NM2-4

2023 Annual Report

BMG Landfarm

OGRID: 2096

Facility ID: fEEM0112331470

March 5, 2024

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: 2023 Landfarm Annual Monitoring and Sampling Report
Permit # NM-02-0004
BMG's Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Dear Mr. Jones:

Between March and November 2023, Animas Environmental Services, LLC (AES) completed quarterly evaporation pond groundwater monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility (Landfarm), which is in the NW¼ NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico. In addition, AES conducted soil sampling in August and November 2023 in accordance with 19.15.36.15 NMAC for treatment zone (TZ) soils and 19.15.26.20.A and 19.15.36.15 NMAC for vadose zone (VZ) soils.

A separate VZ confirmation sampling event was conducted in April-May 2023 and was summarized in the *Vadose Zone Confirmation Sample Results and Response Action Plan* report submitted in June 2023.

1.0 Site History

1.1 2008 Site Investigation

In April 2008, AES personnel confirmed the presence of liquid within the interstitial well at the Landfarm evaporation pond of the BMG Surface Waste Management Facility. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with ongoing Landfarm sampling. BMG installed a replacement

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www.animasenvironmental.com

69-mil high density polyethylene (HDPE) primary liner over the existing secondary liner in late September 2008.

1.2 Monitoring and Sampling, 2014 to 2022

Prior to 2022, AES personnel conducted quarterly groundwater and soil sampling at the facility between March 2014 and November 2022.

1.2.1 Background Sampling

On December 2, 2014, at the request of and in consultation with Brad Jones of the NMOCD, AES personnel collected three background soil composite samples which were intended to establish background conditions for VZ soils. These samples were collected from separate locations found outside active operations areas at the Landfarm. Note that when the Landfarm was originally permitted, background sampling consisted of a limited list of parameters.

Proposed background threshold concentrations were provided via email by Jim Griswold of NMOCD on October 7, 2016, and were subsequently accepted by BMG. Verbal confirmation by NMOCD of the proposed background action levels was made in June 2018. These action levels as well as background sample locations and concentrations were included in the 2014 through 2018 sampling reports.

1.2.2 Evaporation Pond Groundwater Monitoring and Sampling

Groundwater analytical results from monitor wells MW-1 through MW-4 (located around the evaporation pond) have remained below laboratory detection limits for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH) for all sampling events between 2014 and 2022.

1.2.3 Landfarm Treatment Zone Sampling

Landfarm TZ samples had TPH concentrations below NMOCD Closure Action Levels for all events in Cells 1 and 4 and for several events in Cells 2 and 3. Chloride concentrations were below the applicable NMOCD Closure Action Level for all sampling events between 2014 and 2022.

1.2.4 Landfarm Vadose Zone Sampling

VZ analytical results reported concentrations exceeding the NMOCD approved background threshold concentrations in all cells for various parameters, including TPH and chlorides. Additional exceedances have also been noted for fluoride, nitrate, sulfate, arsenic, barium, chromium, copper, iron, lead, manganese, and zinc.

2.0 Evaporation Pond Groundwater Monitoring and Sampling, Q1 through Q4 2023

In accordance with the 2008 Sampling and Analysis Plan, groundwater monitoring and sampling of the evaporation pond monitor wells MW-1 through MW-4 (located around the perimeter of the evaporation pond) was conducted on:

- Q1 – March 17, 2023;
- Q2 – June 21, 2023;
- Q3 – August 23, 2023; and,
- Q4 – November 29, 2023.

Samples were not collected from the interstitial well due to low yield.

All groundwater samples were submitted for laboratory analysis at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for the following parameters:

- BTEX per USEPA Method 8260 or 8021B or 8260B;
- TPH – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) per USEPA Method 8015B;
- Chlorides per USEPA Method 300.0; and,
- Total Dissolved Solids (TDS) – Standard Method 2540C.

Note that Hall was acquired in November 2023 and is now Eurofins Environmental Testing South Central, LLC of Albuquerque, New Mexico (Eurofins).

2.1 Groundwater Measurement Data

Prior to sample collection from the groundwater monitor wells, AES measured depth to water and recorded temperature, conductivity, dissolved oxygen (DO), pH, and oxidation reduction potential (ORP) for each well. The initial depth to water in the interstitial well was measured, then the well was bailed to remove any accumulated water. The depth to water was checked two more times during the sampling event to confirm that there was no recharge in the interstitial well. All data was recorded on Water Sample Collection Forms. A summary of water quality data is included in Table 1, water depths are found in Graphs 1 through 4, and Water Sample Collection Forms are included in the Appendix.

2.2 Laboratory Analytical Results

All laboratory analytical results for MW-1 through MW-4 during each sampling event were below laboratory detection limits for BTEX and TPH (GRO, DRO, and MRO).

Chloride concentrations ranged from 48 milligrams per liter (mg/L) in MW-1 in March 2023 to 410 mg/L in November 2023 in MW-3. TDS levels varied from 638 mg/L in MW-4 in June 2023 to 1,240 mg/L in MW-3 in November. Laboratory analytical results for the monitor well groundwater samples are presented on Table 2, Graphs 1 through 4, and on Figure 1. Groundwater analytical laboratory reports are attached.

3.0 Landfarm Treatment Zone Sampling 2023

Although treatment zones in Cells 1 and 4 have met closure criteria specified in NMAC 19.15.36.15.F, BMG continued to sample these cells in 2023. BMG continues to till Cells 2 and 3 on a regular basis. Additionally, BMG has not added any contaminated soil to any of the Landfarm cells for at least 15 years, and a *Closure/Post-Closure Plan and Exception Request* for the facility was submitted on January 16, 2024.

3.1 Treatment Zone Sampling

In accordance with 19.15.36.15.D NMAC, on August 23, 2023 AES personnel resumed semi-annual collection of composite soil samples from the TZ from Cells 1 through 4 on August 23, 2023. Four discrete samples were collected from randomly selected locations in each cell and then composited to form one sample per cell. The samples were collected from 0.5- to 1-foot below the TZ surface. Sampling dates, periods, sample IDs, and analysis parameters are included as follows:

Treatment Zone Soil Sampling

Cells Sampled	Sampling Date	Sampling Period	Sample ID	Parameter(s) and USEPA Method(s)
1-4	August 23, 2023	SA2 2023	Cell #1 TZ CS-1, Cell #2 TZ CS-1, Cell #3 TZ CS-1, Cell #4 TZ CS-1,	TPH GRO/DRO/MRO per Method 8015 M/D; Chloride per Method 300.0

3.2 Treatment Zone Analytical Results

3.2.1 August 2023

For the August 2023 sampling event, TPH and chloride laboratory analytical results were below NMOCD Closure Action Levels (19.15.36.15.F.1-4 NMAC) in all cells. Results are tabulated in Table 3, sample locations are presented on Figure 2, and laboratory analytical reports are included in the Appendix.

4.0 Landfarm Vadose Zone

In April and May 2023, AES performed an extensive sampling event for VZ soils in all four cells. The purpose of the VZ sampling was to address exceedances detected in periodic VZ sampling events between 2014 and 2022, which were reported to the NMOCD in a letter dated April 20, 2023. The results of this sampling event were reported to the NMOCD in the report titled *Vadose Zone Confirmation Sample Results and Response Action Plan,* dated June 6, 2023. The following sections describe the routine, periodic sampling events that were conducted in 2023.

4.1 Vadose Zone Sampling

In accordance with 19.15.36.20.A NMAC (Transitional Provisions) for the existing permit and 19.15.36.15.E.2 NMAC, AES personnel resumed quarterly, semi-annual, and annual collection of samples from the VZ in August 2023.

4.1.1 Quarterly Sampling

The permit and the transitional provisions outlined in NMAC 19.15.36.20.A specify quarterly sampling of the VZ at the facility. Samples are to consist of one random, discrete sample from each cell, which are to be analyzed for TPH and BTEX. AES collected quarterly samples on November 29, 2023, from each of the four cells (Cells #1 through #4) at depths of approximately 4.25 to 4.5 feet below the top of native ground surface. Each sample collection point was filled in with bentonite following sampling. The sampling date, period, cells, IDs, and analysis parameters are presented below.

4.1.1 Semi-Annual Sampling

19.15.36.15.E.2 NMAC requires semi-annual sampling of the VZ. Samples are to consist of four randomly selected, independent samples, which are to be analyzed for TPH, BTEX, and chlorides. AES collected semi-annual samples on August 23, 2023, from each of the four cells (Cells #1 through #4) at depths of approximately 4.25 to 4.5 feet below the top of native ground surface. Each sample collection point was filled in with bentonite following sampling. The sampling date, period, cells, IDs, and analysis parameters are presented below.

4.1.2 Annual Sampling

The permit and transitional provisions in NMAC 19.15.36.20 require annual sampling of the VZ, consisting of four randomly selected, independent samples to be analyzed for major cations/anions and Resource Conservation and Recovery Act (RCRA) 8 metals. The exceedance sampling event conducted in April and May 2023 fulfilled this requirement for 2023.

Vadose Zone Exceedance Confirmation, Quarterly, Semi-Annual, and Annual Sampling

Sampling Period	Sampling Date	Sample ID	Parameter(s) and USEPA Method(s)
Q2/SA1/Annual 2023/Exceedance Confirmation	April 24-May 2, 2023	94 discrete sample locations from Cells #1-4	TPH per Method 418.1; Chloride, fluoride, nitrite, nitrate, and sulfate per Method 300.0; Ethylene dibromide per Method 8011/504.1; Phenols per Method 9066; Radium-226 and radium-228 per Method 901.1; Mercury per Method 7471B; Volatile organic compounds (VOCs), including BTEX, per Method 8260B; pH per Method 9040C; Metals per Method 6010B/6020A; Polychlorinated biphenyls (PCBs) per Method 8082A; Cyanide per Method 9012B; Semivolatile organic compounds (SVOCs) per Method 8270-SIM
Q3/SA2 2023	August 29, 2023	Cell #1 VZ DS-1 Cell #2 VZ DS-1 Cell #3 VZ DS-1 Cell #4 VZ DS-1	TPH GRO/DRO/MRO per Method 8015 M/D; BTEX per Method 8021; Chlorides per Method 300.0
Q4 2023	November 29, 2023	Cell #1 VZ DS-1 Cell #2 VZ DS-1 Cell #3 VZ DS-1 Cell #4 VZ DS-1	TPH GRO/DRO/MRO per Method 8015 M/D

Vadose zone laboratory analytical results from 2023 are summarized in Table 4. Sample locations are presented on Figure 3. Laboratory reports are presented in the Appendix.

4.2 Vadose Zone Sampling Results

- BTEX – concentrations below laboratory detection limits in all samples;
- TPH (as GRO/DRO/MRO) – no exceedances in all samples;
- and
- Chloride – Cell #1 (290 mg/kg) exceedance in August.

The chloride exceedance detected in the sample from Cell #1 fits the pattern for chloride that is discussed in Section 6.1 of the January 2024 *Closure/Post-Closure Plan and Exception Request* for the facility. AES recommends that this chloride exceedance be treated as an outlier.

5.0 Conclusions and Recommendations

5.1 Conclusions

AES personnel conducted periodic groundwater and landfarm sampling at the BMG Surface Waste Management Facility in 2023. The interstitial well was also monitored for any indications of leaking from the evaporation pond.

Groundwater elevations at the site have remained relatively stable, with depth to groundwater at approximately 40 feet bgs. Laboratory analytical results from monitor wells MW-1 through MW-4 (located around the evaporation pond) have remained below laboratory detection limits for BTEX and TPH for all sampling events in 2023. Note that chloride concentrations have increased steadily over time in MW-3, with the highest concentration reported at 410 mg/L in November 2023; however, chloride concentrations have varied in MW-1, MW-2 and MW-4, appearing to have peaked in 2016 (MW-4) and 2019 (MW-1 and MW-2). Chloride concentrations in these wells were reported at 55 mg/L, 150 mg/L, and 110 mg/L, respectively, in November 2023.

Landfarm treatment zone samples had TPH, BTEX, and chloride concentrations below NMOCD Closure Action Levels in all cells.

Vadose zone analytical results reported concentrations exceeding the NMOCD approved background threshold concentration for chlorides in Cell #1.

5.2 Recommendations and Scheduled Activities

AES prepared and submitted a *Landfarm Closure/Post-Closure Plan and Exception Request* to NMOCD on January 10, 2024. As stated therein, the Closure/Post-Closure Plan is only for the landfarm portion of the facility, as BMG intends to continue using the existing evaporation pond. The exception request proposes alternative closure standards for several constituents present in the soils of the treatment zone and vadose zone.

Monitoring and sampling events are tentatively scheduled for February, May, August, and November 2024. The February sampling event will cover quarterly sampling for the monitor wells, quarterly monitoring of the interstitial well, semi-annual sampling of the treatment zone, and quarterly, semi-annual, and annual sampling parameters of the vadose zone.

If you have any questions regarding the site conditions or sampling results, please do not hesitate to contact Angela Todd at (720) 537-6650 or Elizabeth McNally at (505) 564-2281.

Sincerely,

Angela Todd, CHMM, PMP
Senior Project Manager

Elizabeth McNally, P.E.
Principal

Tables

Figures

Graphs

Appendix

Cc: Matt Dimond
Benson-Montin-Greer Drilling Corporation
4900 College Blvd
Farmington, NM 87402

Tables

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Water Level Elevation (ft amsl)	Temp. (˚C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	17-Mar-23	NS	39.00	-39.00	12.9	3.025	6.1	7.5	67.0
MW-1	21-Jun-23	NS	39.00	-39.00	13.8	1.153	7.2	7.1	57.7
MW-1	23-Aug-23	NS	39.13	-39.13	14.6	1.143	4.80	7.19	102.6
MW-1	29-Nov-23	NS	39.32	-39.32	12.7	1.107	4.19	7.17	110.3
MW-2	17-Mar-23	NS	40.08	-40.08	12.8	2.003	7.6	7.6	82.6
MW-2	21-Jun-23	NS	40.05	-40.05	12.4	1.149	8.9	7.4	69.2
MW-2	23-Aug-23	NS	40.18	-40.18	12.8	1.198	6.46	7.53	57.7
MW-2	29-Nov-23	NS	40.39	-40.39	11.6	1.252	5.21	7.21	111.8
MW-3	17-Mar-23	NS	39.39	-39.39	13.2	2.121	5.8	7.3	79.1
MW-3	21-Jun-23	NS	39.34	-39.34	13.6	1.847	8.4	7.3	69.5
MW-3	23-Aug-23	NS	39.48	-39.48	14.2	1.928	4.22	7.26	102.9
MW-3	29-Nov-23	NS	39.67	-39.67	12.0	2.029	3.25	7.05	98.7
MW-4	17-Mar-23	NS	39.84	-39.84	13.1	3.161	5.7	7.4	80.4
MW-4	21-Jun-23	NS	39.82	-39.82	12.8	1.174	7.3	7.2	61.7
MW-4	23-Aug-23	NS	39.99	-39.99	13.0	1.293	5.14	7.24	97.0
MW-4	29-Nov-23	NS	40.17	-40.17	12.6	1.243	3.77	7.08	90.7
Interstitial Well	17-Mar-23	NS	11.12	-11.12	NM - Insufficient Water				
Interstitial Well	23-Aug-23	NS	10.11	-10.11	NM - Insufficient Water				
Interstitial Well	29-Nov-23	NS	10.63	-10.63	NM - Insufficient Water				

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Total TPH (mg/L)	Chloride (mg/L)	TDS (mg/L)
MW-1	17-Mar-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	48	800
MW-1	21-Jun-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	60	666
MW-1	23-Aug-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	49	654
MW-1	29-Nov-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	55	740
MW-2	17-Mar-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	140	722
MW-2	21-Jun-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	130	700
MW-2	23-Aug-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	140	726
MW-2	29-Nov-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	150	704
MW-3	17-Mar-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	280	1,040
MW-3	21-Jun-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	310	1,120
MW-3	23-Aug-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	310	1,210
MW-3	29-Nov-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	410	1,240
MW-4	17-Mar-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	84	720
MW-4	21-Jun-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	110	638
MW-4	23-Aug-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	150	720
MW-4	29-Nov-23	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	<6.1	110	723

Notes:

<	**Analyte not detected above listed laboratory reporting limit.**
NA	**Not Analyzed**
NE	**Not Established**
MTBE	**Methyl-tert butyl ether**
TPH	**Total Petroleum Hydrocarbons**

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Total TPH (mg/L)	Chloride (mg/L)	TDS (mg/L)

GRO **Gasoline Range Organics**
DRO **Diesel Range Organics**
MRO **Motor Oil Range Organics**

*** NMED Groundwater Screening Level for Total TPH taken from *Risk Assessment Guidance for Site Investigations and* Screening Level for Unknown Oil. Remediation Volume I, Table 6-4 (November 2022), Groundwater**

TABLE 3
TREATMENT ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

Treatment Zone Cell	Date	TPH (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	Chloride (mg/kg)
Method		418.1	8015	8015D	8015D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0
NMOCD Closure Action Levels (NMAC 19.15.36.15)		2,500	2,500 GRO/DRO/MRO 500 GRO/DRO			0.2 (Benzene) / 50 (BTEX)				500
1	23-Aug-23	NM	<4.9	110	210	NM	NM	NM	NM	<60
2	23-Aug-23	NM	<4.8	200	340	NM	NM	NM	NM	<60
3	23-Aug-23	NM	<4.7	170	300	NM	NM	NM	NM	<60
4	23-Aug-23	NM	<4.9	39	60	NM	NM	NM	NM	<61

Notes:
< Analyte not detected above listed method limit
NM Not Measured
TPH Total Petroleum Hydrocarbons

