April 15, 2022

Leigh Barr
Jim Griswold
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: 2021 Landfarm Monitoring and Sampling Report
and Notice of Treatment Zone Cell Closure for Cell 1 and 4;
Permit # NM-02-0004
BMG's Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Dear Ms. Barr and Mr. Griswold:

Between March 2021 and January 2022 (Q4 2021), 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 located in the NW¼ NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico. In addition, AES conducted Landfarm sampling in June and October 2021 in accordance with NMAC 19.15.36.15 for treatment zone and NMAC 19.15.26.20.A and 19.15.36.15 for the vadose zone.

Treatment zones in Cells 1 and 4 have met closure criteria specified in NMAC 19.15.36.15.F. Final treatment zone sampling and evaluation of results for Cells 1 and 4 were discussed in the 2020 Landfarm Report.

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

1.2 Monitoring and Sampling, 2014 to 2020

AES personnel conducted quarterly groundwater and landfarm sampling at the facility between March 2014 and December 2020.

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 vadose soil composite samples 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.

Samples were submitted for laboratory analysis. Proposed background thresholds were provided via email by Jim Griswold of NMOCD on October 6, 2016, and subsequent acceptance of background threshold concentrations was confirmed by BMG in October 2016. Background sample locations, concentrations, and associated approved NMOCD background levels were included in previous reports up to the 2020 annual report.

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 BTEX and TPH for all sampling events between 2014 and 2020.

1.2.3 Landfarm Treatment Zone Sampling

Landfarm treatment zone 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 2020.

1.2.4 Landfarm Vadose Zone Sampling

Vadose zone 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 2021

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 18, 2021
- Q2 – June 15, 2021
- Q3 – October 26, 2021; and
- Q4 – January 6, 2022.

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:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8260 or 8021B or 8260B;
- Total Petroleum Hydrocarbons (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.

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. Depth to water, when measurable, was recorded 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 5, 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 21 mg/L in MW-1 in March 2021 to 270 mg/L in June and October 2021 in MW-3. 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 2021

Treatment zones in Cells 1 and 4 have met closure criteria specified in NMAC 19.15.36.15.F. Final treatment zone sampling and evaluation of results for Cells 1 and 4 were discussed in the 2020 Landfarm Report. BMG continues to till Cells 2 and 3 on a regular basis. Additionally, BMG has not added any contaminated soils to any of the Landfarm cells for at least 15 years, and they are working towards meeting requirements for closure of all treatment cells.

3.1 Semi-Annual Treatment Zone Sampling

In accordance with NMAC 19.15.36.15.D, AES personnel collected composite soil samples created from four randomly selected discrete samples from Cells 2 and 3 on April 2, 2020. Samples were collected from 0.5- to 1-foot below the treatment zone (TZ) surface. Sampling dates, periods, sample IDs, and analysis parameters are included as follows:

Treatment Zone Semi-Annual Soil Sampling

Cells Sampled	Sampling Date	Sampling Period	Sample ID	Parameter(s) and USEPA Method(s)
2-3	June 16, 2021	SA1 2021	TZ-Cell #2 and #3	TPH - GRO/DRO/MRO (8015); Chloride (300.0)

3.2 Treatment Zone Analytical Results – Semi-Annual Sampling

For the June 2021 sampling event, TPH and chloride laboratory analytical results were below NMOCD Closure Action Levels in Cells 2 and 3. Note that 2nd Semi-Annual Sampling was not successfully completed because of extended implement weather. Cells 2 and 3 were sampled in February 2022, and those results will be incorporated into the 2022 Annual Report. Results are tabulated in Table 3, sample locations are presented on Figure 2, and laboratory analytical reports are attached.

4.0 Landfarm Vadose Zone

4.1 Vadose Zone Sampling

4.1.1 Quarterly/Semi-Annual

In accordance with NMAC 19.15.36.20.A (Transitional Provisions) for the existing permit and NMAC 19.15.36.15.E.2, four discrete and random soil samples were collected on June 16, 2021, from each of the four cells (Cells #1 through #4) at depths of 2.5 to 2.75 feet below the top of native ground surface.

Additionally, based on vadose sampling results for Cell #3 from April 2020, four discrete samples were collected from Cell #3 on October 26, 2021, at depths of 2.5 to 2.75 feet and in close proximity to the April 2020 sample locations. 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

In accordance with the existing permit as well as transitional conditions outlined in NMAC 19.15.36.20.A, one sample was collected in June 2021 from each cell for laboratory analyses of major cations/anions and RCRA 8 metals.

Vadose Zone Quarterly and Annual Sampling

Sampling Period	Sampling Date	Sample ID	Parameter(s) and USEPA Method(s)
Q2/SA1* 2021	June 16, 2021	Cell #1 VZ S1 – S4 Cell #2 VZ S1 – S4 Cell #3 VZ S1 – S4 Cell #4 VZ S1 – S4	TPH (418.1) BTEX (8021) Chloride (300.0)
Annual Sampling	June 16, 2021	Cell #1 VZ S-1, Cell #2 VZ S-1, Cell #3 VZ S-1, Cell #4 VZ S-1	Cations/Anions (300.0); RCRA Metals (6010B); Mercury (7471)
Q4/SA2* 2021	October 26, 2021	Cell #3 VZ S-1, Cell #3 VZ S-2, Cell #3 VZ S-3, Cell #3 VZ S-4	TPH (418.1) BTEX (8021)

Vadose zone laboratory analytical results from 2021 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

4.2.1 BTEX, TPH, Chloride

- BTEX – concentrations below laboratory detection limit all cells;
- TPH (as GRO/DRO/MRO) – Cell #3 exceedances, with concentrations ranging from 109 to 750 mg/kg; and
- Chloride – Cell #1 (32 and 66 mg/kg) and Cell #2 (29 and 67 mg/kg) exceedances.

Note that weather on October 26, 2021, was rainy and wet, and it is believed that rainwater may have leached from the treatment zone into the base of the test pit at the vadose zone.

4.2.2 Cations/Anions and Metals

Vadose Zone Cations/Anions and Metals –
Concentrations Above Approved Background Levels – June 2021

Parameter	***Cell 1 (mg/kg)***	***Cell 2 (mg/kg)***	***Cell 3 (mg/kg)***	***Cell 4 (mg/kg)***
Fluoride	2.9	--	--	--
Nitrate	11	--	--	11
Sulfate	19	120	47	11
Arsenic	--	--	4.5	--
Barium	140	160	92	110
Chromium	13	8.1	4.4	12
Lead	3.7	44	2.9	5.2

4.2.3 Risk Assessment Discussion, Vadose Zone

Comparison to NMOCD Approved Background Soil Concentrations

Each of the seven parameters listed in 4.2.2 are above NMOCD approved vadose zone background levels. However, when reviewing the range of vadose zone concentrations collected in 2014 and approved in 2016, the 2021 vadose zone concentrations fall within the range observed in background vadose zone concentrations, except for sulfate. Vadose zone concentrations and NMOCD approved background levels are included in Table 4B. Laboratory analytical reports are included in the Appendix.

