPA 2261	04/04/22 13:37 / blb
Hydrogen Sulfide	< 0.001 Mol %	GPA 2261	04/04/22 13:37 / blb
Methane	< 0.001 Mol %	GPA 2261	04/04/22 13:37 / blb
Ethane	0.001 Mol %	GPA 2261	04/04/22 13:37 / blb
Propane	< 0.001 Mol %	GPA 2261	04/04/22 13:37 / blb
Isobutane	0.001 Mol %	GPA 2261	04/04/22 13:37 / blb
n-Butane	0.002 Mol %	GPA 2261	04/04/22 13:37 / blb
Isopentane	0.003 Mol %	GPA 2261	04/04/22 13:37 / blb
n-Pentane	0.002 Mol %	GPA 2261	04/04/22 13:37 / blb
Hexanes plus	0.019 Mol %	GPA 2261	04/04/22 13:37 / blb

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

GPM Ethane	< 0.0003 gal/MCF	GPA 2261	04/04/22 13:37 / blb
GPM Propane	< 0.0003 gal/MCF	GPA 2261	04/04/22 13:37 / blb
GPM Isobutane	< 0.0003 gal/MCF	GPA 2261	04/04/22 13:37 / blb
GPM n-Butane	0.0010 gal/MCF	GPA 2261	04/04/22 13:37 / blb
GPM Isopentane	0.0010 gal/MCF	GPA 2261	04/04/22 13:37 / blb
GPM n-Pentane	0.0010 gal/MCF	GPA 2261	04/04/22 13:37 / blb
GPM Hexanes plus	0.0080 gal/MCF	GPA 2261	04/04/22 13:37 / blb
GPM Pentanes plus	0.0100 gal/MCF	GPA 2261	04/04/22 13:37 / blb
GPM Total	0.0110 gal/MCF	GPA 2261	04/04/22 13:37 / blb

CALCULATED PROPERTIES

Calculation Pressure Base	14.730 psia	GPA 2261	04/04/22 13:37 / blb
Calculation Temperature Base	60 °F	GPA 2261	04/04/22 13:37 / blb
Compressibility Factor, Z	1.0000 unitless	GPA 2261	04/04/22 13:37 / blb
Molecular Weight	28.96 unitless	GPA 2261	04/04/22 13:37 / blb
Pseudo-critical Pressure, psia	548 psia	GPA 2261	04/04/22 13:37 / blb
Pseudo-critical Temperature, deg R	240 deg R	GPA 2261	04/04/22 13:37 / blb
Specific Gravity (air=1.000)	1.003 unitless	GPA 2261	04/04/22 13:37 / blb
Gross BTU per cu ft @ std cond, dry	1.30 BTU/cu ft	GPA 2261	04/04/22 13:37 / blb
Gross BTU per cu ft @ std cond, wet	1.28 BTU/cu ft	GPA 2261	04/04/22 13:37 / blb