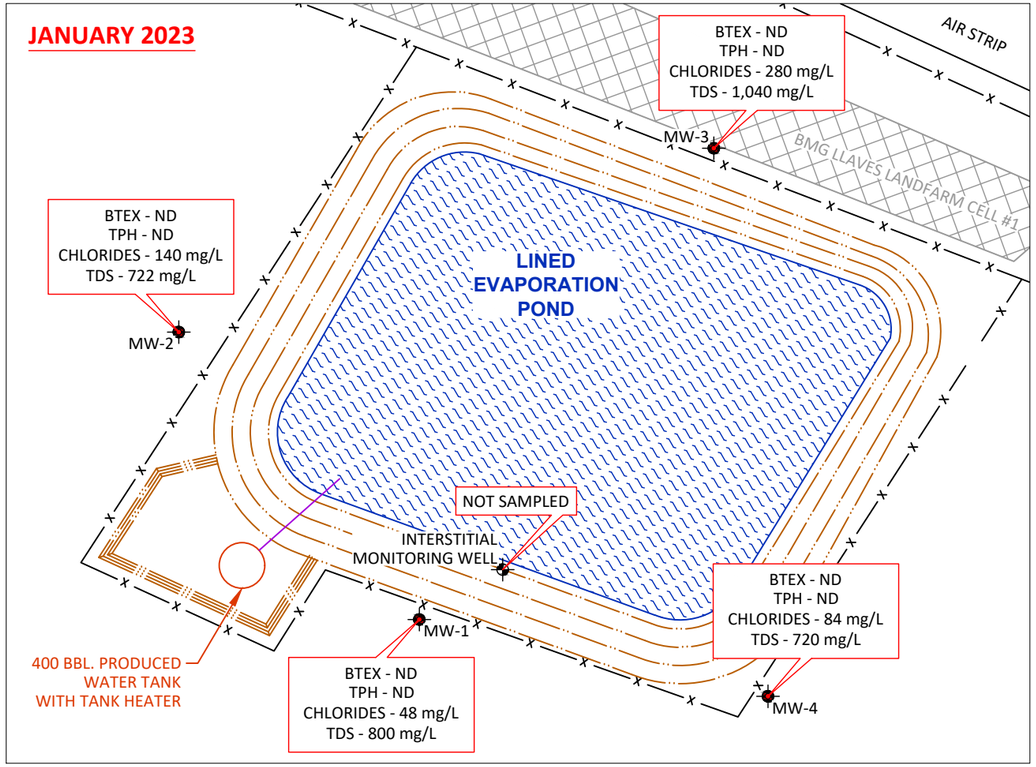
TABLE 4
VADOSE ZONE SOIL ANALYTICAL RESULTS
BMG Landfarm, Rio Arriba County, New Mexico

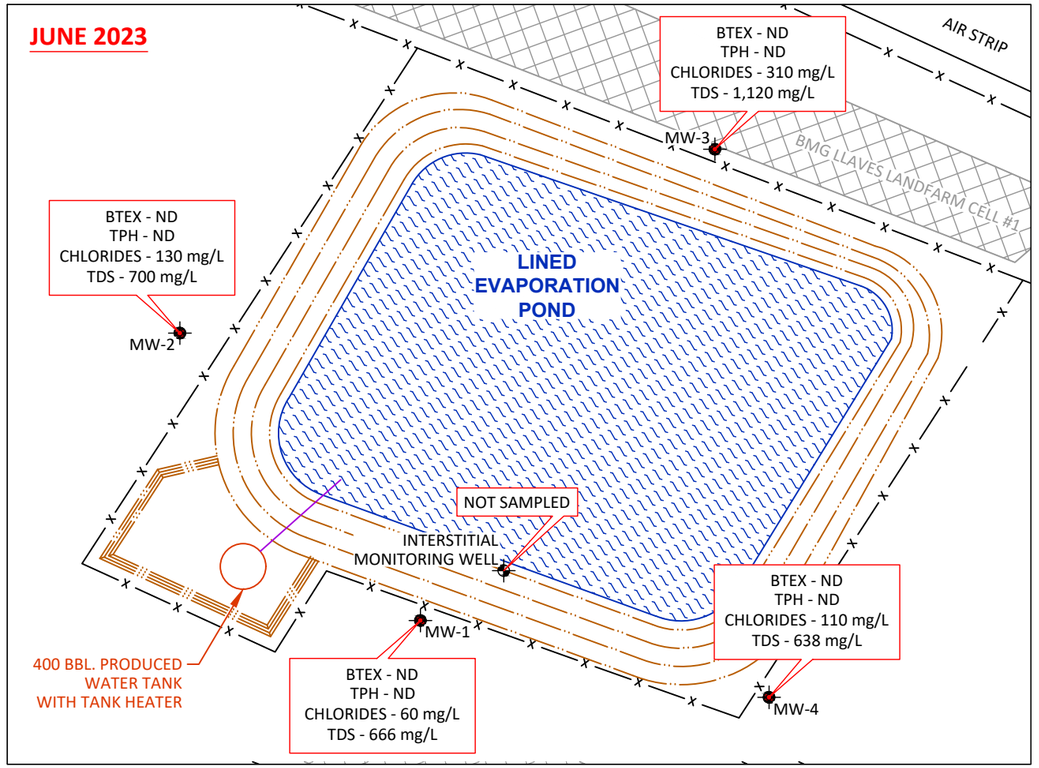
Cell #	Vadose Zone Sample ID	Date	Total TPH mg/kg	TPH GRO mg/kg	TPH DRO mg/kg	TPH MRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Total Xylenes mg/kg	Chloride mg/kg
1	**Cell #1 DS-1**	23-Aug-23	NM	<5.0	<9.5	<47	<0.025	<0.050	<0.050	<0.10	**290**
1	**Cell #1 DS-1**	29-Nov-23	NM	<4.7	<9.5	<48	NM	NM	NM	NM	NM
2	**Cell #2 DS-1**	23-Aug-23	NM	<4.8	24	<49	<0.024	<0.048	<0.048	<0.096	<60
2	**Cell #2 DS-1**	29-Nov-23	NM	<4.8	<10	<50	NM	NM	NM	NM	NM
3	**Cell #3 DS-1**	23-Aug-23	NM	<4.8	<9.3	<47	<0.024	<0.048	<0.048	<0.095	<60
3	**Cell #3 DS-1**	29-Nov-23	NM	<4.9	<9.9	<50	NM	NM	NM	NM	NM
4	**Cell #4 DS-1**	23-Aug-23	NM	<4.7	<9.4	<47	<0.023	<0.047	<0.047	<0.094	<60
4	**Cell #4 DS-1**	29-Nov-23	NM	<4.6	<8.5	<42	NM	NM	NM	NM	NM

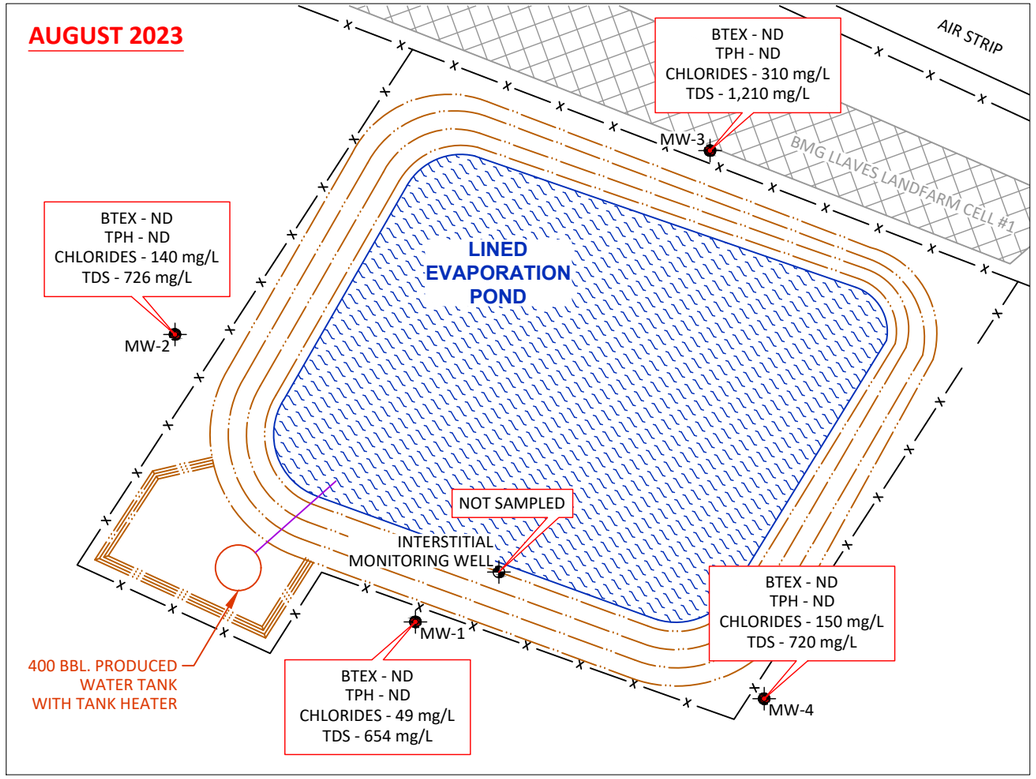
Notes:

<	Analyte not detected above given laboratory reporting limit.
DRO	Diesel range organics.
GRO	Gasoline range organics.
MRO	Motor oil range organics.
NM	Analyte not measured.
NS	No Approved Background Level standard was established for this analyte.
TPH	Total petroleum hydrocarbons.

Figures







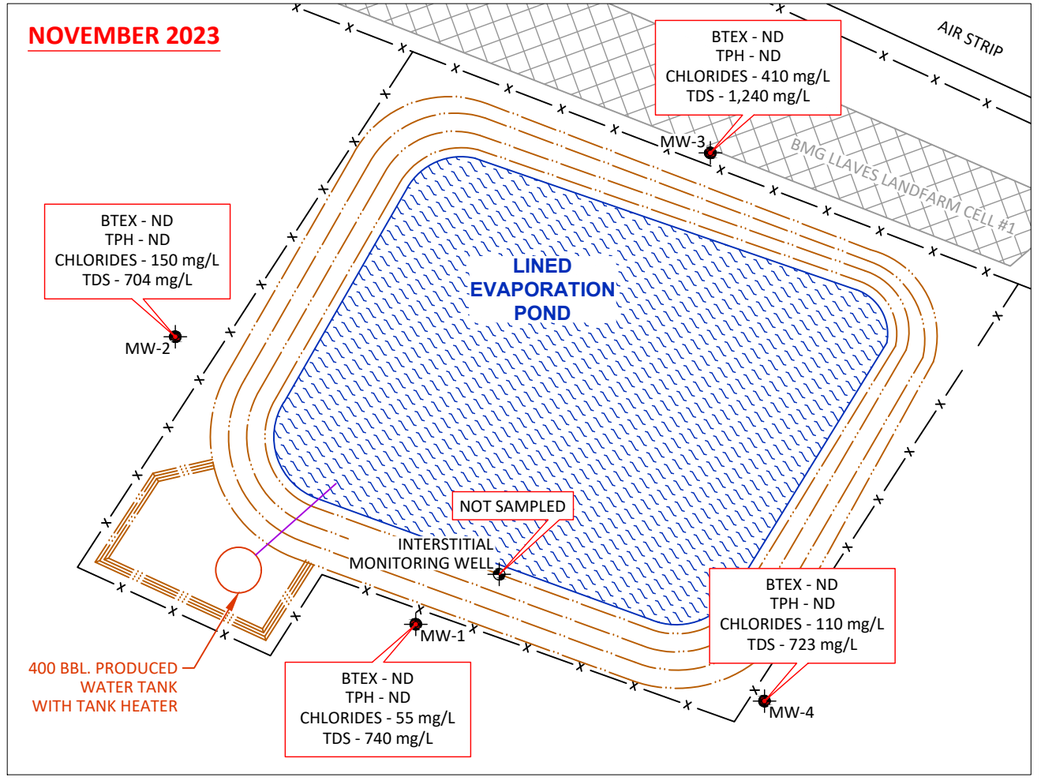


FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS 2023 CONCENTRATIONS

NW¼ NW¼, SECTION 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

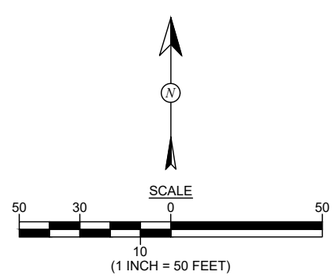
animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	January 30, 2024
CHECKED BY:	**DATE CHECKED:**
A. Todd	January 30, 2024
APPROVED BY:	**DATE APPROVED:**
E. McNally	January 30, 2024

LEGEND

x	FENCE
	EARTH BERM (SECONDARY CONTAINMENT)
	EXISTING POND LINER INTERSTITIAL MONITOR WELL
	GROUNDWATER MONITOR WELL
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENE
TPH	TOTAL PETROLEUM HYDROCARBONS
TDS	TOTAL DISSOLVED SOLIDS
ND	NOT DETECTED
µg/L	PARTS PER BILLION
mg/L	PARTS PER MILLION

NOTE: SAMPLES WERE COLLECTED ON MARCH 17, JUNE 21, AUGUST 23 AND NOVEMBER 29, 2023. ALL SAMPLES ANALYZED PER EPA METHOD 8015B, 8021B, SM 2540C, AND 300.0.



TREATMENT ZONE MONITORING LOCATIONS							
SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	CHLORIDE (mg/kg)
NMOCD CLOSURE ACTION LEVELS (NMAC 19.15.36.15)				2,500 GRO/DRO/MRO 500 GRO/DRO			500
Cell #1 TZ CS-1	CELL #1	23-Aug-23	0.5	<4.9	**110**	**210**	<60
Cell #2 TZ CS-1	CELL #2	23-Aug-23	0.5	<4.8	**200**	**340**	<60
Cell #3 TZ CS-1	CELL #3	23-Aug-23	0.5	<4.7	**170**	**300**	<60
Cell #4 TZ CS-1	CELL #4	23-Aug-23	0.5	<4.9	**39**	**60**	<61
ALL SAMPLES WERE COMPOSITE SAMPLES.							

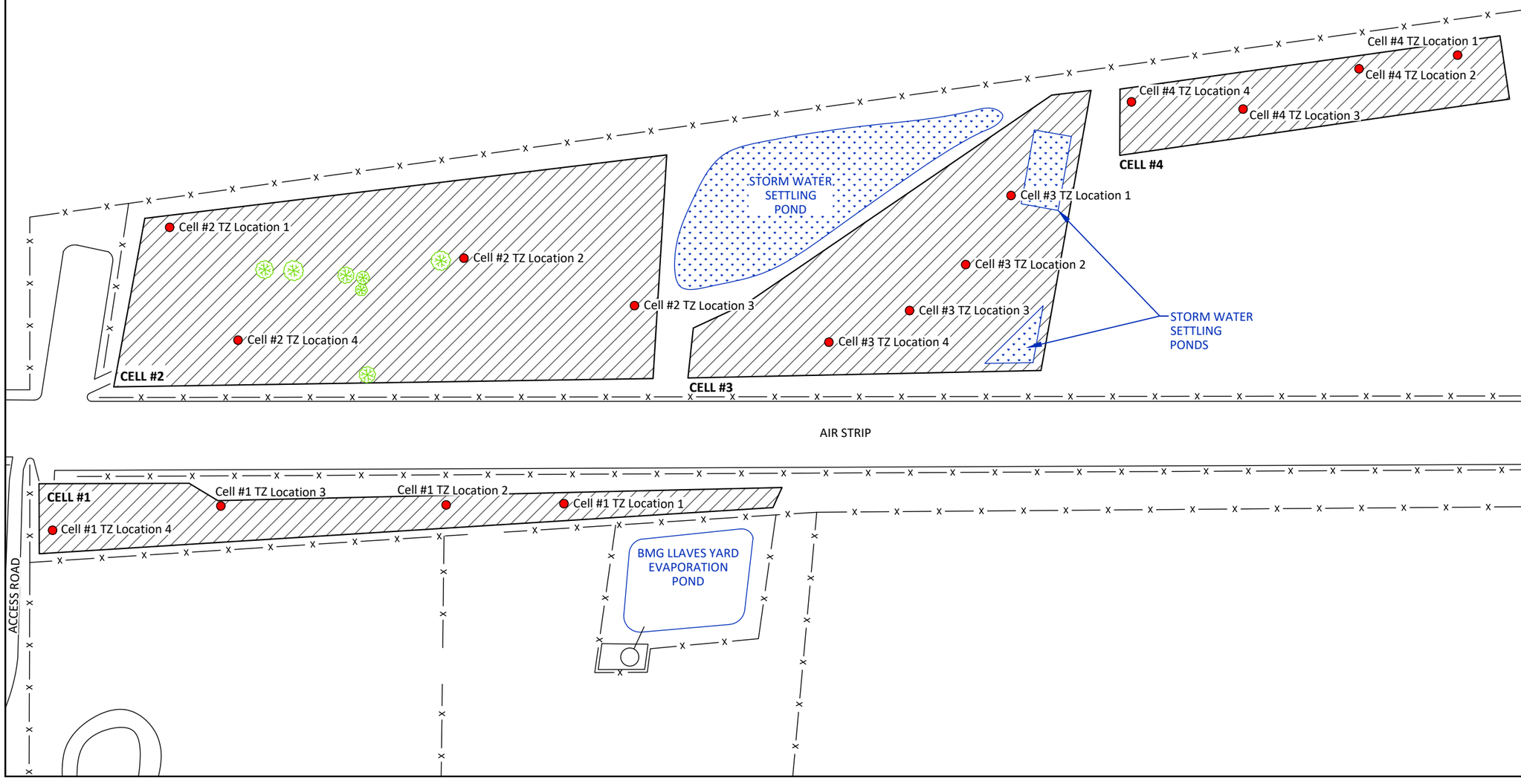


FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND RESULTS 2023

NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	January 30, 2024
CHECKED BY:	**DATE CHECKED:**
A. Todd	January 30, 2024
APPROVED BY:	**DATE APPROVED:**
E. McNally	January 30, 2024

LEGEND

● AUGUST 2023 SAMPLE LOCATIONS (FOR COMPOSITE SAMPLING)