Comparison to New Mexico Environment Department (NMED) Soil Screening Levels (SSLs)

Vadose zone concentrations were also compared with New Mexico Environment Department (NMED) Soil Screening Levels (SSLs) for Soil Leaching (SL) to Groundwater with a dilution attenuation factor (DAF) of 20 (*NMED SSG Summary Table A-1 June 2019)*. All seven parameters that exceeded NMOCD background levels were found to be *below* NMED SSLs for leaching to groundwater. Parameters exceeding NMOCD

background levels, associated concentrations, and the applicable NMED SSLs are presented in Table 4B.

5.0 Conclusions and Recommendations

5.1 Conclusions

AES personnel conducted quarterly groundwater and landfarm sampling at the BMG Surface Waste Management Facility in 2021. Groundwater was sampled quarterly throughout 2021; the Landfarm was sampled in June and October 2021.

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 2021. However, chloride concentrations have increased steadily over time in MW-3, with variable concentrations in MW-1, MW-2 and MW-4. The evaporation pond liner has been replaced.

Landfarm treatment zone samples had TPH and chloride concentrations below NMOCD Closure Action Levels in Cells 2 and 3.

Vadose zone analytical results reported concentrations exceeding the NMOCD approved background threshold concentrations for TPH and chlorides, as well as seven different parameters in the vadose zone below the Landfarm cells. However, exceedances were compared to applicable NMED SSLs for Soil Leaching to Groundwater with a dilution attenuation factor (DAF) of 20 and therefore are not anticipated to present a risk to human health or the environment.

5.2 Recommendations and Scheduled Activities

- **Groundwater** – Quarterly groundwater monitoring and sampling will continue according to the Sampling and Analysis Plan; AES will continue to evaluate chloride and TDS concentrations in monitor wells.
- **Treatment Zone** –
  - **Cells 1 and 4** - met closure criteria in 2020;
  - **Cells 2 and 3** – AES recommends sampling for TPH, BTEX, chlorides and the full parameter list from NMAC 20.6.2.3103 (A and B) in summer 2022 to confirm if these cells meet closure criteria.
- **Vadose Zone** – Complete quarterly and semi-annual sampling for TPH, BTEX and chlorides.

Q1 2022 sampling was completed at the BMG Landfarm in February 2022 and included 5-year monitoring and sampling in accordance with NMAC 19.15.36.15.E(3) for the applicable constituents listed in Subsections A and B of NMAC 20.6.2.3103. Q2 2022 sampling is tentatively scheduled for early June 2022.

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

Sincerely,

David J. Reese
Environmental Scientist

Elizabeth McNally, P.E.
Principal

Tables

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Figure 2. Treatment Zone Monitoring Locations and Results, 2021
Figure 3. Vadose Zone Monitoring Locations, 2021

Graphs

Graph 1. MW-1 Groundwater Concentrations Over Time
Graph 2. MW-2 Groundwater Concentrations Over Time
Graph 3. MW-3 Groundwater Concentrations Over Time
Graph 4. MW-4 Groundwater Concentrations Over Time

Appendix

Water and Soil Sample Collection Forms and Laboratory Analytical Reports, 2021

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

Shared Documents/Landfarm/Reports/2022.04.15 BMG Landfarm 2021 Report.docx

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	29-Mar-13	NS	40.52	-40.52	12.09	0.707	6.60	7.36	20.5
MW-1	01-Jul-13	NS	41.70	-41.70	13.05	0.868	5.06	7.23	225.5
MW-1	09-Oct-13	NS	40.52	-40.52	12.59	0.831	17.23	7.02	205.5
MW-1	31-Mar-14	NS	40.51	-40.51	11.50	0.734	2.52	7.46	167.7
MW-1	30-Sep-14	NS	39.70	-39.70	12.92	0.901	NM	8.29	297.3
MW-1	02-Dec-14	NS	39.59	-39.59	11.66	0.928	NM	8.14	157.3
MW-1	26-Mar-15	NS	39.45	-39.45	11.99	0.853	2.36	7.53	210.9
MW-1	23-Jun-15	NS	39.50	-39.50	14.52	0.993	NM	7.44	127.8
MW-1	24-Sep-15	NS	39.57	-39.57	12.68	0.877	NM	7.30	85.9
MW-1	10-Dec-15	NS	39.39	-39.39	11.79	0.892	4.27	7.80	-192.0
MW-1	04-Mar-16	NS	39.36	-39.36	12.19	0.023	4.18	7.09	188.1
MW-1	17-Jun-16	NS	39.54	-39.54	12.50	1.242	8.79	6.95	118.2
MW-1	23-Sep-16	NS	39.66	-39.66	11.31	1.108	8.59	7.47	167.0
MW-1	19-Dec-16	NS	39.81	-39.81	10.93	0.995	5.06	7.59	168.6
MW-1	13-Apr-17	NS	39.82	-39.82	NM	NM	NM	NM	NM
MW-1	20-Jun-17	NS	39.88	-39.88	13.23	1.017	5.95	7.35	130.2
MW-1	14-Sep-17	NS	39.95	-39.95	14.11	1.007	7.90	7.35	190.8
MW-1	14-Dec-17	NS	39.64	-39.64	10.09	1.027	4.87	7.56	159.8
MW-1	14-Mar-18	NS	39.70	-39.70	12.09	0.832	6.10	7.52	87.8
MW-1	12-Jun-18	NS	39.93	-39.93	12.3	0.79	4.64	7.23	148.5
MW-1	17-Sep-18	NS	40.02	-40.02	12.7	0.686	4.86	7.49	153.3
MW-1	19-Dec-18	NS	40.12	-40.12	11.5	0.565	3.13	7.55	154.4
MW-1	28-Mar-19	NS	40.22	-40.22	12.3	0.863	6.75	7.35	220.2