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

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



Trust our People. Trust our Data.
www.energylab.com

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

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental

Work Order: G22030422

Report Date: 04/05/22

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261							Analytical Run: R270178		
Lab ID: ICV-2204041313	Initial Calibration Verification Standard						04/04/22 13:12		
Oxygen	0.392	Mol %	0.001	98	75	110			
Nitrogen	5.176	Mol %	0.001	103	90	110			
Carbon Dioxide	4.906	Mol %	0.001	99	90	110			
Hydrogen Sulfide	0.127	Mol %	0.001	128	100	136			
Methane	73.195	Mol %	0.001	100	90	110			
Ethane	5.000	Mol %	0.001	101	90	110			
Propane	4.997	Mol %	0.001	100	90	110			
Isobutane	1.974	Mol %	0.001	98	90	110			
n-Butane	1.959	Mol %	0.001	97	90	110			
Isopentane	0.980	Mol %	0.001	98	90	110			
n-Pentane	0.991	Mol %	0.001	99	90	110			
Hexanes plus	0.303	Mol %	0.001	100	90	110			
Lab ID: CCV-2204041318	Continuing Calibration Verification Standard						04/04/22 13:17		
Oxygen	0.618	Mol %	0.001	103	90	110			
Nitrogen	1.330	Mol %	0.001	95	85	110			
Carbon Dioxide	0.956	Mol %	0.001	96	90	110			
Hydrogen Sulfide	0.025	Mol %	0.001	100	70	130			
Methane	93.498	Mol %	0.001	100	90	110			
Ethane	1.016	Mol %	0.001	102	90	110			
Propane	1.010	Mol %	0.001	101	90	110			
Isobutane	0.496	Mol %	0.001	99	90	110			
n-Butane	0.496	Mol %	0.001	99	90	110			
Isopentane	0.200	Mol %	0.001	100	90	110			
n-Pentane	0.201	Mol %	0.001	100	90	110			
Hexanes plus	0.154	Mol %	0.001	103	90	110			
Lab ID: CCV-2204041410	Continuing Calibration Verification Standard						04/04/22 14:11		
Oxygen	0.629	Mol %	0.001	105	90	110			
Nitrogen	1.366	Mol %	0.001	98	85	110			
Carbon Dioxide	0.954	Mol %	0.001	95	90	110			
Hydrogen Sulfide	0.025	Mol %	0.001	100	70	130			
Methane	93.469	Mol %	0.001	100	90	110			
Ethane	1.012	Mol %	0.001	101	90	110			
Propane	1.007	Mol %	0.001	101	90	110			
Isobutane	0.493	Mol %	0.001	98	90	110			
n-Butane	0.493	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	0.153	Mol %	0.001	102	90	110			
Method: GPA 2261							Batch: R270178		
Lab ID: G22030422-001ADUP	Sample Duplicate						Run: Varian GC_220404A		
Oxygen	21.948	Mol %	0.001				0.0	10	04/04/22 13:42

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Trust our People. Trust our Data.
www.energylab.com

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

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental

Work Order: G22030422

Report Date: 04/05/22

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261							Batch: R270178		
Lab ID: G22030422-001ADUP	Sample Duplicate		Run: Varian GC_220404A				04/04/22 13:42		
Nitrogen	77.676	Mol %	0.001				0.0	10	
Carbon Dioxide	0.347	Mol %	0.001				0.3	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	0.020	Mol %	0.001				5.1	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Trust our People. Trust our Data.
www.energylab.com

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

G22030422

Login completed by: Chantel S. Johnson

Date Received: 3/25/2022

Reviewed by: Misty Stephens

Received by: csj

Reviewed Date: 3/28/2022

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:

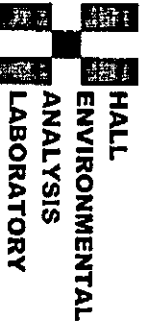
Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

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.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None



CHAIN OF CUSTODY RECORD

PAGE: 1 OF 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		ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: Gillette, WY 82718					
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE
1	2203C65-001B	SVE Influent	TEDLAR	Air	3/23/2022 12:32:00 PM
					# CONTAINERS: 1 O2, CO2
ANALYTICAL COMMENTS					

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: <i>ca</i>	Date: 3/23/2022	Time: 4:50 PM	Received By: <i>Shantel Johnson</i>	Date: 3/23/2022	Time: 12:32 PM
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: <i>Standard</i>	RLSH	Next BD	2nd BD	3rd BD	
HARDCOPY (extra cost)			REPORT TRANSMITTAL DESIRED		
FAX			EMAIL		
ONLINE					
FOR LAB USE ONLY					
Temp of samples: <i>5</i>					
Attempt to Cool? <i>Yes</i>					
Comments: <i>Fed OK Custody Seal</i>					

Sample Log-In Check List

Client Name: Animas Environmental Services

Work Order Number: 2203C65

RcptNo: 1

Received By: Cheyenne Cason 3/23/2022 12:32:00 PM

Completed By: Cheyenne Cason 3/23/2022 4:48:28 PM

Reviewed By: KPG 3/24/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: TME 3/24/22

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

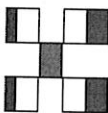
Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]Remarks:[illegible]

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.

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 100121

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 100121
	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