N

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

VADOSE ZONE MONITORING LOCATIONS											
SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENES, TOTAL (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	CHLORIDE (mg/kg)
		APPROVED BACKGROUND		0.05	0.05	0.05	0.1		NS		25
Cell #1 DS-1	CELL #1	23-Aug-23	4.25	<0.025	<0.050	<0.050	<0.10	<5.0	<9.5	<47	290
Cell #2 DS-1	CELL #2	23-Aug-23	4.25	<0.024	<0.048	<0.048	<0.096	<4.8	24	<49	<60
Cell #3 DS-1	CELL #3	23-Aug-23	4.25	<0.024	<0.048	<0.048	<0.095	<4.8	<9.3	<47	<60
Cell #4 DS-1	CELL #4	23-Aug-23	4.50	<0.023	<0.047	<0.047	<0.094	<4.7	<9.4	<47	<60
Cell #1 DS-1	CELL #1	29-Nov-23	4.25	NM	NM	NM	NM	<4.7	<9.5	<48	NM
Cell #2 DS-1	CELL #2	29-Nov-23	4.50	NM	NM	NM	NM	<4.8	<10	<50	NM
Cell #3 DS-1	CELL #3	29-Nov-23	4.50	NM	NM	NM	NM	<4.9	<9.9	<50	NM
Cell #4 DS-1	CELL #4	29-Nov-23	4.25	NM	NM	NM	NM	<4.6	<8.5	<42	NM

ALL SAMPLES WERE DISCRETE SAMPLES.
NS - NO APPROVED BACKGROUND LEVEL STANDARD WAS ESTABLISHED FOR THIS ANALYTE.
NM - NOT MEASURED

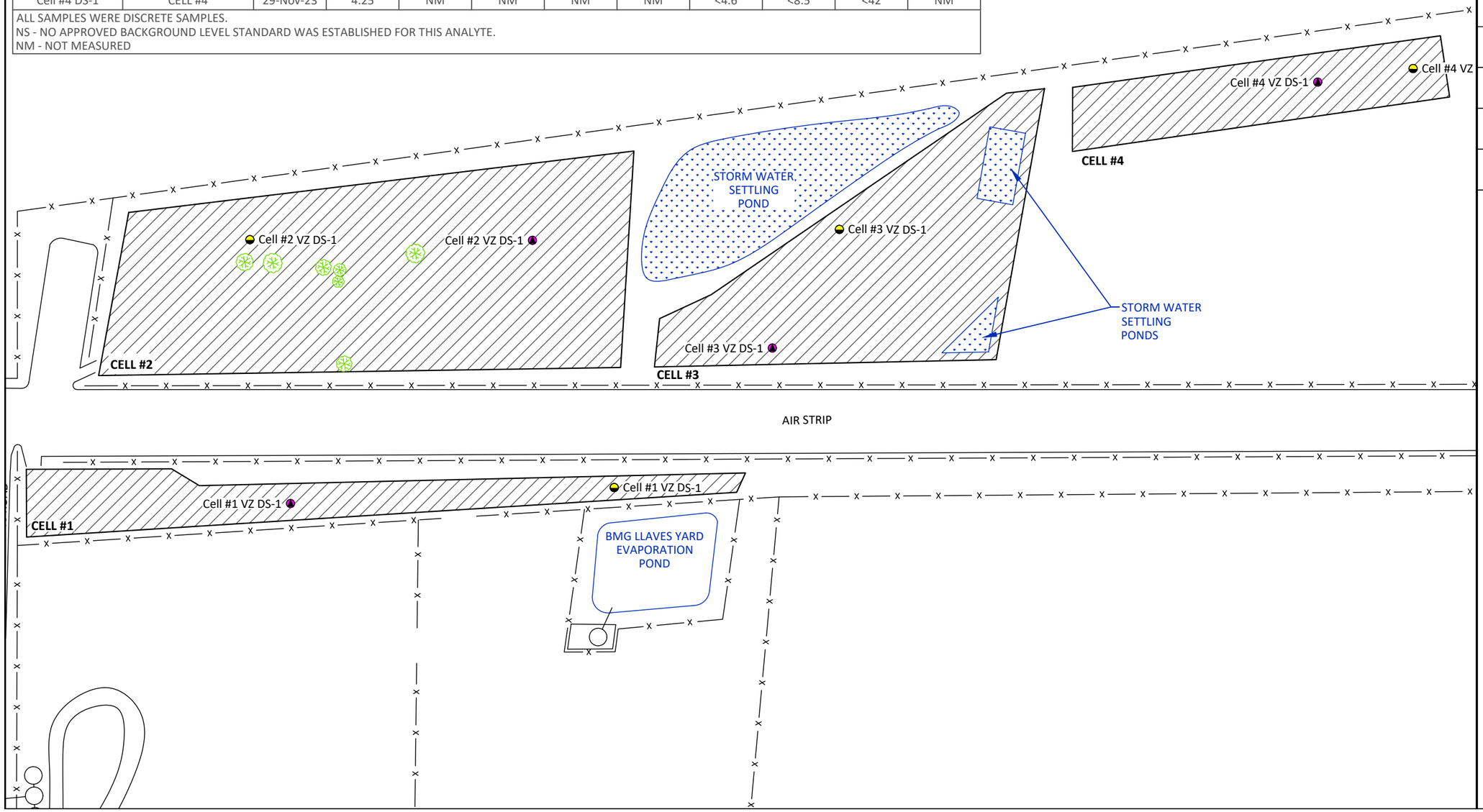


FIGURE 3

BENSON-MONTIN-GREER VADOSE ZONE MONITORING LOCATIONS, 2023

NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	DATE REVISED:
C. Lameman	January 30, 2024
CHECKED BY:	DATE CHECKED:
A. Todd	January 30, 2024
APPROVED BY:	DATE APPROVED:
E. McNally	January 30, 2024

LEGEND

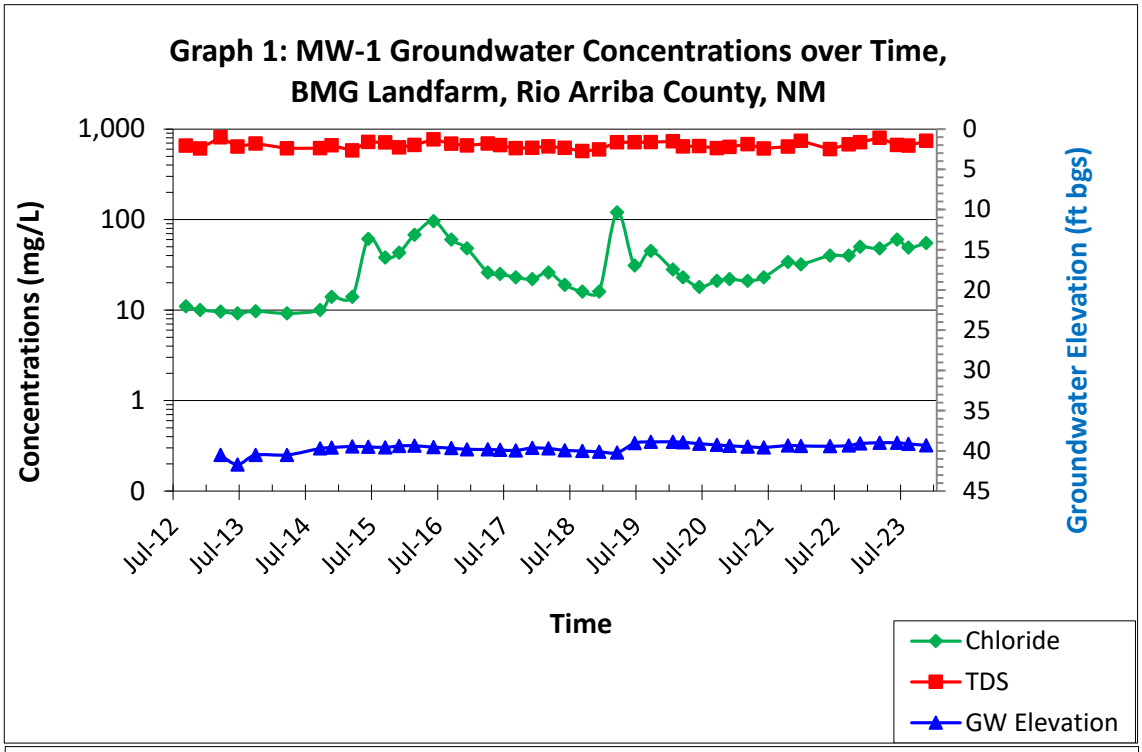
- AUGUST 2023 SAMPLE LOCATIONS
- NOVEMBER 2023 SAMPLE LOCATIONS

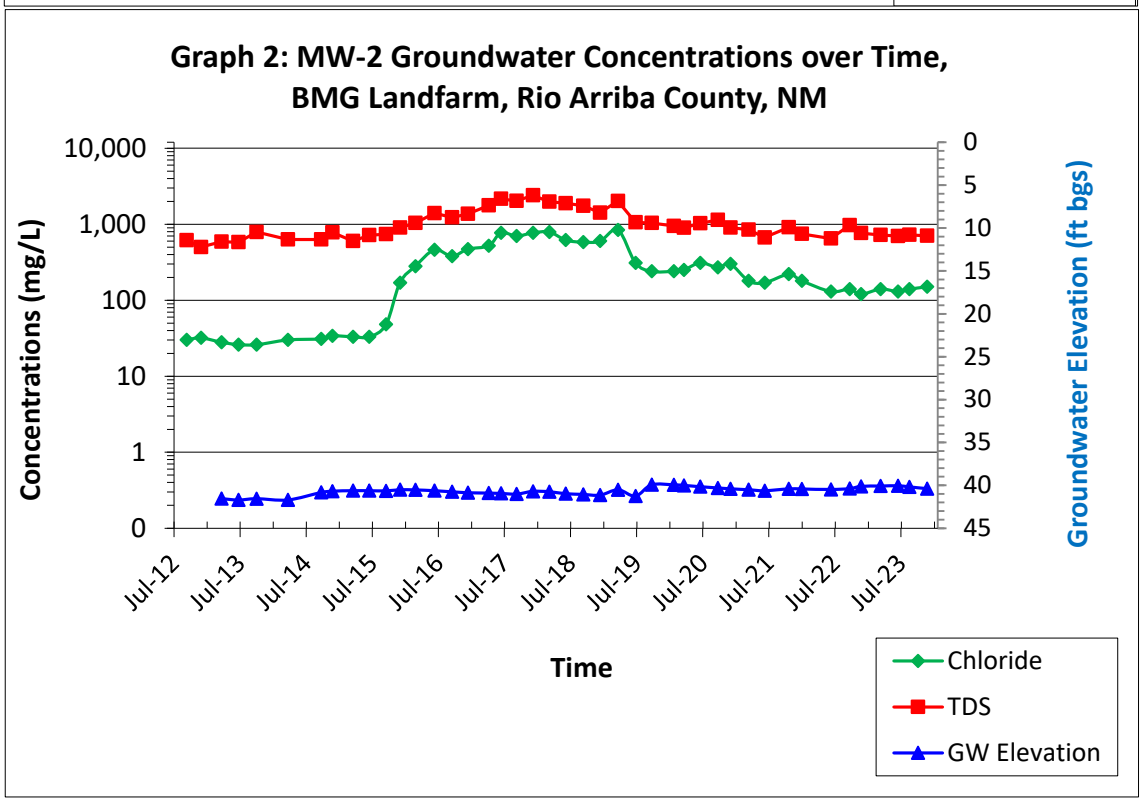
N

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

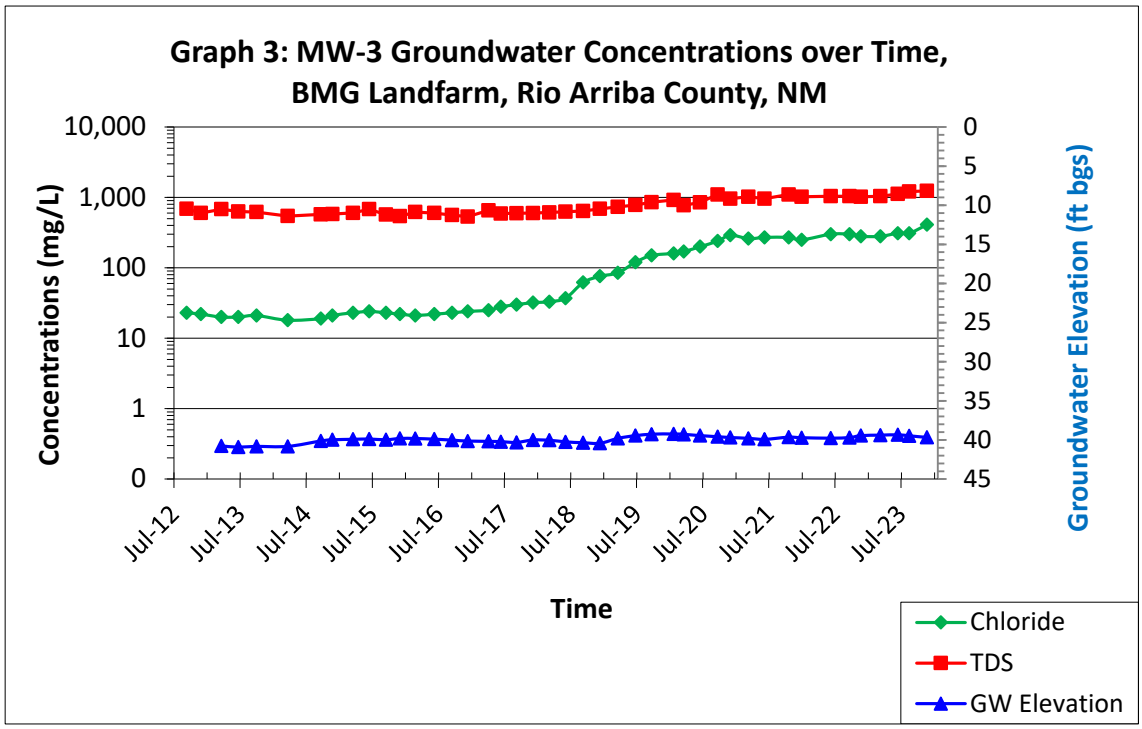
Graphs

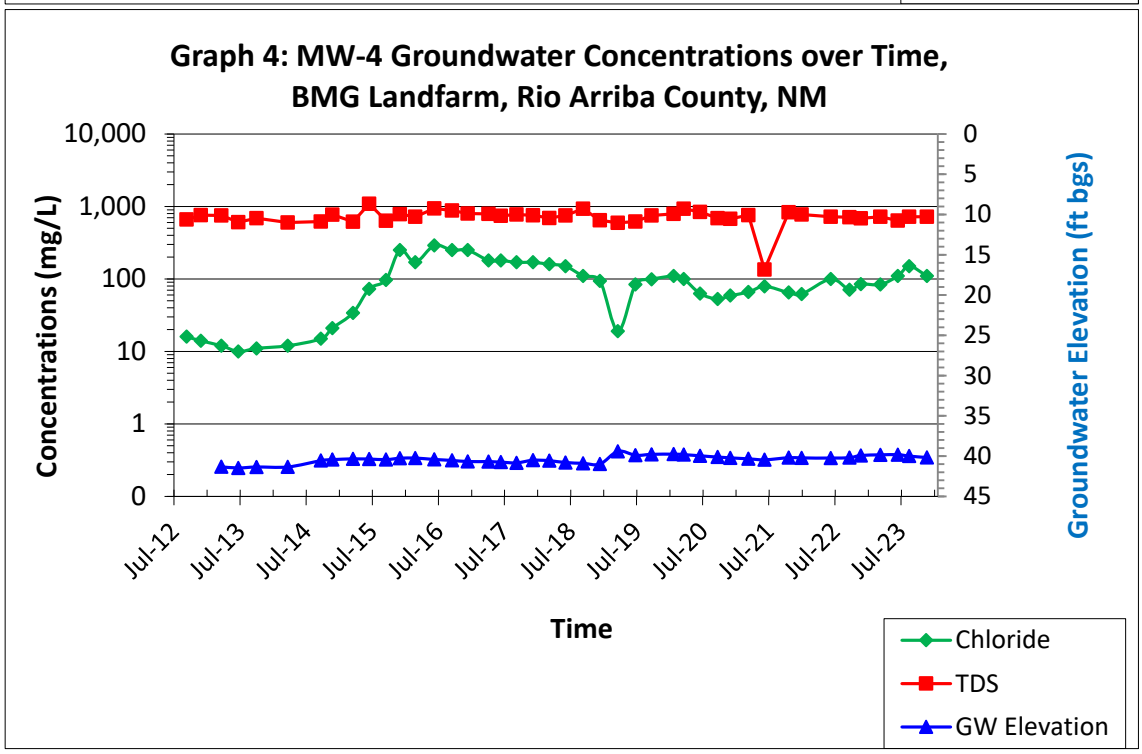
GRAPHS
BMG Landfarm
Rio Arriba, County





GRAPHS
BMG Landfarm
Rio Arriba, County





Appendix

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche St, Farmington NM 87401
Tel. (505) 564-2281 animasenvironmental.com

Project: Groundwater Monitoring and Sampling
Site: Evaporation Pond
Location: BMG Landfarm
Tech:

Project No.:
Date: 03-17-23
Time: 10:40
Form:

Well ID	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	—	39.00	—	11:15
MW-2	—	40.08	—	13:45
MW-3	—	39.39	—	12:46
MW-4	—	39.84	—	12:05
Interstitial Well	—	11.12	—	10:56 — 11.22 @ 11:09 - 11:24 @ 14:34

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MONITORING WELL SAMPLING RECORD

Monitor Well No: Interstitial Well

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: [redacted]
Purge / No Purge: Purge
Well Diameter (in): 6
Initial D.T.W. (ft): 11.12 **Time:** 10:56 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 11.12 **Time:** 10:56 *(taken prior to purging well)*
Final D.T.W. (ft): 11.24 **Time:** 14:34 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 03-17-23
Arrival Time: 10:50
Air Temp: 30° Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 12.12

Water Quality Parameters - Recorded During Well Purging
YSI __ - Calibrated:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
X							X

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: N/A
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: After bailing H2O level readings: 11.22 @ 11:09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.00 **Time:** 11:15 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.00 **Time:** 11:16 *(taken prior to purging well)*
Final D.T.W. (ft): 43.28 **Time:** 11:50 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 3-17-23
Arrival Time: 10:42
Air Temp: 30°
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI 2 - Calibrated: 03-16-23 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:28	14.2	2007	4.6	7.2	33.2	.25	tan no odor
11:32	12.9	1941	5.6	7.3	66.0	1 gallon	S.A.A
11:35	12.9	3025	6.1	7.5	67.0	2 gallon	S.A.A
11:40				—	—	Low Recharge	Water
11:47				—	—	Samples Collected	—