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MW-1	03-Jul-19	NS	39.04	-39.04	13.5	0.818	3.16	7.48	139.4
MW-1	30-Sep-19	NS	38.89	-38.89	12.6	0.846	3.09	6.66	163.8
MW-1	30-Jan-20	NS	38.88	-38.88	10.7	1.031	7.08	7.71	163.2
MW-1	26-Mar-20	NS	38.94	-38.94	11.8	1.02	5.45	7.34	184.8
MW-1	24-Jun-20	NS	39.11	-39.11	13.0	1.01	4.52	7.30	173.6
MW-1	29-Sep-20	NS	39.26	-39.26	15.7	0.864	5.14	7.40	168.2
MW-1	08-Dec-20	NS	39.37	-39.37	13.0	0.748	3.33	7.39	159.7
MW-1	18-Mar-21	NS	39.48	-39.48	11.7	0.748	4.29	7.44	98.9
MW-1	15-Jun-21	NS	39.58	-39.58	13.70	0.953	5.59	7.26	138.3
MW-1	26-Oct-21	NS	39.33	-39.33	11.9	0.743	4.75	7.25	224.3
MW-1	06-Jan-22	NS	39.39	-39.39	12.8	0.751	2.8	7.1	239.8
MW-2	29-Mar-13	NS	41.54	-41.54	11.84	1.268	3.74	7.42	20.4
MW-2	01-Jul-13	NS	41.70	-41.70	16.20	0.855	4.83	7.46	175.5
MW-2	09-Oct-13	NS	41.56	-41.56	11.89	0.830	17.26	6.96	208.9
MW-2	31-Mar-14	NS	41.70	-41.70	11.56	0.760	5.51	7.63	94.7
MW-2	01-Oct-14	NS	40.82	-40.82	11.36	0.947	NM	8.18	294.0
MW-2	02-Dec-14	NS	40.68	-40.68	11.18	0.959	NM	8.76	135.2
MW-2	26-Mar-15	NS	40.62	-40.62	11.40	0.907	2.07	7.42	219.3
MW-2	23-Jun-15	NS	40.62	-40.62	13.42	1.004	NM	7.48	136.8
MW-2	24-Sep-15	NS	40.65	-40.65	12.81	0.961	NM	7.34	92.6
MW-2	10-Dec-15	NS	40.51	-40.51	11.46	1.050	5.17	7.85	-165.5
MW-2	04-Mar-16	NS	40.53	-40.53	12.02	1.751	6.41	7.31	176.3

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MW-2	17-Jun-16	NS	40.62	-40.62	12.80	2.209	13.70	7.15	111.0
MW-2	23-Sep-16	NS	40.75	-40.75	11.10	1.987	7.93	7.41	183.4
MW-2	19-Dec-16	NS	40.86	-40.86	10.22	2.209	6.80	7.64	171.6
MW-2	13-Apr-17	NS	40.90	-40.90	NM	NM	NM	NM	NM
MW-2	20-Jun-17	NS	40.94	-40.94	13.04	2.808	8.50	7.36	150.9
MW-2	14-Sep-17	NS	41.01	-41.01	14.25	3.053	10.29	7.37	168.0
MW-2	14-Dec-17	NS	40.70	-40.70	9.87	2.189	6.87	7.53	198.7
MW-2	14-Mar-18	NS	40.74	-40.74	11.76	2.650	8.17	7.54	85.5
MW-2	12-Jun-18	NS	40.97	-40.97	12.1	2.18	7.86	7.24	168.5
MW-2	17-Sep-18	NS	41.06	-41.06	14.1	0.895	7.39	7.54	155.3
MW-2	19-Dec-18	NS	41.14	-41.14	11.0	1.540	5.60	7.43	151.2
MW-2	28-Mar-19	NS	40.52	-40.52	12.1	2.388	3.52	7.22	230.8
MW-2	03-Jul-19	NS	41.25	-41.25	13.0	1.423	4.53	7.57	142.8
MW-2	30-Sep-19	NS	39.93	-39.93	11.9	1.121	4.32	6.63	163.5
MW-2	30-Jan-20	NS	39.94	-39.94	10.7	1.522	9.04	7.74	177.8
MW-2	26-Mar-20	NS	40.01	-40.01	11.4	1.45	6.92	7.40	202.3
MW-2	24-Jun-20	NS	40.15	-40.15	14.0	1.79	6.35	7.32	174.7
MW-2	29-Sep-20	NS	40.31	-40.31	12.1	1.168	6.11	7.36	162.8
MW-2	08-Dec-20	NS	40.40	-40.40	11.8	1.114	6.70	7.40	162.0
MW-2	18-Mar-21	NS	40.51	-40.51	12.3	0.985	5.43	7.09	127.5
MW-2	15-Jun-21	NS	40.63	-40.63	13.26	1.260	8.28	7.35	150.3
MW-2	26-Oct-21	NS	40.41	-40.41	11.8	1.059	7.11	7.16	251.4
MW-2	06-Jan-22	NS	40.42	-40.42	12.2	0.890	3.67	7.2	252.9

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MW-3	29-Mar-13	NS	40.77	-40.77	12.33	1.298	3.82	7.45	16.0
MW-3	01-Jul-13	NS	40.92	-40.92	14.02	0.427	6.21	7.32	131.5
MW-3	09-Oct-13	NS	40.83	-40.83	12.86	0.815	15.23	7.00	210.2
MW-3	31-Mar-14	NS	40.83	-40.83	11.38	0.729	5.33	7.51	144.6
MW-3	30-Sep-14	NS	40.13	-40.13	12.86	0.895	NM	7.96	339.0
MW-3	02-Dec-14	NS	39.98	-39.98	11.21	0.922	NM	8.39	145.9
MW-3	26-Mar-15	NS	39.92	-39.92	11.40	0.878	3.50	7.43	229.2
MW-3	23-Jun-15	NS	39.89	-39.89	13.39	0.919	NM	7.29	145.2
MW-3	24-Sep-15	NS	39.98	-39.98	12.78	0.799	NM	6.24	132.7
MW-3	10-Dec-15	NS	39.81	-39.81	11.22	0.728	3.98	7.66	-147.7
MW-3	04-Mar-16	NS	39.82	-39.82	11.88	0.901	5.71	7.26	164.0
MW-3	17-Jun-16	NS	39.90	-39.90	12.94	0.922	8.04	6.86	92.9
MW-3	23-Sep-16	NS	40.03	-40.03	11.87	0.904	7.74	6.90	236.5
MW-3	19-Dec-16	NS	40.15	-40.15	9.84	0.884	6.33	7.54	166.4
MW-3	13-Apr-17	NS	40.18	-40.18	NM	NM	NM	NM	NM
MW-3	20-Jun-17	NS	40.23	-40.23	13.03	0.961	7.66	7.30	140.7
MW-3	14-Sep-17	NS	40.31	-40.31	13.20	0.982	7.30	7.31	160.5
MW-3	14-Dec-17	NS	40.01	-40.01	11.11	0.923	4.23	6.79	195.7
MW-3	14-Mar-18	NS	40.04	-40.04	12.09	0.825	6.63	7.49	84.9
MW-3	12-Jun-18	NS	40.25	-40.25	12.0	0.81	5.99	7.14	119.9
MW-3	17-Sep-18	NS	40.36	-40.36	13.4	0.770	4.75	7.42	155.9
MW-3	19-Dec-18	NS	40.43	-40.43	11.3	0.92	3.67	7.48	149.4

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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-3	28-Mar-19	NS	39.80	-39.80	12.7	0.898	1.17	7.24	222.7
MW-3	03-Jul-19	NS	39.45	-39.45	12.9	0.959	3.55	7.60	135.0
MW-3	30-Sep-19	NS	39.27	-39.27	13.1	1.017	3.65	6.67	146.4
MW-3	30-Jan-20	NS	39.24	-39.24	11.0	1.314	7.90	7.70	166.8
MW-3	26-Mar-20	NS	39.29	-39.29	11.9	1.35	5.26	7.30	204.0
MW-3	24-Jun-20	NS	39.45	-39.45	12.9	1.51	3.76	7.21	180.9
MW-3	29-Sep-20	NS	39.59	-39.59	13.0	1.295	5.56	7.27	165.0
MW-3	08-Dec-20	NS	39.69	-39.69	12.0	1.273	6.08	7.35	155.7
MW-3	18-Mar-21	NS	39.80	-39.80	13.2	1.304	4.22	7.23	130.1
MW-3	15-Jun-21	NS	39.92	-39.92	13.66	1.610	6.40	7.23	164.9
MW-3	26-Oct-21	NS	39.65	-39.65	12.5	1.260	3.71	7.04	199.2
MW-3	06-Jan-22	NS	39.72	-39.72	12.7	1.210	2.9	6.9	256.4
MW-4	29-Mar-13	NS	41.32	-41.32	11.25	1.388	7.14	7.32	20.6
MW-4	01-Jul-13	NS	41.47	-41.47	13.81	0.890	6.27	6.38	197.7
MW-4	09-Oct-13	NS	41.35	-41.35	12.82	0.840	20.23	7.05	215.1
MW-4	31-Mar-14	NS	41.34	-41.34	12.09	0.757	5.17	7.68	163.1
MW-4	30-Sep-14	NS	40.55	-40.55	12.24	0.940	NM	8.17	276.5
MW-4	02-Dec-14	NS	40.43	-40.43	11.48	0.938	NM	7.96	156.6
MW-4	26-Mar-15	NS	40.34	-40.34	12.08	0.902	2.81	7.33	217.1
MW-4	23-Jun-15	NS	40.36	-40.36	14.12	1.021	NM	7.32	147.3
MW-4	24-Sep-15	NS	40.43	-40.43	12.76	0.931	NM	7.18	99.7
MW-4	10-Dec-15	NS	40.26	-40.26	11.70	1.091	3.91	7.71	-190.2

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-4	04-Mar-16	NS	40.24	-40.24	11.99	1.279	6.52	7.28	162.8
MW-4	17-Jun-16	NS	40.41	-40.41	12.78	1.537	12.28	6.95	104.4
MW-4	23-Sep-16	NS	40.53	-40.53	11.47	1.589	9.68	7.51	174.8
MW-4	19-Dec-16	NS	40.67	-40.67	10.64	1.355	5.98	7.51	170.3
MW-4	13-Apr-17	NS	40.68	-40.68	NM	NM	NM	NM	NM
MW-4	20-Jun-17	NS	40.75	-40.75	13.89	1.336	7.70	7.29	141.9
MW-4	14-Sep-17	NS	40.83	-40.83	14.32	1.354	8.25	7.21	194.3
MW-4	14-Dec-17	NS	40.51	-40.51	10.18	1.387	5.52	7.37	193.6
MW-4	14-Mar-18	NS	40.56	-40.56	12.02	1.089	6.70	7.55	85.1
MW-4	12-Jun-18	NS	40.80	-40.80	12.1	1.03	5.59	7.16	141.6
MW-4	17-Sep-18	NS	40.90	-40.90	14.6	1.18	4.29	7.14	152.7
MW-4	19-Dec-18	NS	40.98	-40.98	11.8	0.94	3.84	7.38	134.7
MW-4	28-Mar-19	NS	39.40	-39.40	12.5	0.712	2.81	7.41	217.3
MW-4	03-Jul-19	NS	39.89	-39.89	12.2	0.760	4.59	7.77	133.4
MW-4	30-Sep-19	NS	39.78	-39.78	12.0	0.829	4.22	6.93	162.6
MW-4	30-Jan-20	NS	39.75	-39.75	10.6	1.129	7.66	7.67	153.9
MW-4	26-Mar-20	NS	39.81	-39.81	11.4	1.15	6.31	7.25	208.8
MW-4	24-Jun-20	NS	39.96	-39.96	12.3	1.05	5.20	7.11	198.1
MW-4	29-Sep-20	NS	40.11	-40.11	11.9	0.812	4.64	7.03	164.4
MW-4	08-Dec-20	NS	40.22	-40.22	11.7	0.811	4.25	7.32	174.0
MW-4	18-Mar-21	NS	40.33	-40.33	11.9	0.863	4.39	7.07	117.3
MW-4	15-Jun-21	NS	40.45	-40.45	13.80	1.107	8.03	7.28	158.4
MW-4	26-Oct-21	NS	40.19	-40.19	11.7	0.770	5.07	7.08	275.3