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - Nat drainage to SW drains
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge 3.23 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.08 **Time:** 13:45 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.08 **Time:** 13:46 *(taken prior to purging well)*
Final D.T.W. (ft): 42.61 **Time:** 14:17 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 3-17-23
Arrival Time: 13:42
Air Temp: 36° Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.56

Water Quality Parameters - Recorded During Well Purging
YSI 2 - Calibrated: 03-16-23 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:52	14.2	2288	8.1	7.4	72.0	1.25 initial	Tan No odor
13:56	13.3	2183	7.4	7.5	76.7	1 gallon	Tan-Turbid No odor
14:01	12.9	2084	7.7	7.6	80.0	2 gallon	Tan No odor
14:07			—	—	Wait for recharge of well		
14:11	12.8	2003	7.6	7.6	82.6	3 gallon	clear no odor
14:15			—	—	—	Samples Collected	—

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No drainage to SW drains
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge - 2.68 ≈ 3.0 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.39 **Time:** 12:46 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.39 **Time:** 12:47 *(taken prior to purging well)*
Final D.T.W. (ft): 43.16 **Time:** 13.28 *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES
Date: 3-17-23
Arrival Time: 12:43
Air Temp: 34° cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI 2 - Calibrated: 3-16-23 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:55	12.7	1801	3.9	7.2	92.2	.25 initial	Turbid slightly turbid - NO odor
13:00				—	wait	for Recharge of Well	—
13:15	12.9	4041	5.8	7.3	62.9	1 gallon	slightly turbid NO odor
13:20	13.2	2121	5.8	7.3	79.1	1.5 gallon	S.A.S.
13:26				→		Samples Collected	←

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No drainage to SW drains
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge - 3.0 gallons
MW-had low recharge rate -

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.84 **Time:** 12:05 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.84 **Time:** 12:06 *(taken prior to purging well)*
Final D.T.W. (ft): 39.89 **Time:** 12:27 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 3-17-23
Arrival Time: 12:00
Air Temp: 32° Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.64

Water Quality Parameters - Recorded During Well Purging
YSI 2 - Calibrated: 3-16-23 JD

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:10	12.6	3107	5.5	7.3	81.7	.25 initial	clear No odor
12:15	13.2	650	6.0	7.4	80.8	1 gallon	slightly Turbid Tan No odor
12:20	13.2	2966	6.2	7.4	80.6	2 gallon	S.A.A.
	13.1	3161	5.7	7.4	80.4	3 gallon	S.A.A.
12:30						Sample Collected	

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No drainage to SW drains
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge 2.8 gallons x 3.0

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche St, Farmington NM 87401
Tel. (505) 564-2281 animasenvironmental.com

Project: Groundwater Monitoring and Sampling
Site: Evaporation Pond
Location: BMG Landfarm
Tech:

Project No.:
Date: 6-21-23
Time: 16:23
Form:

Well ID	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	—	39.00	—	16:42
MW-2	—	40.05	—	17:55
MW-3	—	39.34	—	18:31
MW-4	—	39.82	—	17:20
Interstitial Well	—	—	—	Not gauged at this time —

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.00 **Time:** 16:42 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.00 **Time:** 16:43 *(taken prior to purging well)*
Final D.T.W. (ft): 43.78 **Time:** 17:05 *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES
Date: 6-21-23
Arrival Time: 16:39
Air Temp: 98 °F Sunny - Windy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI __ - Calibrated:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
16:52	14.0	1316	8.4	7.1	56.2	.25 initial	Clear No odor
16:56	13.5	1177	7.3	7.0	53.8	1 gallon	Turbid - Tan No odor
16:59	13.8	1153	7.2	7.1	57.7	2 gallons	S.A.A.
						for recharge	
17:02						Sampler Collected	

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge - 3.21 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.05 **Time:** 17:55 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.05 **Time:** 17:56 *(taken prior to purging well)*
Final D.T.W. (ft): 43.28 **Time:** 18:17 *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES
Date: 6-21-23
Arrival Time: 17:53
Air Temp: 91° Sunny - Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.56

Water Quality Parameters - Recorded During Well Purging
YSI __ - Calibrated:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1802	13.5	1282	7.4	7.2	68.2	.25 initial	clear no odor
1806	12.4	1229	8.9	7.4	68.1	1 gallon	Brown Turbid No odor
1810	12.4	1149	8.9	7.4	69.2	2 gallon	S.A.A.
18:16						Samples Collected	

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge 2.6 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.34 **Time:** 18:31 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.34 **Time:** 18:32 *(taken prior to purging well)*
Final D.T.W. (ft): 43.17 **Time:** 18:54 *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES
Date: 6-21-23
Arrival Time: 18:28
Air Temp: 90° Sunny Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI __ - Calibrated:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
18:34	13.5	1948	3.7	7.1	71.3	.25	Clear No odor
18:37	13.1	1879	5.8	7.2	69.2	1 gallon	Turbid Brown No odor
18:41	13.6	1847	8.4	7.3	69.5	1 gallon	S.A.A.
18:50						Sample Collected	

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge - 3.0 gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: JD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.82 **Time:** 17:20 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.82 **Time:** 17:21 *(taken prior to purging well)*
Final D.T.W. (ft): 39.86 **Time:** 17:41 *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES
Date: 6-21-23
Arrival Time: 17:17
Air Temp: 91° Sunny + Windy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.64

Water Quality Parameters - Recorded During Well Purging
YSI __ - Calibrated:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
17:28	15.2	1229	6.2	7.0	57.2	25 initial	Clear no odor
17:32	13.4	1184	7.5	7.1	60.5	1 gallon	Tan slightly turbid no odor
17:36	12.8	1174	7.3	7.2	61.7	2 gallon	S.A.A.
17:39				—	—	Samples Collected	

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge = 2.8 gallons

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche St, Farmington NM 87401
Tel. (505) 564-2281 animasenvironmental.com

Project: Groundwater Monitoring and Sampling
Site: Evaporation Pond
Location: BMG Landfarm
Tech: CL / JBE

Project No.:
Date: 8-23-23
Time: 1200 - 1500
Form:

Well ID	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	—	39.13	—	
MW-2	—	40.18	—	
MW-3	—	39.48	—	
MW-4	—	39.99	—	
Interstitial Well	—	10.11	—	Before Bailing. Then Bailed out DTW: 10.64
Interstitial Well	—	10.65	—	After Bailing. Return @ end. No Recharge.

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL / JBE
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.13 **Time:** 13:13 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.13 **Time:** 13:15 *(taken prior to purging well)*
Final D.T.W. (ft): 44.59. **Time:** 13:34 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 8-23-23
Arrival Time: 13:11
Air Temp: 75°F Cloudy Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI 1 - Calibrated:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:20	16.6	1143	4.82	7.16	105.9	Initial	Clear / No Odor
13:24	14.6	1143	4.80	7.19	102.6	1.0	Tan / Sl. Turbid No Odor
13:30	—	—	—	—	—	—	Samples Collected
							Low Recharge

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1 ~~500~~ 250mL Plastic w/ no preserve)

Disposal of Purged Water: On Ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume ≈ 1.0 gal.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: CA/BE
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.18 **Time:** 14:25 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.18 **Time:** 14:26 *(taken prior to purging well)*
Final D.T.W. (ft): 43.68 **Time:** 14:45 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 8-23-23
Arrival Time: 14:23
Air Temp: 76°F Cloudy Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.56

Water Quality Parameters - Recorded During Well Purging
YSI / - Calibrated:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:31	13.5	1265	6.28	7.42	98.2	Initial	Clear/No Odor
14:35	14.4	1212	5.70	7.46	46.5	1.0	Tan/Turbid/No Odor
14:38	12.8	1198	6.46	7.53	57.7	2.0	S.A.A.
14:44							Low Yield - Slow Recharge
							Samples Collected

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On Ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume ≈ 2.5 Gal.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: a/JBE
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.48 **Time:** 14:01 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.48 **Time:** 14:02 *(taken prior to purging well)*
Final D.T.W. (ft): 41.33 **Time:** 14:18 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 8-23-23
Arrival Time: 14:00
Air Temp: 76°F Cloudy Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI __ - Calibrated:

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
14:06	16.2	1964	2.24	7.18	102.1	Initial	Clear/No Odor
14:09	14.2	1928	4.22	7.26	102.9	1.0	Turn/Sl. Turbid/No Odor
14:13							Very Low Yield
							Samples Collected

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On Ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume ≈ 3.0 gal

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL / JBE
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.99 **Time:** 13:38 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.99 **Time:** 13:40 *(taken prior to purging well)*
Final D.T.W. (ft): 40.10 **Time:** 13:57 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 8-23-23
Arrival Time: 13:36
Air Temp: 75°F Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.64

Water Quality Parameters - Recorded During Well Purging
YSI 1 **- Calibrated:**

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:44	14.9	1290	4.32	7.17	98.2	Initial	Clear/No Odor some cow hair
13:47	13.9	1286	5.07	7.24	95.5	1.0	Tan / Sl. Turbid / No Odor
13:50	13.1	1296	5.30	7.25	97.1	2.0	S.A.A.
13:53	13.0	1293	5.14	7.24	97.0	2.75	S.A.A.
13:56							Samples Collected

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On Ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume ≈ 2.75
On Arrival well Cap not on PVC well. on ground. Possibly knocked off by Cattle. Unknown time exposed to

BMG Landfarm Soil Sampling - Treatment Zone (TZ)

Animas Environmental Services
624 E. Comanche St, Farmington NM 87401
Tel. (505)564-2281

Date: 8/23/23 Sampling Technician: AL/JTE

CELL #1				
Sample ID:	Cell #1 TZ location 1	Cell #1 TZ location 2	Cell #1 TZ location 3	Cell #1 TZ location 4
GPS: (4 locations)	36.38897, -106.86598	36.38919, -106.86646	36.38962, -106.86726	36.38968, -106.86787
Time of sample into bag:	9:58	10:01	10:03	10:07
Sample depth (ft):	0.5"	0.5"	0.5"	0.5"
Soil characteristics: (odor, color, texture)	Dry, Sand, Organics (Gr) No Odor, No Staining	Dry, Sand, No Odor, No Stains	Dry, Sand, Organics (Roots) No Odor, No Stains	Dry, Sand, No Odor, No Stains
Composite Sample Time:	10:09			Composite Sample ID = Cell #1 TZ CS-1

CELL #2				
Sample ID:	Cell #2 TZ location 1	Cell #2 TZ location 2	Cell #2 TZ location 3	Cell #2 TZ location 4
GPS: (4 locations)	36.39048, -106.86695	36.38997, -106.86600	36.38960, -106.86560	36.39003, -106.86573
Time of sample into bag:	10:26	10:29	10:33	10:36
Sample depth (ft):	0.5"	0.5"	0.5"	0.5"
Soil characteristics: (odor, color, texture)	Dry, Sand, Brown, No Odor No Stains.	Moist, Sand, Brown, No Odor No Staining	Sl. Moist, Tan Brown, No Odor Sand No Staining	Hard, Brown, Sand, No Odor No Staining
Composite Sample Time:	10:38			Composite Sample ID = Cell #2 TZ CS-1

CELL #3				
Sample ID:	Cell #3 TZ location 1	Cell #3 TZ location 2	Cell #3 TZ location 3	Cell #3 TZ location 4
GPS: (4 locations)	36.38921, -106.86403	36.38913, -106.86426	36.38909, -106.86447	36.38911, -106.86482
Time of sample into bag:	11:01	11:04	11:07	11:10
Sample depth (ft):	0.5'	0.5'	0.5'	0.5"
Soil characteristics: (odor, color, texture)	Brown, Sl. Moist, Sand No Odor No Staining.	Brown, Dry, Sand, No Odor No Staining.	Brown, Dry, Sand, No Odor No Staining	Tan Brown, Sand, No Odor No Staining.
Composite Sample Time:	11:13			Composite Sample ID = Cell #3 TZ CS-1

CELL #4				
Sample ID:	Cell #4 TZ location 1	Cell #4 TZ location 2	Cell #4 TZ location 3	Cell #4 TZ location 4
GPS: (4 locations)	36.38905, -106.86234	36.38920, -106.86265	36.38923, -106.86312	36.38942, -106.86344
Time of sample into bag:	11:19	11:33	11:35	11:38
Sample depth (ft):	0.5'	0.5"	0.5'	0.5'
Soil characteristics: (odor, color, texture)	Moist, Dk Brown, Sand, No Odor No Staining	Moist, Dk Brown, Sand, Organics (Roots) No Odor No Stain	Moist, Dk Brown, Sand, Organics (Roots) No Odor No Staining	Dry, Tan-Brown, Sand, No Odor No Staining
Composite Sample Time:	11:41			Composite Sample ID = Cell #4 TZ CS-1

Additional Notes:

BMG Landfarm Soil Sampling - Vadose Zone (VZ)

Animas Environmental Services
624 E. Comanche St, Farmington NM 87401
Tel. (505)564-2281

Date: 8/23/23 Sampling Technician: CL/SRE

CELL #1				
Sample ID:	Cell #1 VZ DS-1			
GPS: (4 locations)	36.38887, -106.86575			
Sample Time:	9:51			
Shovel depth (ft)*:	4.0			
Auger/Sample depth (ft)	4.25			
Soil characteristics: (odor, color, texture)	Brown, Clay, Moist, No Odor No Staining			

CELL #2				
Sample ID:	Cell #2 VZ DS-1			
GPS: (4 locations)	36.39031, -106.86665			
Sample Time:	10:21			
Shovel depth (ft)*:	4.0			
Auger/Sample depth (ft)	4.25			
Soil characteristics: (odor, color, texture)	Weathered SS, w/ clay, Dry No Odor, No Staining			

CELL #3				
Sample ID:	Cell #3 VZ DS-1			
GPS: (4 locations)	36.38934, -106.86465			
Sample Time:	10:53			
Shovel depth (ft)*:	4.0			
Auger/Sample depth (ft)	4.25			
Soil characteristics: (odor, color, texture)	Sl. Moist, Sand, Tan-Brown No Odor, No Staining			

CELL #4				
Sample ID:	Cell #4 VZ DS-1			
GPS: (4 locations)	36.38897, -106.86234			
Sample Time:	11:28			
Shovel depth (ft)*:	4.25			
Auger/Sample depth (ft)	4.5			
Soil characteristics: (odor, color, texture)	Brown, Sand, Dry, No Odor No Staining.			

* - Backhoe used to shovel.

Additional Notes:

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche St, Farmington NM 87401
Tel. (505) 564-2281 animasenvironmental.com

Project: Groundwater Monitoring and Sampling
Site: Evaporation Pond
Location: BMG Landfarm
Tech: AL/JO

Project No.:
Date: 11-29-23
Time: 1143 – 1355
Form:

Well ID	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	–	39.32	–	
MW-2	–	40.39	–	
MW-3	–	39.61	–	
MW-4	–	40.17	–	
Interstitial Well	–	10.63 @ 11:55	–	11.29 @ 12:12
Interstitial Well				

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JD
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES
Date: 11-29-23
Arrival Time: 1215
Air Temp: 33°F P. Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Initial D.T.W. (ft): 39.32 Time: 12:16 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.32 Time: 12:17 *(taken prior to purging well)*
Final D.T.W. (ft): 44.76 Time: 12:34 *(taken after sample collection)*
If NAPL Present: D.T.P.: – D.T.W.: – Thickness: – Time: –

Water Quality Parameters - Recorded During Well Purging
YSI 1 - Calibrated: 11-17-23 JD

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:24	12.6	1084	4.04	7.16	137.5	initial	Clear / No Odor
12:27	12.7	1107	4.19	7.17	110.3	1.0	Tan Turbid / No odor Lowered
12:31							Samples Collected

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-~~500~~250mL Plastic w/ no preserve)

Disposal of Purged Water: On the Ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume ≈ 3.0 Gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JD
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES
Date: 11-29-23
Arrival Time:
Air Temp: 29°F Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.56

Initial D.T.W. (ft): ~~43.39~~ 40.39 Time: 13:28 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 40.39 Time: 13:29 (taken prior to purging well)
Final D.T.W. (ft): 40.57 Time: 13:53 (taken after sample collection)
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Water Quality Parameters - Recorded During Well Purging
YSI 1 - Calibrated: 11-17-23 JD

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:36	11.6	1315	4.69	7.17	99.1	Initial	Tan sl. Turbid / No Odor
13:39	11.6	1252	5.21	7.21	111.8	1.0	Tan Turbid / No Odor
13:43							Samples Collected
							Low Yield

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On the Ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume = 2.5 Gallons.

MONITORING WELL SAMPLING RECORD

Monitor Well No: **MW-3**

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JO
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES
Date: 11-29-23
Arrival Time: 13:02
Air Temp: 33°F P. Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Initial D.T.W. (ft): 39.67 Time: 13:05 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.67 Time: 13:06 *(taken prior to purging well)*
Final D.T.W. (ft): 44.79 Time: 13:20 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Water Quality Parameters - Recorded During Well Purging
YSI 1 - Calibrated: 11-17.23 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:10	12.2	2020	1.78	6.98	80.2	Initial	Clear / No Odor
13:13	12.0	2029	3.25	7.05	98.7	1.0	Tan Turbid / No Odor
13:17	—	—	—	—	—	—	Samples Collected
							V. Low Yield

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On the Ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume x 3.0 Gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: CHJO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.17 **Time:** 12:45 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.17 **Time:** 12:47 *(taken prior to purging well)*
Final D.T.W. (ft): 41.19 **Time:** 13:01 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 11-29-23
Arrival Time: 12:40
Air Temp: 34°F P.Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.64

Water Quality Parameters - Recorded During Well Purging
YSI 1 **- Calibrated:** 11-17-23

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:53	12.7	1224	4.11	7.09	78.9	Initial	Clear/No odor Low Yield
12:56	12.6	1243	3.77	7.08	90.7	1.0	Tan SI. Turbid / No Odor Low Yield
12:59							Samples Collected
							V. Low Yield

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)
TPH (GRO/DRO/MRO) per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)
TDS per EPA Method SM2540C and Chlorides per EPA Method 300.0 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On the Ground
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Calculated Purge Volume ≈ 2.5 Gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: Interstitial Well

Animas Environmental Services
624 E. Comanche St., Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Evaporation Pond
Location: BMG
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/JO
Purge / No Purge: Purge
Well Diameter (in): 6
Initial D.T.W. (ft): 10.63 **Time:** 11:55 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 11.29 **Time:** 12:12 *(taken ~~prior to purging well~~ after purging well)*
Final D.T.W. (ft): 11.29 **Time:** 13:50 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 11-29-23
Arrival Time: 11:50
Air Temp: 33°F PCloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 12.12

Water Quality Parameters - Recorded During Well Purging
YSI —- Calibrated: Not used

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							No Water Quality Readings

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs ~~per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)~~ ✓
TPH (GRO/DRO/MRO) ~~per EPA Method 8015 (1 - 250 mL amber glass w/ no preserve)~~
TDS per EPA Method ~~SM2540C~~ and Chlorides per EPA Method 300.0 ~~(1-500mL Plastic w/ no preserve)~~

Disposal of Purged Water: ~~No~~ Into the Evap. Pond
Collected Samples Stored on Ice in Cooler: No Samples
Chain of Custody Record Complete: N/A
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Attempt to bail off water and see if Recharge occurs.