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-4	06-Jan-22	NS	40.22	-40.22	12.1	0.754	3.6	7.0	250.2
Interstitial Well	29-Mar-13	NS	9.77	-9.77	8.84	261.3	0.84	6.56	9.7
Interstitial Well	01-Jul-13	NS	9.70	-9.70	18.31	86.76	3.79	7.14	9.6
Interstitial Well	09-Oct-13	NS	9.82	-9.82	16.84	148.2	3.60	6.57	34.5
Interstitial Well	31-Mar-14	NS	9.92	-9.92	7.65	139.2	2.01	6.68	93.9
Interstitial Well	01-Oct-14	NS	9.50	-9.50	NM	NM	NM	NM	NM
Interstitial Well	26-Mar-15	NS	9.83	-9.83	NM	NM	NM	NM	NM
Interstitial Well	23-Jun-15	NS	10.66	-10.66	18.36	139.0	0.00	6.82	97.6
Interstitial Well	24-Sep-15	NS	11.33	-11.33	20.42	139.3	2.87	7.06	73.4
Interstitial Well	23-Sep-16	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	19-Dec-16	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	13-Apr-17	NS	10.16	-10.16	NM	NM	NM	NM	NM
Interstitial Well	20-Jun-17	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	14-Sep-17	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	14-Dec-17	NS	NM	NM	NM	NM	NM	NM	NM
Interstitial Well	14-Mar-18	NS	11.12	NM	NM	NM	NM	NM	NM
Interstitial Well	12-Jun-18	NS	10.35	NM	NM	NM	NM	NM	NM
Interstitial Well	17-Sep-18	NS	10.74	NM	NM	NM	NM	NM	NM
Interstitial Well	19-Dec-18	NS	10.18	NM	NM	NM	NM	NM	NM
Interstitial Well	28-Mar-19	NS	10.71	-10.71	NM - Minimal Water Recharge				
Interstitial Well	30-Sep-19	NS	9.91	-9.91	NM - Minimal Water Recharge				
Interstitial Well	30-Jan-20	NS	11.15	-11.15	NM - Insufficient Water				

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)
Interstitial Well	26-Mar-20	NS	11.12	-11.12	NM - Insufficient Water				
Interstitial Well	24-Jun-20	NS	10.58	-10.58	NM - Insufficient Water				
Interstitial Well	29-Sep-20	NS	10.61	-10.61	NM - Insufficient Water				
Interstitial Well	08-Dec-20	NS	10.49	-10.49	NM - Insufficient Water				
Interstitial Well	18-Mar-21	NS	10.02	-10.02	NM - Insufficient Water				
Interstitial Well	15-Jun-21	NS	9.89	-9.89	NM - Insufficient Water				
Interstitial Well	26-Oct-21	NS	10.04	-10.04	NM - Insufficient Water				
Interstitial Well	06-Jan-22	NS	10.36	-10.36	NM - Insufficient Water				

Notes: NM - Not Measured
NS - Not Surveyed

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

Well ID	Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO	DRO	MRO	Chloride	TDS
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Method	8021B	8021B	8021B	8021B	8015D	8015D	8015D	300.0	SM2540C
NM WQCC STANDARD		5	1,000	700	620	0.0101*	0.0167*	NE	NE	NE
MW-1	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	NA	11	654
MW-1	6-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	10	610
MW-1	29-Mar-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	9.6	810
MW-1	1-Jul-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	9.2	640
MW-1	9-Oct-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	9.7	690
MW-1	31-Mar-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	9.2	612
MW-1	30-Sep-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	10	614
MW-1	2-Dec-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	660
MW-1	26-Mar-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	580
MW-1	23-Jun-15	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	61	720
MW-1	24-Sep-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	710
MW-1	10-Dec-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	43	627
MW-1	04-Mar-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	68	666
MW-1	17-Jun-16	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	96	769
MW-1	23-Sep-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	60	687
MW-1	19-Dec-16	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	48	658
MW-1	13-Apr-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	26	690
MW-1	20-Jun-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	25	662
MW-1	14-Sep-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	615
MW-1	14-Dec-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	22	620
MW-1	14-Mar-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	642
MW-1	12-Jun-18	<1.0	<1.0	<1.0	<1.5	<0.050	1.5	<5.0	19	620
MW-1	17-Sep-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	570

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

Well ID	Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO	DRO	MRO	Chloride	TDS
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Method	8021B	8021B	8021B	8021B	8015D	8015D	8015D	300.0	SM2540C
NM WQCC STANDARD		5	1,000	700	620	0.0101*	0.0167*	NE	NE	NE
MW-1	19-Dec-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	595
MW-1	28-Mar-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	120	714
MW-1	03-Jul-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	715
MW-1	30-Sep-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	45	716
MW-1	30-Jan-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	730
MW-1	26-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	23	642
MW-1	24-Jun-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	18	648
MW-1	29-Sep-20	<1.0	<1.0	<1.0	<1.5	<0.050	5.4	<5.0	21	614
MW-1	08-Dec-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	22	634
MW-1	18-Mar-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	21	680
MW-1	15-Jun-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	23	609
MW-1	26-Oct-21	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	640
MW-1	06-Jan-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	740
MW-2	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	NA	30	615
MW-2	6-Dec-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	500
MW-2	29-Mar-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	28	590
MW-2	1-Jul-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	580
MW-2	9-Oct-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	790
MW-2	31-Mar-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	630
MW-2	1-Oct-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	632
MW-2	2-Dec-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	780
MW-2	26-Mar-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	600

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

Well ID	Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO	DRO	MRO	Chloride	TDS
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Method	8021B	8021B	8021B	8021B	8015D	8015D	8015D	300.0	SM2540C
NM WQCC STANDARD		5	1,000	700	620	0.0101*	0.0167*	NE	NE	NE
MW-2	23-Jun-15	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	33	720
MW-2	24-Sep-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	48	740
MW-2	10-Dec-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	170	902
MW-2	04-Mar-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	280	1,040
MW-2	17-Jun-16	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	460	1,400
MW-2	23-Sep-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	380	1,230
MW-2	19-Dec-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	470	1,370
MW-2	13-Apr-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	520	1,770
MW-2	20-Jun-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	770	2,160
MW-2	14-Sep-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	700	2,030
MW-2	14-Dec-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	770	2,400
MW-2	14-Mar-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	790	1,980
MW-2	12-Jun-18	<1.0	<1.0	<1.0	<1.5	<0.050	1.3	<5.0	620	1,890
MW-2	17-Sep-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	580	1,750
MW-2	19-Dec-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	600	1,420
MW-2	28-Mar-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	840	2,020
MW-2	03-Jul-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	310	1,060
MW-2	30-Sep-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	240	1,040
MW-2	30-Jan-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	240	950
MW-2	26-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	250	898
MW-2	24-Jun-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	310	1,030
MW-2	29-Sep-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	270	1,140
MW-2	08-Dec-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	300	902