BMG Landfarm Soil Sampling - Vadose Zone (VZ)

Animas Environmental Services
624 E. Comanche St, Farmington NM 87401
Tel. (505)564-2281

Date: 11-29-23 Sampling Technician: CL/JO

CELL #1	
Sample ID:	Cell #1 VZ DS-1
GPS: (4 locations)	36.38938, -106.86697
Sample Time:	10:44
Shovel depth (ft)*:	4.0
Auger/Sample depth (ft):	4.25
Soil characteristics: (odor, color, texture)	Brown, Clay, Hard, No Odor No Staining, Moist, Fine Grained

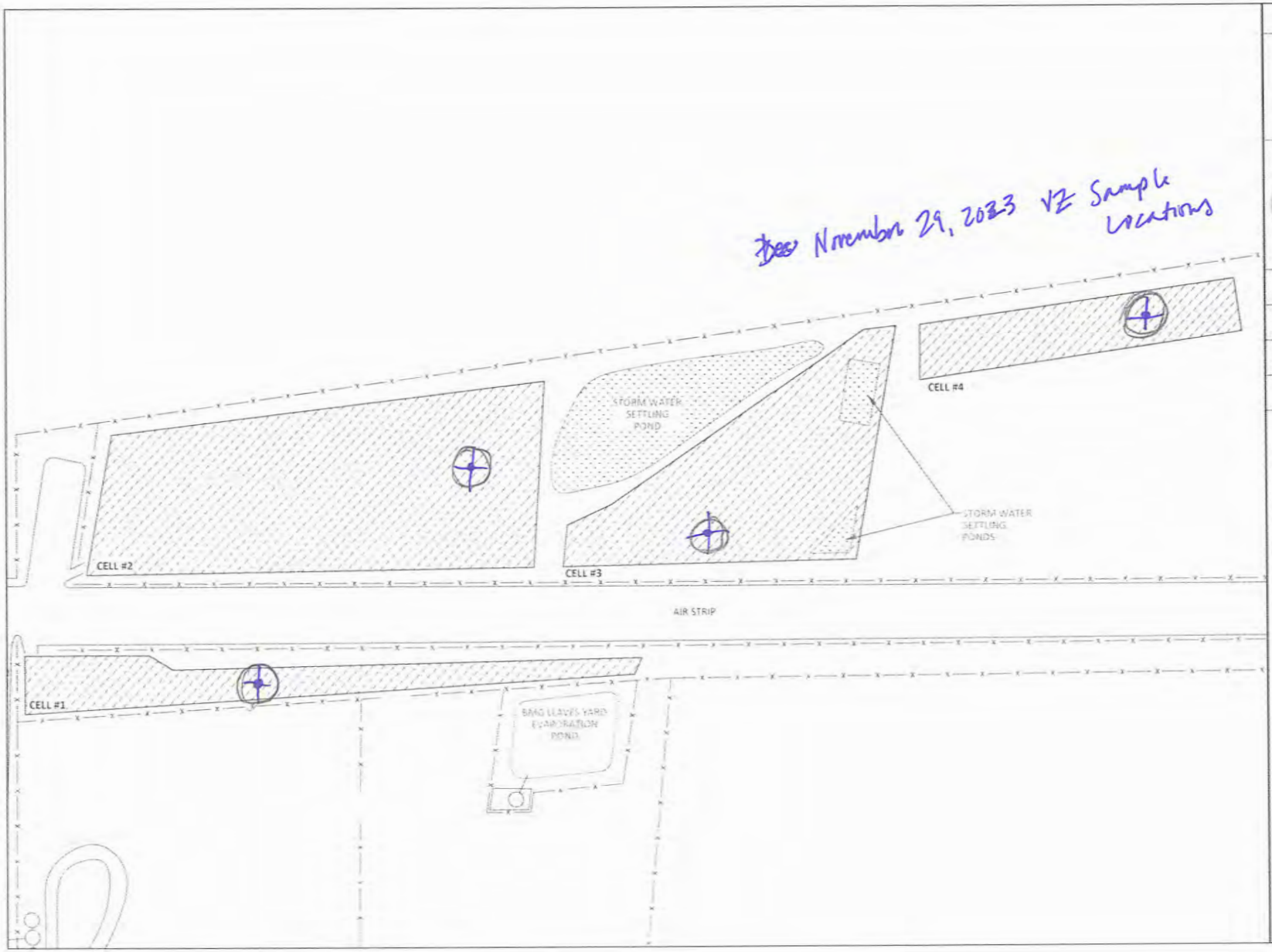
CELL #2	
Sample ID:	Cell #2 VZ DS-1
GPS: (4 locations)	36.38989, -106.86575
Sample Time:	11:00
Shovel depth (ft)*:	4.25
Auger/Sample depth (ft):	4.5
Soil characteristics: (odor, color, texture)	Tan, Sand w/ Clay, No odor, No Staining, Moist, MG

CELL #3	
Sample ID:	Cell #3 VZ DS-1
GPS: (4 locations)	36.38907, -106.86490
Sample Time:	11:16
Shovel depth (ft)*:	4.25
Auger/Sample depth (ft):	4.5
Soil characteristics: (odor, color, texture)	Tan-Brown, Sand w/ Clay. No odor, No Staining, Moist, FG

CELL #4	
Sample ID:	Cell #4 VZ DS-1
GPS: (4 locations)	36.38904, -106.86257
Sample Time:	11:31
Shovel depth (ft)*:	4.0
Auger/Sample depth (ft):	4.25
Soil characteristics: (odor, color, texture)	Brown, Sand, FG, No odor, No Staining, Sl. Moist.

* - Backhoe used to shovel.

Additional Notes:



FIGURE

BENSON-MONTIN-GREER

NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

animas environmental services
Farmington, NM
animasenvironmental.com

DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: September 12, 2023
CHECKED BY: K. Pickford	DATE CHECKED: September 12, 2023
APPROVED BY: E. McNally	DATE APPROVED: September 12, 2023

LEGEND

SCALE
150 90 0 150
30
1 INCH = 150 FEET

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 28, 2023

Angela Ledgerwood

Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: BMG Landfarm MWs Interstitial Well OrderNo.: 2303A31

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/21/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2303A31**
Date Reported: **3/28/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-1
Project: BMG Landfarm MWs Interstitial Well **Collection Date:** 3/17/2023 11:47:00 AM
Lab ID: 2303A31-001 **Matrix:** GROUNDWA **Received Date:** 3/21/2023 6:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	48	5.0		mg/L	10	3/21/2023 10:30:36 AM	R95458
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **RBC**	
Total Dissolved Solids	800	250	*D	mg/L	1	3/24/2023 3:04:00 PM	73882
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/25/2023 1:32:13 AM	73924
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/25/2023 1:32:13 AM	73924
Surr: DNOP	96.5	54.5-177		%Rec	1	3/25/2023 1:32:13 AM	73924
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/22/2023 2:42:00 PM	GW9549
Surr: BFB	99.4	70-130		%Rec	1	3/22/2023 2:42:00 PM	GW9549
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/22/2023 2:42:00 PM	BW9549
Benzene	ND	1.0		µg/L	1	3/22/2023 2:42:00 PM	BW9549
Toluene	ND	1.0		µg/L	1	3/22/2023 2:42:00 PM	BW9549
Ethylbenzene	ND	1.0		µg/L	1	3/22/2023 2:42:00 PM	BW9549
Xylenes, Total	ND	2.0		µg/L	1	3/22/2023 2:42:00 PM	BW9549
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/22/2023 2:42:00 PM	BW9549
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/22/2023 2:42:00 PM	BW9549
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	3/22/2023 2:42:00 PM	BW9549

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303A31**
Date Reported: **3/28/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-2
Project: BMG Landfarm MWs Interstitial Well **Collection Date:** 3/17/2023 2:15:00 PM
Lab ID: 2303A31-002 **Matrix:** GROUNDWA **Received Date:** 3/21/2023 6:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	140	5.0		mg/L	10	3/21/2023 11:22:03 AM	R95458
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **RBC**	
Total Dissolved Solids	722	100	*D	mg/L	1	3/24/2023 3:04:00 PM	73882
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/25/2023 1:42:40 AM	73924
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/25/2023 1:42:40 AM	73924
Surr: DNOP	97.2	54.5-177		%Rec	1	3/25/2023 1:42:40 AM	73924
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/22/2023 3:04:00 PM	GW9549
Surr: BFB	101	70-130		%Rec	1	3/22/2023 3:04:00 PM	GW9549
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/22/2023 3:04:00 PM	BW9549
Benzene	ND	1.0		µg/L	1	3/22/2023 3:04:00 PM	BW9549
Toluene	ND	1.0		µg/L	1	3/22/2023 3:04:00 PM	BW9549
Ethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:04:00 PM	BW9549
Xylenes, Total	ND	2.0		µg/L	1	3/22/2023 3:04:00 PM	BW9549
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:04:00 PM	BW9549
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:04:00 PM	BW9549
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	3/22/2023 3:04:00 PM	BW9549

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303A31**
Date Reported: **3/28/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-3
Project: BMG Landfarm MWs Interstitial Well **Collection Date:** 3/17/2023 1:26:00 PM
Lab ID: 2303A31-003 **Matrix:** GROUNDWA **Received Date:** 3/21/2023 6:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	280	50	*	mg/L	100	3/21/2023 12:26:20 PM	R95458
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **RBC**	
Total Dissolved Solids	1040	100	*D	mg/L	1	3/24/2023 3:04:00 PM	73882
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/25/2023 1:53:05 AM	73924
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/25/2023 1:53:05 AM	73924
Surr: DNOP	92.6	54.5-177		%Rec	1	3/25/2023 1:53:05 AM	73924
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/22/2023 3:25:00 PM	GW9549
Surr: BFB	105	70-130		%Rec	1	3/22/2023 3:25:00 PM	GW9549
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/22/2023 3:25:00 PM	BW9549
Benzene	ND	1.0		µg/L	1	3/22/2023 3:25:00 PM	BW9549
Toluene	ND	1.0		µg/L	1	3/22/2023 3:25:00 PM	BW9549
Ethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:25:00 PM	BW9549
Xylenes, Total	ND	2.0		µg/L	1	3/22/2023 3:25:00 PM	BW9549
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:25:00 PM	BW9549
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:25:00 PM	BW9549
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	3/22/2023 3:25:00 PM	BW9549

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2303A31**
Date Reported: **3/28/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-4
Project: BMG Landfarm MWs Interstitial Well **Collection Date:** 3/17/2023 12:30:00 PM
Lab ID: 2303A31-004 **Matrix:** GROUNDWA **Received Date:** 3/21/2023 6:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	84	5.0		mg/L	10	3/21/2023 12:39:12 PM	R95458
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **RBC**	
Total Dissolved Solids	720	100	*D	mg/L	1	3/24/2023 3:04:00 PM	73882
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/25/2023 2:03:29 AM	73924
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/25/2023 2:03:29 AM	73924
Surr: DNOP	96.2	54.5-177		%Rec	1	3/25/2023 2:03:29 AM	73924
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/22/2023 3:47:00 PM	GW9549
Surr: BFB	98.0	70-130		%Rec	1	3/22/2023 3:47:00 PM	GW9549
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/22/2023 3:47:00 PM	BW9549
Benzene	ND	1.0		µg/L	1	3/22/2023 3:47:00 PM	BW9549
Toluene	ND	1.0		µg/L	1	3/22/2023 3:47:00 PM	BW9549
Ethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:47:00 PM	BW9549
Xylenes, Total	ND	2.0		µg/L	1	3/22/2023 3:47:00 PM	BW9549
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:47:00 PM	BW9549
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/22/2023 3:47:00 PM	BW9549
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	3/22/2023 3:47:00 PM	BW9549

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2303A31**
28-Mar-23

Client: Animas Environmental Services
Project: BMG Landfarm MWs Interstitial Well

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R95458**	RunNo: **95458**							
Prep Date:	Analysis Date: **3/21/2023**	SeqNo: **3453172**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R95458**	RunNo: **95458**							
Prep Date:	Analysis Date: **3/21/2023**	SeqNo: **3453173**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.9	90	110			

Sample ID: **2303A31-001CMS**	SampType: **ms**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **MW-1**	Batch ID: **R95458**	RunNo: **95458**							
Prep Date:	Analysis Date: **3/21/2023**	SeqNo: **3453175**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	96	5.0	50.00	47.66	97.6	80.7	112			

Sample ID: **2303A31-001CMSD**	SampType: **msd**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **MW-1**	Batch ID: **R95458**	RunNo: **95458**							
Prep Date:	Analysis Date: **3/21/2023**	SeqNo: **3453176**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	95	5.0	50.00	47.66	95.3	80.9	111	1.18	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2303A31**
28-Mar-23

Client: Animas Environmental Services
Project: BMG Landfarm MWs Interstitial Well

Sample ID: **MB-73924**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **73924**	RunNo: **95507**
Prep Date: **3/24/2023**	Analysis Date: **3/25/2023**	SeqNo: **3457782** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.48		0.5000		96.6	54.5	177			

Sample ID: **LCS-73924**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **73924**	RunNo: **95507**
Prep Date: **3/24/2023**	Analysis Date: **3/25/2023**	SeqNo: **3457783** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.6	1.0	2.500	0	106	68.4	146			
Surr: DNOP	0.26		0.2500		104	54.5	177			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2303A31**
28-Mar-23

Client: Animas Environmental Services
Project: BMG Landfarm MWs Interstitial Well

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **GW95490**	RunNo: **95490**							
Prep Date:	Analysis Date: **3/22/2023**	SeqNo: **3454026**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	102	70	130			
Surr: BFB	47		20.00		233	70	130			S

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **GW95490**	RunNo: **95490**							
Prep Date:	Analysis Date: **3/22/2023**	SeqNo: **3454027**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		105	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2303A31**
28-Mar-23

Client: Animas Environmental Services
Project: BMG Landfarm MWs Interstitial Well

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **BW95490**	RunNo: **95490**
Prep Date:	Analysis Date: **3/22/2023**	SeqNo: **3454421** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	21	2.5	20.00	0	104	70	130			
Benzene	19	1.0	20.00	0	97.1	70	130			
Toluene	20	1.0	20.00	0	98.2	70	130			
Ethylbenzene	20	1.0	20.00	0	98.3	70	130			
Xylenes, Total	59	2.0	60.00	0	98.4	70	130			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	101	70	130			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	97.2	70	130			
Surr: 4-Bromofluorobenzene	21		20.00		106	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **BW95490**	RunNo: **95490**
Prep Date:	Analysis Date: **3/22/2023**	SeqNo: **3454422** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	21		20.00		103	70	130			

Sample ID: **2303A31-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1**	Batch ID: **BW95490**	RunNo: **95490**
Prep Date:	Analysis Date: **3/22/2023**	SeqNo: **3454430** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20	2.5	20.00	0	99.8	70	130			
Benzene	19	1.0	20.00	0	97.2	70	130			
Toluene	20	1.0	20.00	0	98.1	70	130			
Ethylbenzene	20	1.0	20.00	0	98.3	70	130			
Xylenes, Total	59	2.0	60.00	0	98.0	70	130			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	98.1	70	130			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	94.8	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		97.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2303A31**
28-Mar-23

Client: Animas Environmental Services
Project: BMG Landfarm MWs Interstitial Well

Sample ID: **2303A31-001amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1** Batch ID: **BW95490** RunNo: **95490**
Prep Date: Analysis Date: **3/22/2023** SeqNo: **3454431** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19	2.5	20.00	0	96.3	70	130	3.59	20	
Benzene	19	1.0	20.00	0	93.6	70	130	3.81	20	
Toluene	19	1.0	20.00	0	94.7	70	130	3.52	20	
Ethylbenzene	19	1.0	20.00	0	95.2	70	130	3.23	20	
Xylenes, Total	57	2.0	60.00	0	95.4	70	130	2.65	20	
1,2,4-Trimethylbenzene	20	1.0	20.00	0	98.4	70	130	0.282	20	
1,3,5-Trimethylbenzene	19	1.0	20.00	0	95.5	70	130	0.677	20	
Surr: 4-Bromofluorobenzene	19		20.00		94.6	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2303A31**
28-Mar-23

Client: Animas Environmental Services
Project: BMG Landfarm MWs Interstitial Well

Sample ID: **MB-73882**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **PBW**	Batch ID: **73882**	RunNo: **95547**							
Prep Date: **3/23/2023**	Analysis Date: **3/24/2023**	SeqNo: **3456230**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-73882**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**							
Client ID: **LCSW**	Batch ID: **73882**	RunNo: **95547**							
Prep Date: **3/23/2023**	Analysis Date: **3/24/2023**	SeqNo: **3456231**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	989	50.0	1000	0	98.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2303A31 | RcptNo: 1

Received By: **Tracy Casarrubias** 3/21/2023 6:20:00 AM

Completed By: **Tracy Casarrubias** 3/21/2023 6:47:32 AM

Reviewed By: JM 3/21/23

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° 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: _____

3-21-23

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	2.1	Good	Yes	Yogi		

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:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush_____

Project Name:
BMG Landfarm - MWs & interstitial well

Project #:
AES 040605

Project Manager:
Angela Ledgerwood
Elizabeth McNally

Sampler:

On Ice: ☒ Yes ☐ No (409)

# of Coolers: 1

Cooler Temp(including CF): 2.0 +0.1 = 2.1°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2303A31	BTEX via Method 8021	TPH GRO / DRO / MRO via EPA8015M/D	Chlorides via EPA300.0	Total Dissolved Solids via SM2540C
3/17/23	11:47	GW	MW-1	(5) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	5-HgCl2 cool 2-Non	001	x	x	x	x
	14:15	GW	MW-2	(5) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	5-HgCl2 cool 2-Non	002	x	x	x	x
	13:26	GW	MW-3	(5) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	5-HgCl2 cool 2-Non	003	x	x	x	x
↓	12:30	GW	MW-4	(5) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	5-HgCl2 cool 2-Non	004	x	x	x	x
		W	Trip Blank	(2) 40 mL glass	Cold	~~005~~ mc. 3/21/23	x			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date Time
3/20/23	1542				3/20/23 1542
3/20/23	1816			Courier	3/21/23 6:20

Remarks:
Please direct-bill this project to BMG.
Trip Blank not send

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 06, 2023

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

RE: BMG Landfarm MWs Interstitial Well OrderNo.: 2306C89

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/24/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2306C89**
Date Reported: **7/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-1
Project: BMG Landfarm MWs Interstitial Well **Collection Date:** 6/21/2023 5:02:00 PM
Lab ID: 2306C89-001 **Matrix:** GROUNDWA **Received Date:** 6/24/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/26/2023 10:09:33 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/26/2023 10:09:33 PM
Surr: DNOP	119	54.5-177		%Rec	1	6/26/2023 10:09:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/26/2023 5:54:31 PM
Surr: BFB	106	15-270		%Rec	1	6/26/2023 5:54:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/27/2023 12:19:20 AM
Surr: BFB	99.5	15-270		%Rec	1	6/27/2023 12:19:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	1.0		µg/L	1	6/26/2023 5:54:31 PM
Toluene	ND	1.0		µg/L	1	6/26/2023 5:54:31 PM
Ethylbenzene	ND	1.0		µg/L	1	6/26/2023 5:54:31 PM
Xylenes, Total	ND	2.0		µg/L	1	6/26/2023 5:54:31 PM
Surr: 4-Bromofluorobenzene	95.0	52.4-148		%Rec	1	6/26/2023 5:54:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	60	5.0		mg/L	10	6/26/2023 12:27:44 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JAG**
Total Dissolved Solids	666	100	*D	mg/L	1	6/29/2023 3:10:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2306C89**
Date Reported: **7/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-2
Project: BMG Landfarm MWs Interstitial Well **Collection Date:** 6/21/2023 6:16:00 PM
Lab ID: 2306C89-002 **Matrix:** GROUNDWA **Received Date:** 6/24/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/26/2023 10:20:32 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/26/2023 10:20:32 PM
Surr: DNOP	131	54.5-177		%Rec	1	6/26/2023 10:20:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/26/2023 6:18:46 PM
Surr: BFB	107	15-270		%Rec	1	6/26/2023 6:18:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/27/2023 12:43:09 AM
Surr: BFB	102	15-270		%Rec	1	6/27/2023 12:43:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	1.0		µg/L	1	6/26/2023 6:18:46 PM
Toluene	ND	1.0		µg/L	1	6/26/2023 6:18:46 PM
Ethylbenzene	ND	1.0		µg/L	1	6/26/2023 6:18:46 PM
Xylenes, Total	ND	2.0		µg/L	1	6/26/2023 6:18:46 PM
Surr: 4-Bromofluorobenzene	95.7	52.4-148		%Rec	1	6/26/2023 6:18:46 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	130	5.0		mg/L	10	6/26/2023 12:53:27 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JAG**
Total Dissolved Solids	700	250	*D	mg/L	1	6/29/2023 3:10:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2306C89**
Date Reported: **7/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-3
Project: BMG Landfarm MWs Interstitial Well **Collection Date:** 6/21/2023 6:50:00 PM
Lab ID: 2306C89-003 **Matrix:** GROUNDWA **Received Date:** 6/24/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/26/2023 10:31:34 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/26/2023 10:31:34 PM
Surr: DNOP	128	54.5-177		%Rec	1	6/26/2023 10:31:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/26/2023 6:43:02 PM
Surr: BFB	107	15-270		%Rec	1	6/26/2023 6:43:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/27/2023 1:06:58 AM
Surr: BFB	98.9	15-270		%Rec	1	6/27/2023 1:06:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	1.0		µg/L	1	6/26/2023 6:43:02 PM
Toluene	ND	1.0		µg/L	1	6/26/2023 6:43:02 PM
Ethylbenzene	ND	1.0		µg/L	1	6/26/2023 6:43:02 PM
Xylenes, Total	ND	2.0		µg/L	1	6/26/2023 6:43:02 PM
Surr: 4-Bromofluorobenzene	95.9	52.4-148		%Rec	1	6/26/2023 6:43:02 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	310	50	*	mg/L	100	6/26/2023 1:32:02 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JAG**
Total Dissolved Solids	1120	100	*D	mg/L	1	6/29/2023 3:10:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2306C89**
Date Reported: **7/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-4
Project: BMG Landfarm MWs Interstitial Well **Collection Date:** 6/21/2023 5:39:00 PM
Lab ID: 2306C89-004 **Matrix:** GROUNDWA **Received Date:** 6/24/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/26/2023 10:42:36 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/26/2023 10:42:36 PM
Surr: DNOP	135	54.5-177		%Rec	1	6/26/2023 10:42:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/26/2023 7:07:13 PM
Surr: BFB	107	15-270		%Rec	1	6/26/2023 7:07:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/27/2023 1:30:45 AM
Surr: BFB	104	15-270		%Rec	1	6/27/2023 1:30:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	1.0		µg/L	1	6/26/2023 7:07:13 PM
Toluene	ND	1.0		µg/L	1	6/26/2023 7:07:13 PM
Ethylbenzene	ND	1.0		µg/L	1	6/26/2023 7:07:13 PM
Xylenes, Total	ND	2.0		µg/L	1	6/26/2023 7:07:13 PM
Surr: 4-Bromofluorobenzene	94.3	52.4-148		%Rec	1	6/26/2023 7:07:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	110	5.0		mg/L	10	6/26/2023 2:10:37 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JAG**
Total Dissolved Solids	638	100	*D	mg/L	1	6/29/2023 3:10:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2306C89**
Date Reported: **7/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Landfarm MWs Interstitial Well **Collection Date:**
Lab ID: 2306C89-005 **Matrix:** TRIP BLANK **Received Date:** 6/24/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	1.0		µg/L	1	6/26/2023 7:31:22 PM
Toluene	ND	1.0		µg/L	1	6/26/2023 7:31:22 PM
Ethylbenzene	ND	1.0		µg/L	1	6/26/2023 7:31:22 PM
Xylenes, Total	ND	2.0		µg/L	1	6/26/2023 7:31:22 PM
Surr: 4-Bromofluorobenzene	92.0	52.4-148		%Rec	1	6/26/2023 7:31:22 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306C89**

06-Jul-23

Client: Animas Environmental Services

Project: BMG Landfarm MWs Interstitial Well

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R97731**	RunNo: **97731**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554314** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R97731**	RunNo: **97731**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554315** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.8	90	110			

Sample ID: **2306C89-004DMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-4**	Batch ID: **R97731**	RunNo: **97731**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554325** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	160	5.0	50.00	112.8	96.8	80.7	112			

Sample ID: **2306C89-004DMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW-4**	Batch ID: **R97731**	RunNo: **97731**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554326** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	160	5.0	50.00	112.8	98.3	80.9	111	0.458	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306C89**

06-Jul-23

Client: Animas Environmental Services

Project: BMG Landfarm MWs Interstitial Well

Sample ID: **2306C89-004CMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-4**	Batch ID: **75840**	RunNo: **97703**
Prep Date: **6/26/2023**	Analysis Date: **6/26/2023**	SeqNo: **3554398** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.4	1.0	2.500	0	94.7	47.3	147			
Surr: DNOP	1.0		0.7500		134	54.5	177			

Sample ID: **2306C89-004CMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-4**	Batch ID: **75840**	RunNo: **97703**
Prep Date: **6/26/2023**	Analysis Date: **6/26/2023**	SeqNo: **3554399** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.3	1.0	2.500	0	93.3	47.3	147	1.47	20	
Surr: DNOP	0.99		0.7500		132	54.5	177	0	0	

Sample ID: **LCS-75840**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **75840**	RunNo: **97703**
Prep Date: **6/26/2023**	Analysis Date: **6/26/2023**	SeqNo: **3554400** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.3	1.0	2.500	0	91.4	68.4	146			
Surr: DNOP	0.30		0.2500		120	54.5	177			

Sample ID: **MB-75840**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **75840**	RunNo: **97733**
Prep Date: **6/26/2023**	Analysis Date: **6/27/2023**	SeqNo: **3554401** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.60		0.5000		119	54.5	177			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306C89**

06-Jul-23

Client: Animas Environmental Services

Project: BMG Landfarm MWs Interstitial Well

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **GA97710**	RunNo: **97710**							
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3553501**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	99.8	70	130			
Surr: BFB	42		20.00		211	15	270			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **GA97710**	RunNo: **97710**							
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3553502**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		104	15	270			

Sample ID: **2.5ug gro lcs-ii**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **GSS97710**	RunNo: **97710**							
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554571**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	96.9	70	130			
Surr: BFB	42		20.00		209	15	270			

Sample ID: **mb-ii**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **GSS97710**	RunNo: **97710**							
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554572**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		103	15	270			

Sample ID: **2306c89-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **MW-1**	Batch ID: **GA97710**	RunNo: **97710**							
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554580**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	95.9	41.2	148			
Surr: BFB	43		20.00		213	15	270			

Sample ID: **2306c89-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **MW-1**	Batch ID: **GA97710**	RunNo: **97710**							
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554581**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306C89**

06-Jul-23

Client: Animas Environmental Services

Project: BMG Landfarm MWs Interstitial Well

Sample ID: **2306c89-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **GA97710**	RunNo: **97710**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554581** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	96.8	41.2	148	0.914	20	
Surr: BFB	43		20.00		215	15	270	0	0	

Sample ID: **2306c89-001bms**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **GSS97710**	RunNo: **97710**
Prep Date:	Analysis Date: **6/27/2023**	SeqNo: **3554583** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.0	41.2	148			
Surr: BFB	42		20.00		208	15	270			

Sample ID: **2306c89-001bmsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **GSS97710**	RunNo: **97710**
Prep Date:	Analysis Date: **6/27/2023**	SeqNo: **3554584** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.3	41.2	148	1.80	20	
Surr: BFB	42		20.00		208	15	270	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306C89**

06-Jul-23

Client: Animas Environmental Services

Project: BMG Landfarm MWs Interstitial Well

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R97710**	RunNo: **97710**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3553505** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	87.1	70	130			
Toluene	18	1.0	20.00	0	89.6	70	130			
Ethylbenzene	18	1.0	20.00	0	89.5	70	130			
Xylenes, Total	54	2.0	60.00	0	90.0	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		98.9	52.4	148			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R97710**	RunNo: **97710**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3553506** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		93.6	52.4	148			

Sample ID: **2306c89-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R97710**	RunNo: **97710**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554607** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.0	70	130			
Toluene	18	1.0	20.00	0	90.3	70	130			
Ethylbenzene	18	1.0	20.00	0	89.4	70	130			
Xylenes, Total	54	2.0	60.00	0	90.2	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		99.7	52.4	148			

Sample ID: **2306c89-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R97710**	RunNo: **97710**
Prep Date:	Analysis Date: **6/26/2023**	SeqNo: **3554608** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	84.2	70	130	5.47	20	
Toluene	17	1.0	20.00	0	85.9	70	130	4.95	20	
Ethylbenzene	17	1.0	20.00	0	87.2	70	130	2.50	20	
Xylenes, Total	52	2.0	60.00	0	87.0	70	130	3.62	20	
Surr: 4-Bromofluorobenzene	20		20.00		98.8	52.4	148	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306C89**

06-Jul-23

Client: Animas Environmental Services

Project: BMG Landfarm MWs Interstitial Well

Sample ID: **MB-75880**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **75880**	RunNo: **97827**
Prep Date: **6/28/2023**	Analysis Date: **6/29/2023**	SeqNo: **3558237** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-75880**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **75880**	RunNo: **97827**
Prep Date: **6/28/2023**	Analysis Date: **6/29/2023**	SeqNo: **3558238** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	50.0	1000	0	101	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2306C89 | RcptNo: 1

Received By: Tracy Casarrubias 6/24/2023 7:45:00 AM

Completed By: Tracy Casarrubias 6/25/2023 7:37:59 AM

Reviewed By: DAD 6/26/23

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° 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: SCM 06/26/23

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes	Yogi		

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services	Turn-Around Time: ☒ Standard ☐ Rush
	Project Name: BMG Landfarm - MWs & interstitial well
Mailing Address: P.O. Box 8 Farmington, NM 87499-0008	Project #: AES 040605
Phone #: 720-537-6650	
Email or Fax#: aledgerwood@animasenvironmental.com	Project Manager: Angela Ledgerwood, Elizabeth McNally
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler:
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other	On Ice: ☒ Yes ☐ No 4oz
☐ EDD (Type)	# of Coolers: 1
	Cooler Temp(including CF): 5.2+0.1=5.3°C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2306C89	BTEX via Method 8021	TPH GRO / DRO / MRO via EPA8015M/D	Chlorides via EPA300.0	Total Dissolved Solids via SM2540C
6-21-23	17:02	GW	MW-1	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 cool 2-Non	001	x	x	x	x
	18:16	GW	MW-2	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 cool 2-Non	002	x	x	x	x
	18:50	GW	MW-3	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 cool 2-Non	003	x	x	x	x
6-21-23	17:39	GW	MW-4	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 cool 2-Non	004	x	x	x	x
		W	Trip Blank	(2) 40 mL glass	Cold HgCl2 -50	005	x			

Date: 6-23-23	Time: 18:35	Relinquished by:	Received by:	Via: Courier	Date Time: 6/24/23 7:45
Date:	Time:	Relinquished by:	Received by:	Via:	Date Time

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 08, 2023

Angela Todd

Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL:
FAX:

RE: BMG Landfarm OrderNo.: 2308E14

Dear Angela Todd:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/25/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2308E14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-1
Project: BMG Landfarm **Collection Date:** 8/23/2023 1:30:00 PM
Lab ID: 2308E14-001 **Matrix:** GROUNDWA **Received Date:** 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/29/2023 12:16:21 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/29/2023 12:16:21 AM
Surr: DNOP	104	54.5-177		%Rec	1	8/29/2023 12:16:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/28/2023 2:53:00 PM
Surr: BFB	106	15-270		%Rec	1	8/28/2023 2:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	8/28/2023 2:53:00 PM
Toluene	ND	1.0		µg/L	1	8/28/2023 2:53:00 PM
Ethylbenzene	ND	1.0		µg/L	1	8/28/2023 2:53:00 PM
Xylenes, Total	ND	2.0		µg/L	1	8/28/2023 2:53:00 PM
Surr: 4-Bromofluorobenzene	95.1	52.4-148		%Rec	1	8/28/2023 2:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	49	5.0		mg/L	10	8/26/2023 7:40:03 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MCA**
Total Dissolved Solids	654	100	*D	mg/L	1	8/30/2023 3:05:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308E14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-2
Project: BMG Landfarm **Collection Date:** 8/23/2023 2:44:00 PM
Lab ID: 2308E14-002 **Matrix:** GROUNDWA **Received Date:** 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/29/2023 12:27:16 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/29/2023 12:27:16 AM
Surr: DNOP	90.6	54.5-177		%Rec	1	8/29/2023 12:27:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/28/2023 3:15:00 PM
Surr: BFB	102	15-270		%Rec	1	8/28/2023 3:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	8/28/2023 3:15:00 PM
Toluene	ND	1.0		µg/L	1	8/28/2023 3:15:00 PM
Ethylbenzene	ND	1.0		µg/L	1	8/28/2023 3:15:00 PM
Xylenes, Total	ND	2.0		µg/L	1	8/28/2023 3:15:00 PM
Surr: 4-Bromofluorobenzene	95.3	52.4-148		%Rec	1	8/28/2023 3:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	140	5.0		mg/L	10	8/26/2023 8:29:41 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MCA**
Total Dissolved Solids	726	100	*D	mg/L	1	8/30/2023 3:05:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308E14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-3
Project: BMG Landfarm **Collection Date:** 8/23/2023 2:13:00 PM
Lab ID: 2308E14-003 **Matrix:** GROUNDWA **Received Date:** 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/29/2023 12:38:12 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/29/2023 12:38:12 AM
Surr: DNOP	91.8	54.5-177		%Rec	1	8/29/2023 12:38:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/28/2023 3:37:00 PM
Surr: BFB	102	15-270		%Rec	1	8/28/2023 3:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	8/28/2023 3:37:00 PM
Toluene	ND	1.0		µg/L	1	8/28/2023 3:37:00 PM
Ethylbenzene	ND	1.0		µg/L	1	8/28/2023 3:37:00 PM
Xylenes, Total	ND	2.0		µg/L	1	8/28/2023 3:37:00 PM
Surr: 4-Bromofluorobenzene	95.6	52.4-148		%Rec	1	8/28/2023 3:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	310	50	*	mg/L	100	8/26/2023 9:06:54 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MCA**
Total Dissolved Solids	1210	50.0	*	mg/L	1	8/30/2023 3:05:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308E14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-4
Project: BMG Landfarm **Collection Date:** 8/23/2023 1:56:00 PM
Lab ID: 2308E14-004 **Matrix:** GROUNDWA **Received Date:** 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/29/2023 12:49:11 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/29/2023 12:49:11 AM
Surr: DNOP	99.2	54.5-177		%Rec	1	8/29/2023 12:49:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/28/2023 3:59:00 PM
Surr: BFB	101	15-270		%Rec	1	8/28/2023 3:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	8/28/2023 3:59:00 PM
Toluene	ND	1.0		µg/L	1	8/28/2023 3:59:00 PM
Ethylbenzene	ND	1.0		µg/L	1	8/28/2023 3:59:00 PM
Xylenes, Total	ND	2.0		µg/L	1	8/28/2023 3:59:00 PM
Surr: 4-Bromofluorobenzene	95.3	52.4-148		%Rec	1	8/28/2023 3:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	150	5.0		mg/L	10	8/26/2023 9:19:19 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MCA**
Total Dissolved Solids	720	50.0	*	mg/L	1	8/30/2023 3:05:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308E14**
Date Reported: **9/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Landfarm **Collection Date:**
Lab ID: 2308E14-005 **Matrix:** TRIP BLANK **Received Date:** 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	8/28/2023 5:27:00 PM
Toluene	ND	1.0		µg/L	1	8/28/2023 5:27:00 PM
Ethylbenzene	ND	1.0		µg/L	1	8/28/2023 5:27:00 PM
Xylenes, Total	ND	2.0		µg/L	1	8/28/2023 5:27:00 PM
Surr: 4-Bromofluorobenzene	95.3	52.4-148		%Rec	1	8/28/2023 5:27:00 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E14**