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

Well ID	Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO	DRO	MRO	Chloride	TDS
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Method	8021B	8021B	8021B	8021B	8015D	8015D	8015D	300.0	SM2540C
NM WQCC STANDARD		5	1,000	700	620	0.0101*	0.0167*	NE	NE	NE
MW-2	18-Mar-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	180	850
MW-2	15-Jun-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	170	670
MW-2	26-Oct-21	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	220	910
MW-2	06-Jan-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	180	748
MW-3	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA	23	690
MW-3	6-Dec-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	600
MW-3	29-Mar-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	20	680
MW-3	1-Jul-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	20	630
MW-3	9-Oct-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	620
MW-3	31-Mar-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	544
MW-3	30-Sep-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	574
MW-3	2-Dec-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	580
MW-3	26-Mar-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	601
MW-3	23-Jun-15	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	24	680
MW-3	24-Sep-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	570
MW-3	10-Dec-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	540
MW-3	04-Mar-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	620
MW-3	17-Jun-16	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	22	600
MW-3	23-Sep-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	561
MW-3	19-Dec-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	24	534
MW-3	13-Apr-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	25	655
MW-3	20-Jun-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	28	590

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

Well ID	Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO	DRO	MRO	Chloride	TDS
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Method	8021B	8021B	8021B	8021B	8015D	8015D	8015D	300.0	SM2540C
NM WQCC STANDARD		5	1,000	700	620	0.0101*	0.0167*	NE	NE	NE
MW-3	14-Sep-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	595
MW-3	14-Dec-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	32	598
MW-3	14-Mar-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	612
MW-3	12-Jun-18	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	37	626
MW-3	17-Sep-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	62	640
MW-3	19-Dec-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	76	688
MW-3	28-Mar-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	85	734
MW-3	03-Jul-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	120	780
MW-3	30-Sep-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	150	855
MW-3	30-Jan-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	160	920
MW-3	26-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	170	772
MW-3	24-Jun-20	<1.0	<1.0	<1.0	<1.0	<0.050	<1.0	<5.0	200	850
MW-3	29-Sep-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	240	1100
MW-3	08-Dec-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	290	960
MW-3	18-Mar-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	260	1020
MW-3	15-Jun-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	270	960
MW-3	26-Oct-21	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	270	1100
MW-3	06-Jan-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	250	1020
MW-4	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA	16	660
MW-4	06-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	760
MW-4	29-Mar-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	750
MW-4	1-Jul-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	10	608

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

Well ID	Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO	DRO	MRO	Chloride	TDS
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Method	8021B	8021B	8021B	8021B	8015D	8015D	8015D	300.0	SM2540C
NM WQCC STANDARD		5	1,000	700	620	0.0101*	0.0167*	NE	NE	NE
MW-4	9-Oct-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	11	690
MW-4	31-Mar-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	12	600
MW-4	30-Sep-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	618
MW-4	2-Dec-14	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	21	770
MW-4	26-Mar-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	615
MW-4	23-Jun-15	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	73	1090
MW-4	24-Sep-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	97	635
MW-4	10-Dec-15	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	250	782
MW-4	04-Mar-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	170	721
MW-4	17-Jun-16	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	290	938
MW-4	23-Sep-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	250	879
MW-4	19-Dec-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	250	800
MW-4	13-Apr-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	180	790
MW-4	20-Jun-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	180	744
MW-4	14-Sep-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	170	775
MW-4	14-Dec-17	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	170	754
MW-4	14-Mar-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	160	694
MW-4	12-Jun-18	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	150	751
MW-4	17-Sep-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	110	930
MW-4	19-Dec-18	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	94	644
MW-4	28-Mar-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	19	594
MW-4	03-Jul-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	84	620
MW-4	30-Sep-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	99	750

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

Well ID	Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO	DRO	MRO	Chloride	TDS
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Method	8021B	8021B	8021B	8021B	8015D	8015D	8015D	300.0	SM2540C
NM WQCC STANDARD		5	1,000	700	620	0.0101*	0.0167*	NE	NE	NE
MW-4	30-Jan-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	110	790
MW-4	26-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	100	930
MW-4	24-Jun-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	63	840
MW-4	29-Sep-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	53	690
MW-4	08-Dec-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	59	676
MW-4	18-Mar-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	66	760
MW-4	15-Jun-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0	79	135
MW-4	26-Oct-21	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	65	830
MW-4	06-Jan-22	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	62	775
Intstl Well	18-Sep-12	<5.0	<5.0	<5.0	<10	<0.25	<3.0	NA	120,000	170,000
Intstl Well	6-Dec-12	<10	<10	<10	<20	<0.50	6.9	<5.0	110,000	159,000
Intstl Well	29-Mar-13	<10	<10	<10	<20	<0.50	3.8	<5.0	98,000	154,000
Intstl Well	1-Jul-13	<10	<10	<10	<20	<0.50	4.6	<5.0	80,000	145,000
Intstl Well	9-Oct-13	<10	<10	<10	<20	<0.50	36	9.5	90,000	144,000
Intstl Well	31-Mar-14	<1.0	<1.0	<1.0	<2.0	<0.050	3.1	<5.0	69,000	146,000
Intstl Well	3-Dec-14	<1.0	<1.0	<1.0	<2.0	0.087	6	<5.0	98,000	133,000
Intstl Well	24-Sep-15	<1.0	<1.0	<1.0	<2.0	0.074	2.8	<5.0	100,000	141,000
Intstl Well	23-Sep-16	<10	<10	<10	<20	<0.50	3.8	<5.0	88,000	138,000
Intstl Well	19-Dec-16	<5.0	<5.0	<5.0	<7.5	<0.25	2.9	<5.0	130,000	147,000
Intstl Well	14-Sep-17	<1.0	<1.0	<1.0	<2.0	<0.050	4.5	<5.0	97,000	118,000
Intstl Well	14-Dec-17	<1.0	<1.0	<1.0	<1.5	0.062	3.8	<5.0	67,000	126,000
Intstl Well	14-Mar-18	<5.0	<5.0	<5.0	<10	<0.25	4.2	<5.0	75,000	122,000

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

Well ID	Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	GRO	DRO	MRO	Chloride	TDS
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Method	8021B	8021B	8021B	8021B	8015D	8015D	8015D	300.0	SM2540C
NM WQCC STANDARD		5	1,000	700	620	0.0101*	0.0167*	NE	NE	NE
Intstl Well	12-Jun-18	<1.0	<1.0	<1.0	<1.5	0.11	3.7	<5.0	75,000	180,000
Intstl Well	17-Sep-18	<1.0	<1.0	<1.0	<2.0	0.13	3.5	<5.0	80,000	135,000
Intstl Well	19-Dec-18	<1.0	<1.0	<1.0	<2.0	0.052	2.8	<5.0	70,000	133,000
Evap Pond	3-Dec-14	190	240	14	88	1.2	9.2	<5.0	74,000	105,000
Evap Pond	24-Sep-15	13	13	1.0	5.6	0.11	2.9	<5.0	87,000	136,000
Evap Pond	19-Dec-16	4.3	23	<5.0	<7.5	0.87	6.1	<5.0	110,000	169,000
Evap Pond	14-Dec-17	44	43	3.9	22	0.53	9.6	<5.0	86,000	164,000
Evap Pond	17-Sep-18	<5.0	<5.0	<5.0	<10	<0.25	9.7	<5.0	180,000	295,000
Evap Pond	26-Oct-21	180	180	12	75	1.2	1.0	<5.0	120,000	218,000