08-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R99266**	RunNo: **99266**
Prep Date:	Analysis Date: **8/26/2023**	SeqNo: **3620951** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R99266**	RunNo: **99266**
Prep Date:	Analysis Date: **8/26/2023**	SeqNo: **3620953** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E14**

08-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **LCS-77113**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **77113**	RunNo: **99274**
Prep Date: **8/25/2023**	Analysis Date: **8/29/2023**	SeqNo: **3622815** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.5	1.0	2.500	0	101	68.4	146			
Surr: DNOP	0.27		0.2500		108	54.5	177			

Sample ID: **MB-77113**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **77113**	RunNo: **99274**
Prep Date: **8/25/2023**	Analysis Date: **8/28/2023**	SeqNo: **3622816** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.51		0.5000		102	54.5	177			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E14**

08-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **2308E14-001BMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **G99302**	RunNo: **99302**
Prep Date:	Analysis Date: **8/28/2023**	SeqNo: **3625763** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	100	41.2	148			
Surr: BFB	46		20.00		228	15	270			

Sample ID: **2308E14-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **G99302**	RunNo: **99302**
Prep Date:	Analysis Date: **8/28/2023**	SeqNo: **3625764** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	99.7	41.2	148	0.520	20	
Surr: BFB	45		20.00		223	15	270	0	0	

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **G99302**	RunNo: **99302**
Prep Date:	Analysis Date: **8/28/2023**	SeqNo: **3626182** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	96.4	70	130			
Surr: BFB	43		20.00		214	15	270			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **G99302**	RunNo: **99302**
Prep Date:	Analysis Date: **8/28/2023**	SeqNo: **3626183** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		100	15	270			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E14**

08-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R99302**	RunNo: **99302**
Prep Date:	Analysis Date: **8/28/2023**	SeqNo: **3622740** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.1	70	130			
Toluene	19	1.0	20.00	0	96.5	70	130			
Ethylbenzene	20	1.0	20.00	0	98.6	70	130			
Xylenes, Total	59	2.0	60.00	0	98.9	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		94.9	52.4	148			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R99302**	RunNo: **99302**
Prep Date:	Analysis Date: **8/28/2023**	SeqNo: **3622741** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		93.6	52.4	148			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E14**

08-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **MB-77156**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **77156**	RunNo: **99352**
Prep Date: **8/29/2023**	Analysis Date: **8/30/2023**	SeqNo: **3625321** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-77156**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **77156**	RunNo: **99352**
Prep Date: **8/29/2023**	Analysis Date: **8/30/2023**	SeqNo: **3625322** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	989	50.0	1000	0	98.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2308E14 | RcptNo: 1

Received By: Juan Rojas | 8/25/2023 7:10:00 AM

Completed By: Tracy Casarrubias | 8/25/2023 9:17:26 AM

Reviewed By: JA 8-25-23

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° 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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: TN 8/29/23 TN 8/25/23

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	3.8	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Animas Environmental Services	Turn-Around Time: ☒ Standard ☐ Rush
	Project Name: BMG Landfarm
Mailing Address: P.O. Box 8	
Farmington, NM 87499-0008	Project #: AES 040605
Phone #: 720-537-6650	
Email or Fax#: atodd@animasenvironmental.com	Project Manager: Angela Todd
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other	Sampler:
☐ EDD (Type)	On Ice: ~~☐~~ Yes ☐ No
	# of Coolers: 1 (1oz)
	Cooler Temp(including CF): 3.8-0=3.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2308E14	BTEX via Method 8021	TPH GRO / DRO / MRO via EPA8015M/D	Chlorides via EPA300.0	Total Dissolved Solids via SM2540C
8-23-23	13:30	GW	MW-1	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 2-None cool	001	x	x	x	x
	14:44 ~~14:44~~	GW	MW-2	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 2-None cool	002	x	x	x	x
	14:13	GW	MW-3	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 2-None cool	003	x	x	x	x
	13:56	GW	MW-4	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 2-None cool	004	x	x	x	x
		W	Trip Blank	(2) 40 mL glass	cool	005	x			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/24/23	1355				8/24/23	1355
8/24/23	1756			courier	8/25/23	7:10

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 11, 2023

Angela Todd

Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL:
FAX:

RE: BMG Landfarm TZ Soil Samples OrderNo.: 2308E15

Dear Angela Todd:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/25/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2308E15**
Date Reported: **9/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 TZ CS-1
Project: BMG Landfarm TZ Soil Samples
Collection Date: 8/23/2023 10:09:00 AM
Lab ID: 2308E15-001 **Matrix:** SOIL
Received Date: 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	110	9.3		mg/Kg	1	9/2/2023 10:43:16 AM
Motor Oil Range Organics (MRO)	210	47		mg/Kg	1	9/2/2023 10:43:16 AM
Surr: DNOP	125	69-147		%Rec	1	9/2/2023 10:43:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2023 2:27:12 PM
Surr: BFB	93.2	15-244		%Rec	1	9/1/2023 2:27:12 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	8/30/2023 9:49:07 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308E15**
Date Reported: **9/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 TZ CS-1
Project: BMG Landfarm TZ Soil Samples
Collection Date: 8/23/2023 10:38:00 AM
Lab ID: 2308E15-002 **Matrix:** SOIL
Received Date: 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	200	9.7		mg/Kg	1	9/2/2023 2:42:29 PM
Motor Oil Range Organics (MRO)	340	49		mg/Kg	1	9/2/2023 2:42:29 PM
Surr: DNOP	124	69-147		%Rec	1	9/2/2023 2:42:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/1/2023 2:50:49 PM
Surr: BFB	95.0	15-244		%Rec	1	9/1/2023 2:50:49 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	8/30/2023 10:01:32 PM

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	Above Quantitation Range/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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2308E15**
Date Reported: **9/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 TZ CS-1
Project: BMG Landfarm TZ Soil Samples
Collection Date: 8/23/2023 11:13:00 AM
Lab ID: 2308E15-003 **Matrix:** SOIL
Received Date: 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	170	9.9		mg/Kg	1	9/2/2023 3:54:31 PM
Motor Oil Range Organics (MRO)	300	49		mg/Kg	1	9/2/2023 3:54:31 PM
Surr: DNOP	125	69-147		%Rec	1	9/2/2023 3:54:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/1/2023 3:38:08 PM
Surr: BFB	95.2	15-244		%Rec	1	9/1/2023 3:38:08 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	8/30/2023 10:13:57 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308E15**
Date Reported: **9/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 TZ CS-1
Project: BMG Landfarm TZ Soil Samples
Collection Date: 8/23/2023 11:41:00 AM
Lab ID: 2308E15-004 **Matrix:** SOIL
Received Date: 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	39	9.4		mg/Kg	1	9/2/2023 5:06:28 PM
Motor Oil Range Organics (MRO)	60	47		mg/Kg	1	9/2/2023 5:06:28 PM
Surr: DNOP	127	69-147		%Rec	1	9/2/2023 5:06:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2023 4:01:51 PM
Surr: BFB	94.3	15-244		%Rec	1	9/1/2023 4:01:51 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	61		mg/Kg	20	8/30/2023 10:26:22 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E15**

11-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Sample ID: **MB-77199**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **77199**	RunNo: **99351**							
Prep Date: **8/30/2023**	Analysis Date: **8/30/2023**	SeqNo: **3626420**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-77199**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **77199**	RunNo: **99351**							
Prep Date: **8/30/2023**	Analysis Date: **8/30/2023**	SeqNo: **3626421**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E15**

11-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Sample ID: **LCS-77177**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77177**	RunNo: **99380**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627016** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		5.000		114	69	147			

Sample ID: **LCS-77185**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77185**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627017** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	121	61.9	130			
Surr: DNOP	6.6		5.000		131	69	147			

Sample ID: **MB-77177**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77177**	RunNo: **99380**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627018** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	69	147			

Sample ID: **MB-77185**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77185**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627019** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	69	147			

Sample ID: **LCS-77176**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77176**	RunNo: **99380**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627544** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		109	69	147			

Sample ID: **LCS-77208**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77208**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627545** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		119	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E15**

11-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Sample ID: **LCS-77213**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77213**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627547** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		105	69	147			

Sample ID: **MB-77176**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77176**	RunNo: **99380**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627552** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		126	69	147			

Sample ID: **MB-77208**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77208**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627556** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		131	69	147			

Sample ID: **MB-77213**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77213**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627557** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	69	147			

Sample ID: **2308E15-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Cell #1 TZ CS-1**	Batch ID: **77185**	RunNo: **99439**
Prep Date: **8/30/2023**	Analysis Date: **9/2/2023**	SeqNo: **3629688** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140	9.4	47.21	107.2	64.8	54.2	135			
Surr: DNOP	5.9		4.721		126	69	147			

Sample ID: **2308E15-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Cell #1 TZ CS-1**	Batch ID: **77185**	RunNo: **99439**
Prep Date: **8/30/2023**	Analysis Date: **9/2/2023**	SeqNo: **3629691** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	180	9.5	47.71	107.2	143	54.2	135	24.0	29.2	S
Surr: DNOP	6.2		4.771		131	69	147	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E15**

11-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm TZ Soil Samples

Sample ID: **lcs-77179**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **77179**	RunNo: **99366**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627634** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	70	130			
Surr: BFB	2000		1000		203	15	244			

Sample ID: **lcs-77198**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **77198**	RunNo: **99366**
Prep Date: **8/30/2023**	Analysis Date: **9/1/2023**	SeqNo: **3627635** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		193	15	244			

Sample ID: **mb-77198**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **77198**	RunNo: **99366**
Prep Date: **8/30/2023**	Analysis Date: **9/1/2023**	SeqNo: **3627636** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.9	15	244			

Sample ID: **mb-77179**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **77179**	RunNo: **99366**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627706** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.3	15	244			

Sample ID: **lcs-77172**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **77172**	RunNo: **99411**
Prep Date: **8/29/2023**	Analysis Date: **9/2/2023**	SeqNo: **3628857** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		191	15	244			

Sample ID: **mb-77172**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **77172**	RunNo: **99411**
Prep Date: **8/29/2023**	Analysis Date: **9/2/2023**	SeqNo: **3628859** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.5	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2308E15 | RcptNo: 1

Received By: Juan Rojas 8/25/2023 7:10:00 AM

Completed By: Tracy Casarrubias 8/25/2023 9:28:50 AM

Reviewed By: 8-25-23

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° 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 ☑	# of preserved bottles checked for pH: (<2 or >12 unless noted)
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 ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: SCM 8/25/23

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	3.8	Good	Yes	Yogi		

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#: atodd@animasenvironmental.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
BMG Landfarm - TZ soil samples

Project #:
AES 040605

Project Manager:
Angela Todd

Sampler:

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 Yogi

Cooler Temp(including CF): 3.8-0=3.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2308E15	Chlorides via Method 300.0	TPH GRO / DRO / MRO via Method 8015	Analysis Request
8-23-23	10:09	Soil	Cell #1 TZ CS-1	1 - 4 oz jar	Cool	001	X	X	
8-23-23	10:38	Soil	Cell #2 TZ CS-1	1 - 4 oz jar	Cool	002	X	X	
8-23-23	11:13	Soil	Cell #3 TZ CS-1	1 - 4 oz jar	Cool	003	X	X	
8-23-23	11:41	Soil	Cell #4 TZ CS-1	1 - 4 oz jar	Cool	004	X	X	

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/24/23	1355				8/24/23	1355
8/24/23	1754			Courier	8/25/23	7:10

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 12, 2023

Angela Todd

Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL:
FAX:

RE: BMG Landfarm VZ Soil Samples OrderNo.: 2308E17

Dear Angela Todd:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/25/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 11, 2023.

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. 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. All samples are reported as received unless otherwise indicated.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2308E17**
Date Reported: **9/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 VZ DS-1
Project: BMG Landfarm VZ Soil Samples
Collection Date: 8/23/2023 9:51:00 AM
Lab ID: 2308E17-001 **Matrix:** SOIL
Received Date: 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/1/2023 2:36:31 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/1/2023 2:36:31 AM
Surr: DNOP	94.6	69-147		%Rec	1	9/1/2023 2:36:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/1/2023 4:25:33 PM
Surr: BFB	101	15-244		%Rec	1	9/1/2023 4:25:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.025		mg/Kg	1	9/1/2023 4:25:33 PM
Toluene	ND	0.050		mg/Kg	1	9/1/2023 4:25:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/1/2023 4:25:33 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/1/2023 4:25:33 PM
Surr: 4-Bromofluorobenzene	109	39.1-146		%Rec	1	9/1/2023 4:25:33 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	290	60		mg/Kg	20	8/30/2023 10:38:47 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308E17**
Date Reported: **9/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 VZ DS-1
Project: BMG Landfarm VZ Soil Samples
Collection Date: 8/23/2023 10:21:00 AM
Lab ID: 2308E17-002 **Matrix:** SOIL
Received Date: 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	24	9.8		mg/Kg	1	9/1/2023 3:01:10 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/1/2023 3:01:10 AM
Surr: DNOP	96.8	69-147		%Rec	1	9/1/2023 3:01:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/1/2023 4:49:17 PM
Surr: BFB	98.2	15-244		%Rec	1	9/1/2023 4:49:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	9/1/2023 4:49:17 PM
Toluene	ND	0.048		mg/Kg	1	9/1/2023 4:49:17 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/1/2023 4:49:17 PM
Xylenes, Total	ND	0.096		mg/Kg	1	9/1/2023 4:49:17 PM
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	9/1/2023 4:49:17 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	8/30/2023 10:51:11 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308E17**
Date Reported: **9/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ DS-1
Project: BMG Landfarm VZ Soil Samples
Collection Date: 8/23/2023 10:53:00 AM
Lab ID: 2308E17-003 **Matrix:** SOIL
Received Date: 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/1/2023 3:25:50 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/1/2023 3:25:50 AM
Surr: DNOP	85.9	69-147		%Rec	1	9/1/2023 3:25:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/1/2023 5:13:02 PM
Surr: BFB	99.3	15-244		%Rec	1	9/1/2023 5:13:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.024		mg/Kg	1	9/1/2023 5:13:02 PM
Toluene	ND	0.048		mg/Kg	1	9/1/2023 5:13:02 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/1/2023 5:13:02 PM
Xylenes, Total	ND	0.095		mg/Kg	1	9/1/2023 5:13:02 PM
Surr: 4-Bromofluorobenzene	110	39.1-146		%Rec	1	9/1/2023 5:13:02 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	8/30/2023 6:50:16 PM

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2308E17**
Date Reported: **9/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 VZ DS-1
Project: BMG Landfarm VZ Soil Samples
Collection Date: 8/23/2023 11:28:00 AM
Lab ID: 2308E17-004 **Matrix:** SOIL
Received Date: 8/25/2023 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/1/2023 4:14:42 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/1/2023 4:14:42 AM
Surr: DNOP	141	69-147		%Rec	1	9/1/2023 4:14:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/1/2023 5:36:47 PM
Surr: BFB	97.0	15-244		%Rec	1	9/1/2023 5:36:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: **JJP**
Benzene	ND	0.023		mg/Kg	1	9/1/2023 5:36:47 PM
Toluene	ND	0.047		mg/Kg	1	9/1/2023 5:36:47 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/1/2023 5:36:47 PM
Xylenes, Total	ND	0.094		mg/Kg	1	9/1/2023 5:36:47 PM
Surr: 4-Bromofluorobenzene	108	39.1-146		%Rec	1	9/1/2023 5:36:47 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	8/30/2023 7:27:18 PM

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	Above Quantitation Range/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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E17**

12-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: **MB-77199**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **77199**	RunNo: **99351**
Prep Date: **8/30/2023**	Analysis Date: **8/30/2023**	SeqNo: **3626420** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-77199**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **77199**	RunNo: **99351**
Prep Date: **8/30/2023**	Analysis Date: **8/30/2023**	SeqNo: **3626421** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	90	110			

Sample ID: **MB-77219**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **77219**	RunNo: **99393**
Prep Date: **8/30/2023**	Analysis Date: **8/30/2023**	SeqNo: **3626972** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-77219**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **77219**	RunNo: **99393**
Prep Date: **8/30/2023**	Analysis Date: **8/30/2023**	SeqNo: **3626973** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E17**

12-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: **LCS-77185**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77185**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627017** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	121	61.9	130			
Surr: DNOP	6.6		5.000		131	69	147			

Sample ID: **MB-77185**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77185**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627019** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	69	147			

Sample ID: **LCS-77208**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **77208**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627545** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		119	69	147			

Sample ID: **MB-77208**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **77208**	RunNo: **99380**
Prep Date: **8/30/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627556** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		131	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E17**

12-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: **lcs-77179**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **77179**	RunNo: **99366**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627634** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	70	130			
Surr: BFB	2000		1000		203	15	244			

Sample ID: **lcs-77198**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **77198**	RunNo: **99366**
Prep Date: **8/30/2023**	Analysis Date: **9/1/2023**	SeqNo: **3627635** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		193	15	244			

Sample ID: **mb-77198**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **77198**	RunNo: **99366**
Prep Date: **8/30/2023**	Analysis Date: **9/1/2023**	SeqNo: **3627636** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.9	15	244			

Sample ID: **mb-77179**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **77179**	RunNo: **99366**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627706** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.3	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E17**

12-Sep-23

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: **LCS-77179**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **77179**	RunNo: **99366**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627739** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	70	130			
Toluene	1.1	0.050	1.000	0	108	70	130			
Ethylbenzene	1.1	0.050	1.000	0	111	70	130			
Xylenes, Total	3.3	0.10	3.000	0	112	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	39.1	146			

Sample ID: **LCS-77198**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **77198**	RunNo: **99366**
Prep Date: **8/30/2023**	Analysis Date: **9/1/2023**	SeqNo: **3627740** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	39.1	146			

Sample ID: **mb-77198**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **77198**	RunNo: **99366**
Prep Date: **8/30/2023**	Analysis Date: **9/1/2023**	SeqNo: **3627741** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	39.1	146			

Sample ID: **mb-77179**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **77179**	RunNo: **99366**
Prep Date: **8/29/2023**	Analysis Date: **8/31/2023**	SeqNo: **3627742** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2308E17 | RcptNo: 1

Received By: Juan Rojas 8/25/2023 7:10:00 AM

Completed By: Tracy Casarrubias 8/25/2023 9:55:42 AM

Reviewed By: JA 8-25-23

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° 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 ☐	# of preserved bottles checked for pH: / (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: SCM 8/25/23

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	3.8	Good	Yes	Yogi		

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#: atodd@animasenvironmental.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
BMG Landfarm - VZ soil samples

Project #:
AES 040605

Project Manager:
Angela Todd

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Yes

Cooler Temp(including CF): 3.8-0=3.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2308E17	BTEX via Method 8021B	TPH GRO/DRO/MRO via EPA8015M/D	Chlorides via Method 300.0
8-23-23	9:51	Soil	Cell #1 VZ DS-1	1 - 4 oz jar	Cool	001	X	X	X
8-23-23	10:21	Soil	Cell #2 VZ DS-1	1 - 4 oz jar	Cool	002	X	X	X
8-23-23	10:53	Soil	Cell #3 VZ DS-1	1 - 4 oz jar	Cool	003	X	X	X
8-23-23	11:28	Soil	Cell #4 VZ DS-1	1 - 4 oz jar	Cool	004	X	X	X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/24/23	1355				8/24/23	1355
8/24/23	1754			courier	8/25/23	7:10

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.