Notes:

*NMED Groundwater Screening Level source: Risk Assessment Guidance for Site Investigations & Remediation Vol. I, Table 6-

< Analyte not detected above listed method limit
NA Not Analyzed
NE Not Established
TPH Total Petroleum Hydrocarbons
GRO Gasoline Range Organics
DRO Diesel Range Organics
MRO Motor Oil Range Organics

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
Treatment Zone	18-Sep-12	NM	<50	2,800	4,200	<0.50	<0.502	<0.503	<1.0	21
Treatment Zone	06-Dec-12	NM	<5.0	960	3,000	<0.50	<0.50	<0.50	<1.0	31
Treatment Zone	29-Mar-13	NM	<5.0	180	420	<0.050	<0.050	<0.050	<0.10	22
Treatment Zone	01-Jul-13	NM	<5.0	880	1,500	<0.050	<0.050	<0.050	<0.10	8.8
Treatment Zone	09-Oct-13	NM	<5.0	2,700	3,100	<0.050	<0.050	<0.050	<0.10	29
Treatment Zone	31-Mar-14	NM	<2.7	470	1,000	<0.027	<0.027	<0.027	<0.055	<30
1	06-May-14	26	NM	NM	NM	NM	NM	NM	NM	120
1	30-Sep-14	NM	<4.7	620	2,200	NM	NM	NM	NM	140
1	02-Dec-14	NM	150	4,500	5,700	NM	NM	NM	NM	56
1	27-Mar-15	5,600	NM	NM	NM	NM	NM	NM	NM	<30
1	24-Sep-15	**1,400**	NM	NM	NM	NM	NM	NM	NM	<30
1	07-Mar-16	1,300	NM	NM	NM	NM	NM	NM	NM	45
1	22-Sep-16	1,100	NM	NM	NM	NM	NM	NM	NM	44
1	13-Apr-17	NM	<4.6	190	690	NM	NM	NM	NM	100
1	20-Sep-17	NM	<4.8	320	700	NM	NM	NM	NM	<30
1	13-Mar-18	NM	<4.9	49	160	NM	NM	NM	NM	240
1	17-Sep-18	NM	<4.9	<9.6	<48	NM	NM	NM	NM	110
1	02-Apr-20	NM	<4.9	18	65	<0.025	<0.049	<0.049	<0.099	18
2	6-May-14	780	NM	NM	NM	NM	NM	NM	NM	50

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
2	30-Sep-14	NM	<4.6	530	880	NM	NM	NM	NM	47
2	2-Dec-14	NM	6.2	1,400	1,200	NM	NM	NM	NM	13
2	27-Mar-15	160	NM	NM	NM	NM	NM	NM	NM	<30
2	24-Sep-15	1,100	NM	NM	NM	NM	NM	NM	NM	32
2	07-Mar-16	2,600	NM	NM	NM	NM	NM	NM	NM	<30
2	22-Sep-16	4,600	NM	NM	NM	NM	NM	NM	NM	38
2	13-Apr-17	NM	<4.7	1,100	2,000	NM	NM	NM	NM	<30
2	20-Sep-17	NM	<4.9	990	1,500	NM	NM	NM	NM	<30
2	13-Mar-18	NM	<4.8	1,500	2,200	NM	NM	NM	NM	<30
2	17-Sep-18	NM	32	2,000	2,600	NM	NM	NM	NM	<30
2	28-Mar-19	NM	<4.6	190	370	NM	NM	NM	NM	<60
2	02-Apr-20	NM	<4.9	630	1,000	NM	NM	NM	NM	<60
2	16-Jun-21	NM	<24	350	850	NM	NM	NM	NM	<60
3	6-May-14	2,300	NM	NM	NM	NM	NM	NM	NM	<30
3	30-Sep-14	NM	10	1,800	2,100	NM	NM	NM	NM	<30
3	2-Dec-14	NM	<4.7	450	640	NM	NM	NM	NM	10
3	27-Mar-15	98	NM	NM	NM	NM	NM	NM	NM	<30
3	24-Sep-15	1,100	NM	NM	NM	NM	NM	NM	NM	<30
3	07-Mar-16	2,900	NM	NM	NM	NM	NM	NM	NM	<30
3	22-Sep-16	2,000	NM	NM	NM	NM	NM	NM	NM	<30

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
3	13-Apr-17	NM	<4.8	360	790	NM	NM	NM	NM	<30
3	20-Sep-17	NM	<4.7	660	1,400	NM	NM	NM	NM	<30
3	13-Mar-18	NM	<5.0	720	1,200	NM	NM	NM	NM	<30
3	17-Sep-18	NM	<4.6	240	420	NM	NM	NM	NM	<30
3	28-Mar-19	NM	<4.7	48	98	NM	NM	NM	NM	<60
3	02-Apr-20	NM	<4.9	870	1,600	NM	NM	NM	NM	<60
3	16-Jun-21	NM	**<4.9**	**41**	140	NM	NM	NM	NM	<60
4	30-Sep-14	NM	<4.7	190	**190**	NM	NM	NM	NM	<30
4	2-Dec-14	NM	<4.6	130	190	NM	NM	NM	NM	29
4	27-Mar-15	2,200	NM	NM	NM	NM	NM	NM	NM	<30
4	24-Sep-15	370	NM	NM	NM	NM	NM	NM	NM	<30
4	07-Mar-16	190	NM	NM	NM	NM	NM	NM	NM	<30
4	22-Sep-16	410	NM	NM	NM	NM	NM	NM	NM	<30
4	13-Apr-17	NM	<5.0	650	1,000	NM	NM	NM	NM	<30
4	20-Sep-17	NM	<4.6	160	270	NM	NM	NM	NM	<30
4	13-Mar-18	NM	<5.0	83	140	NM	NM	NM	NM	<30
4	17-Sep-18	NM	<4.9	10	<46	NM	NM	NM	NM	<30
4	02-Apr-20	NM	<4.9	<9.2	<46	<0.024	<0.049	<0.049	<0.098	<7.5