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 29, 2023

Angela Todd
Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX: (505) 324-2022

RE: BMG Landfarm OrderNo.: 2312023

Dear Angela Todd:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 12/1/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2312023**
Date Reported: **12/29/2023**

CLIENT: Animas Environmental Services **Client Sample ID:** MW-1
Project: BMG Landfarm **Collection Date:** 11/29/2023 12:31:00 PM
Lab ID: 2312023-001 **Matrix:** GROUNDWA **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	55	2.5		mg/L	5	12/1/2023 7:40:23 PM	R101547
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	740	250	*D	mg/L	1	12/7/2023 4:14:00 PM	79174
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/4/2023 10:02:53 PM	79115
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/4/2023 10:02:53 PM	79115
Surr: DNOP	139	54.5-177		%Rec	1	12/4/2023 10:02:53 PM	79115
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/4/2023 5:07:00 PM	GW1015
Surr: BFB	96.8	15-270		%Rec	1	12/4/2023 5:07:00 PM	GW1015
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	12/4/2023 5:07:00 PM	R101579
Toluene	ND	1.0		µg/L	1	12/4/2023 5:07:00 PM	R101579
Ethylbenzene	ND	1.0		µg/L	1	12/4/2023 5:07:00 PM	R101579
Xylenes, Total	ND	2.0		µg/L	1	12/4/2023 5:07:00 PM	R101579
Surr: 4-Bromofluorobenzene	95.9	52.4-148		%Rec	1	12/4/2023 5:07:00 PM	R101579

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312023**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-2
Project: BMG Landfarm **Collection Date:** 11/29/2023 1:43:00 PM
Lab ID: 2312023-002 **Matrix:** GROUNDWA **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	150	10		mg/L	20	12/1/2023 8:18:59 PM	R101547
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	704	100	*D	mg/L	1	12/7/2023 4:14:00 PM	79174
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/4/2023 10:26:23 PM	79115
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/4/2023 10:26:23 PM	79115
Surr: DNOP	139	54.5-177		%Rec	1	12/4/2023 10:26:23 PM	79115
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/4/2023 6:12:00 PM	GW1015
Surr: BFB	99.6	15-270		%Rec	1	12/4/2023 6:12:00 PM	GW1015
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	12/4/2023 6:12:00 PM	R101579
Toluene	ND	1.0		µg/L	1	12/4/2023 6:12:00 PM	R101579
Ethylbenzene	ND	1.0		µg/L	1	12/4/2023 6:12:00 PM	R101579
Xylenes, Total	ND	2.0		µg/L	1	12/4/2023 6:12:00 PM	R101579
Surr: 4-Bromofluorobenzene	96.6	52.4-148		%Rec	1	12/4/2023 6:12:00 PM	R101579

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2312023**
Date Reported: **12/29/2023**

CLIENT: Animas Environmental Services **Client Sample ID:** MW-3
Project: BMG Landfarm **Collection Date:** 11/29/2023 1:17:00 PM
Lab ID: 2312023-003 **Matrix:** GROUNDWA **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	410	25	*	mg/L	50	12/15/2023 10:52:39 AM	R101873
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	1240	250	*D	mg/L	1	12/7/2023 4:14:00 PM	79174
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/4/2023 10:49:52 PM	79115
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/4/2023 10:49:52 PM	79115
Surr: DNOP	139	54.5-177		%Rec	1	12/4/2023 10:49:52 PM	79115
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/4/2023 6:55:00 PM	GW1015
Surr: BFB	107	15-270		%Rec	1	12/4/2023 6:55:00 PM	GW1015
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	12/4/2023 6:55:00 PM	R101579
Toluene	ND	1.0		µg/L	1	12/4/2023 6:55:00 PM	R101579
Ethylbenzene	ND	1.0		µg/L	1	12/4/2023 6:55:00 PM	R101579
Xylenes, Total	ND	2.0		µg/L	1	12/4/2023 6:55:00 PM	R101579
Surr: 4-Bromofluorobenzene	98.4	52.4-148		%Rec	1	12/4/2023 6:55:00 PM	R101579

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2312023**
Date Reported: **12/29/2023**

CLIENT: Animas Environmental Services **Client Sample ID:** MW-4
Project: BMG Landfarm **Collection Date:** 11/29/2023 12:59:00 PM
Lab ID: 2312023-004 **Matrix:** GROUNDWA **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	110	10		mg/L	20	12/1/2023 9:36:12 PM	R101547
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	723	50.0	*	mg/L	1	12/7/2023 4:14:00 PM	79174
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/4/2023 11:13:19 PM	79115
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/4/2023 11:13:19 PM	79115
Surr: DNOP	133	54.5-177		%Rec	1	12/4/2023 11:13:19 PM	79115
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/4/2023 7:17:00 PM	GW1015
Surr: BFB	99.4	15-270		%Rec	1	12/4/2023 7:17:00 PM	GW1015
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	12/4/2023 7:17:00 PM	R101579
Toluene	ND	1.0		µg/L	1	12/4/2023 7:17:00 PM	R101579
Ethylbenzene	ND	1.0		µg/L	1	12/4/2023 7:17:00 PM	R101579
Xylenes, Total	ND	2.0		µg/L	1	12/4/2023 7:17:00 PM	R101579
Surr: 4-Bromofluorobenzene	96.8	52.4-148		%Rec	1	12/4/2023 7:17:00 PM	R101579

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312023**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Landfarm **Collection Date:**
Lab ID: 2312023-005 **Matrix:** TRIP BLANK **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	12/4/2023 7:38:00 PM	R101579
Toluene	ND	1.0		µg/L	1	12/4/2023 7:38:00 PM	R101579
Ethylbenzene	ND	1.0		µg/L	1	12/4/2023 7:38:00 PM	R101579
Xylenes, Total	ND	2.0		µg/L	1	12/4/2023 7:38:00 PM	R101579
Surr: 4-Bromofluorobenzene	99.6	52.4-148		%Rec	1	12/4/2023 7:38:00 PM	R101579

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312023**

29-Dec-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R101547**	RunNo: **101547**							
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3738674**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R101547**	RunNo: **101547**							
Prep Date:	Analysis Date: **12/1/2023**	SeqNo: **3738675**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.3	90	110			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756389**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756390**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.2	90	110			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756424**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756425**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312023**

29-Dec-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R101873**	RunNo: **101873**
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756452** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R101873**	RunNo: **101873**
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756453** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312023**

29-Dec-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **MB-79115**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **79115**	RunNo: **101583**
Prep Date: **12/4/2023**	Analysis Date: **12/4/2023**	SeqNo: **3740844** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.67		0.5000		134	54.5	177			

Sample ID: **LCS-79115**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **79115**	RunNo: **101583**
Prep Date: **12/4/2023**	Analysis Date: **12/4/2023**	SeqNo: **3740845** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.3	1.0	2.500	0	132	57	147			
Surr: DNOP	0.32		0.2500		130	54.5	177			

Sample ID: **2312023-004BMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-4**	Batch ID: **79115**	RunNo: **101583**
Prep Date: **12/4/2023**	Analysis Date: **12/4/2023**	SeqNo: **3740860** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.4	1.0	2.500	0	137	47.3	147			
Surr: DNOP	0.33		0.2500		133	54.5	177			

Sample ID: **2312023-004BMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-4**	Batch ID: **79115**	RunNo: **101583**
Prep Date: **12/4/2023**	Analysis Date: **12/5/2023**	SeqNo: **3740861** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.5	1.0	2.500	0	142	47.3	147	3.24	20	
Surr: DNOP	0.34		0.2500		135	54.5	177	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312023**

29-Dec-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **GW101579**	RunNo: **101579**
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3741429** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	91.2	70	130			
Surr: BFB	43		20.00		217	15	270			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **GW101579**	RunNo: **101579**
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3741432** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	21		20.00		106	15	270			

Sample ID: **2312023-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **GW101579**	RunNo: **101579**
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3741435** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.44	0.050	0.5000	0	87.7	41.2	148			
Surr: BFB	44		20.00		218	15	270			

Sample ID: **2312023-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **GW101579**	RunNo: **101579**
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3741437** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.44	0.050	0.5000	0	88.5	41.2	148	0.908	20	
Surr: BFB	44		20.00		220	15	270	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312023**

29-Dec-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R101579**	RunNo: **101579**
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3741668** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	21	1.0	20.00	0	106	70	130			
Ethylbenzene	22	1.0	20.00	0	108	70	130			
Xylenes, Total	65	2.0	60.00	0	109	70	130			
Surr: 4-Bromofluorobenzene	21		20.00		104	52.4	148			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R101579**	RunNo: **101579**
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3741669** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		103	52.4	148			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312023**

29-Dec-23

Client: Animas Environmental Services

Project: BMG Landfarm

Sample ID: **MB-79174**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **79174**	RunNo: **101684**
Prep Date: **12/6/2023**	Analysis Date: **12/7/2023**	SeqNo: **3745622** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-79174**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **79174**	RunNo: **101684**
Prep Date: **12/6/2023**	Analysis Date: **12/7/2023**	SeqNo: **3745623** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1070	50.0	1000	0	107	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 2312023 RcptNo: 1

Received By: Cheyenne Cason 12/1/2023 7:26:00 AM

Completed By: Cheyenne Cason 12/1/2023 9:55:33 AM

Reviewed By: JN 12/1/23

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° 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: 12-1-23

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	4.9	Good	Not Present	Yogi		
2	0.5	Good	Not Present	Yogi		

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#: atodd@animasenvironmental.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush_____

Project Name:
BMG Landfarm

Project #:
AES 040605

Project Manager:
Angela Todd

Sampler: CL/JO

On Ice: ☒ Yes ☐ No Yog;

# of Coolers: 2 4.8+0.1=4.9

Cooler Temp(including CF): 0.4+0.1=0.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2312023	BTEX via Method 8021	TPH GRO / DRO / MRO via EPA8015M/D	Chlorides via EPA300.0	Total Dissolved Solids via SM2540C
11-29-23	1231	GW	MW-1	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 2-None cool	001	x	x	x	x
	1343	GW	MW-2	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 2-None cool	002	x	x	x	x
	1317	GW	MW-3	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 2-None cool	003	x	x	x	x
	1254	GW	MW-4	(5) 40 mL glass (1) 250 mL amber glass (1) 250 mL plastic	5-HgCl2 2-None cool	004	x	x	x	x
		W	Trip Blank	(2) 40 mL glass	cool	005	x			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/30/23	1439				11/30/23	1439
11/30/23	1750			Courier	12/1/23	0726

Remarks:

Please direct-bill this project to BMG.

* Per Sample Bottles - CMC 12/1/23

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.

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Eurofins Environment Testing South Central, LLC
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Albuquerque, NM 87109
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Website: www.hallenvironmental.com

December 11, 2023

Angela Todd
Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX: (505) 324-2022

RE: BMG Landfarm VZ Soil Samples OrderNo.: 2312038

Dear Angela Todd:

Eurofins Environment Testing South Central, LLC received 4 sample(s) on 12/1/2023 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2312038**
Date Reported: **12/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 VZ DS-1
Project: BMG Landfarm VZ Soil Samples
Collection Date: 11/29/2023 10:44:00 AM
Lab ID: 2312038-001 **Matrix:** SOIL **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/6/2023 1:08:06 PM	79166
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/6/2023 1:08:06 PM	79166
Surr: DNOP	79.6	69-147		%Rec	1	12/6/2023 1:08:06 PM	79166
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/6/2023 3:18:58 PM	79162
Surr: BFB	94.8	15-244		%Rec	1	12/6/2023 3:18:58 PM	79162

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312038**
Date Reported: **12/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 VZ DS-1
Project: BMG Landfarm VZ Soil Samples
Collection Date: 11/29/2023 11:00:00 AM
Lab ID: 2312038-002 **Matrix:** SOIL **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/6/2023 1:18:43 PM	79166
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/6/2023 1:18:43 PM	79166
Surr: DNOP	93.3	69-147		%Rec	1	12/6/2023 1:18:43 PM	79166
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2023 3:42:21 PM	79162
Surr: BFB	95.1	15-244		%Rec	1	12/6/2023 3:42:21 PM	79162

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312038**
Date Reported: **12/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ DS-1
Project: BMG Landfarm VZ Soil Samples
Collection Date: 11/29/2023 11:16:00 AM
Lab ID: 2312038-003 **Matrix:** SOIL **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/6/2023 1:29:21 PM	79166
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/6/2023 1:29:21 PM	79166
Surr: DNOP	82.3	69-147		%Rec	1	12/6/2023 1:29:21 PM	79166
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/6/2023 4:05:48 PM	79162
Surr: BFB	91.7	15-244		%Rec	1	12/6/2023 4:05:48 PM	79162

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312038**
Date Reported: **12/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 VZ DS-1
Project: BMG Landfarm VZ Soil Samples
Collection Date: 11/29/2023 11:31:00 AM
Lab ID: 2312038-004 **Matrix:** SOIL **Received Date:** 12/1/2023 7:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	12/6/2023 1:40:02 PM	79166
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	12/6/2023 1:40:02 PM	79166
Surr: DNOP	92.6	69-147		%Rec	1	12/6/2023 1:40:02 PM	79166
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/6/2023 4:29:21 PM	79162
Surr: BFB	90.4	15-244		%Rec	1	12/6/2023 4:29:21 PM	79162

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312038**

11-Dec-23

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: **LCS-79166**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79166**	RunNo: **101659**
Prep Date: **12/5/2023**	Analysis Date: **12/6/2023**	SeqNo: **3744237** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.3	61.9	130			
Surr: DNOP	4.5		5.000		90.1	69	147			

Sample ID: **MB-79166**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79166**	RunNo: **101659**
Prep Date: **12/5/2023**	Analysis Date: **12/6/2023**	SeqNo: **3744239** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	69	147			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312038**

11-Dec-23

Client: Animas Environmental Services

Project: BMG Landfarm VZ Soil Samples

Sample ID: **lcs-79162**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **79162**	RunNo: **101655**
Prep Date: **12/5/2023**	Analysis Date: **12/6/2023**	SeqNo: **3744203** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.5	70	130			
Surr: BFB	1800		1000		179	15	244			

Sample ID: **mb-79162**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **79162**	RunNo: **101655**
Prep Date: **12/5/2023**	Analysis Date: **12/6/2023**	SeqNo: **3744205** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.5	15	244			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 2312038 RcptNo: 1

Received By: Cheyenne Cason 12/1/2023 7:26:00 AM

Completed By: Cheyenne Cason 12/1/2023 10:49:39 AM

Reviewed By: 12-1-23

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° 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: SCM 12/1/23

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	4.9	Good	Not Present	Yogi		
2	0.5	Good	Not Present	Yogi		

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#: atodd@animasenvironmental.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
BMG Landfarm - VZ soil samples

Project #:
AES 040605

Project Manager:
Angela Todd

Sampler: CL/JO

On Ice: ☒ Yes ☐ No Yes

# of Coolers: 2 4.8+0.1 = 4.9

Cooler Temp(including CF): 0.4+0.1 = 0.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2312038	TPH GRO/DRO/MRO via EPA8015M/D
11-29-23	10:44	Soil	Cell #1 VZ DS-1	1 - 4 oz jar	Cool	001	X
"	11:00	Soil	Cell #2 VZ DS-1	1 - 4 oz jar	Cool	002	X
"	11:16	Soil	Cell #3 VZ DS-1	1 - 4 oz jar	Cool	003	X
"	11:31	Soil	Cell #4 VZ DS-1	1 - 4 oz jar	Cool	004	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/30/23	1439				11/30/23	1439
11/30/23	1750				12/1/23	0726

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.

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 320778

CONDITIONS

Operator: BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	OGRID: 2096
	Action Number: 320778
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
jeffrey.harrison	The Oil Conservation Division (OCD) has completed its review of Benson-Montin-Greer Drilling Corp's (BMG) 2023 Landfarm Annual Monitoring and Sampling Report dated March 5th, 2024, for the facility covered under permit # NM-02-0004. The document has been accepted and retained for records retention purposes only and may contain statements and conclusions which the division does not support or endorse.	4/8/2025