Notes: < Analyte not detected above listed method limit

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

NM Not Measured

TPH Total Petroleum Hydrocarbons

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
VZ Cell #1	18-Sep-12	NM	<5.0	<10	NM	<0.050	<0.050	<0.050	<0.10	<15	<3.0	14
VZ Cell #1	6-Dec-12	NM	<5.0	240	830	<0.050	<0.050	<0.050	<0.10	66	NM	NM
VZ Cell #1	1-Jul-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	NM	NM
VZ Cell #1	9-Oct-13	NM	<5.0	<9.9	<49	<0.050	<0.050	<0.050	<0.10	19	2.0	8.2
VZ Cell #1	31-Mar-14	21	<3.6	<10	<50	<0.036	<0.036	<0.036	<0.071	<30	NM	NM
VZ Cell #1A	29-Mar-13	NM	<5.0	<10	<51	<0.050	<0.050	<0.050	<0.10	<7.5	<1.5	8.0
Cell #1 S-1	6-May-14	<20	NM	NM	NM	<0.046	<0.046	<0.046	<0.092	<1.5	0.77	1.5
Cell #1 S-1	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #1 S-1	9-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM	NM
Cell #1 S-1	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM	NM
Cell #1 S-1	24-Jun-15	NM	<4.8	<9.8	<49	<0.048	<0.048	<0.048	<0.097	NM	NM	NM
Cell #1 S-1	24-Sep-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.097	<1.5	0.51	2.3
Cell #1 S-1	09-Dec-15	NM	<4.7	<9.7	<48	<0.047	<0.047	<0.047	<0.095	NM	NM	NM
Cell #1 S-1	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	180	NM	NM
Cell #1 S-1	16-Jun-16	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	150	NM	NM
Cell #1 S-1	22-Sep-16	NM	<4.6	<9.7	<48	<0.023	<0.046	<0.046	<0.092	140	2.3	3.5
Cell #1 S-1	15-Dec-16	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.097	NM	NM	NM
Cell #1 S-1	13-Apr-17	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	100	NM	NM
Cell #1 S-1	22-Jun-17	NM	<4.9	<9.8	<49	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	20-Sep-17	NM	<4.6	<9.9	<50	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	06-Dec-17	NM	<4.7	<9.2	<46	NM	NM	NM	NM	140	1.8	2.9

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

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #1 S-1	13-Mar-18	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	630	NM	NM
Cell #1 S-1	24-Jul-18	NM	<4.7	<9.8	<49	<0.023	<0.047	<0.047	<0.093	NM	NM	NM
Cell #1 S-1	17-Sep-18	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	370	1.6	5.8
Cell #1 S-1	19-Dec-18	NM	<4.9	<9.8	68	<0.024	<0.049	<0.049	<0.097	NM	NM	NM
Cell #1 S-1	28-Mar-19	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	210	NM	NM
Cell #1 S-1	02-Apr-20	<17	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	220	<1.5	4.1
Cell #1 S-1	16-Jun-21	NM	<4.6	<10	<50	<0.023	<0.046	<0.046	<0.093	32	2.9	11
VZ Cell #1B	29-Mar-13	NM	<5.0	12	51	<0.050	<0.050	<0.050	<0.10	<7.5	2.8	<1.5
Cell #1 S-2	6-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	98	0.96	0.45
Cell #1 S-2	1-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	230	NM	NM
Cell #1 S-2	9-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM	NM
Cell #1 S-2	27-Mar-15	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM	NM
Cell #1 S-2	24-Jun-15	NM	<4.9	<9.7	<49	<0.049	<0.049	<0.049	<0.098	NM	NM	NM
Cell #1 S-2	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	2.1	1.2	<0.30
Cell #1 S-2	09-Dec-15	NM	<4.7	<10	<51	<0.047	<0.047	<0.047	<0.095	NM	NM	NM
Cell #1 S-2	07-Mar-16	<19	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #1 S-2	16-Jun-16	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	<30	NM	NM
Cell #1 S-2	22-Sep-16	NM	<5.0	<9.8	<49	<0.025	<0.050	<0.050	<0.10	99	1.7	4.5
Cell #1 S-2	15-Dec-16	NM	<4.7	<10	<50	<0.024	<0.047	<0.047	<0.094	NM	NM	NM
Cell #1 S-2	13-Apr-17	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	<30	NM	NM
Cell #1 S-2	22-Jun-17	NM	<4.7	<9.9	<50	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20		20		0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #1 S-2	20-Sep-17	NM	<4.7	<9.8	<49	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	06-Dec-17	NM	<4.7	<9.4	<47	NM	NM	NM	NM	70	<1.5	14
Cell #1 S-2	13-Mar-18	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM	NM
Cell #1 S-2	24-Jul-18	NM	<4.9	<9.8	<49	<0.025	<0.049	<0.049	<0.098	NM	NM	NM
Cell #1 S-2	17-Sep-18	<19	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	36	1.9	6.4
Cell #1 S-2	19-Dec-18	NM	<4.9	<9.5	<47	<0.025	<0.049	<0.049	<0.099	NM	NM	NM
Cell #1 S-2	28-Mar-19	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	66	NM	NM
Cell #1 S-2	02-Apr-20	<18	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	240	NM	NM
Cell #1 S-2	16-Jun-21	NM	<4.9	<9.6	<48	<0.024	<0.049	<0.049	<0.097	66	NM	NM
VZ Cell #1C	29-Mar-13	NM	<5.0	24	80	<0.050	<0.050	<0.050	<0.10	<7.5	3.5	3.3
Cell #1 S-3	6-May-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	37	1.7	0.35
Cell #1 S-3	1-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM	NM
Cell #1 S-3	9-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.097	<30	NM	NM
Cell #1 S-3	27-Mar-15	<20	NM	NM	NM	<0.046	<0.046	<0.046	<0.092	39	NM	NM
Cell #1 S-3	24-Jun-15	NM	<5.0	<9.8	<49	<0.050	<0.050	<0.050	<0.10	NM	NM	NM
Cell #1 S-3	24-Sep-15	NM	<4.8	<9.9	<50	<0.048	<0.048	<0.048	<0.097	<7.5	2.0	4.6
Cell #1 S-3	09-Dec-15	NM	<4.9	<10	<50	<0.049	<0.049	<0.049	<0.099	NM	NM	NM
Cell #1 S-3	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM	NM
Cell #1 S-3	16-Jun-16	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	66	NM	NM
Cell #1 S-3	22-Sep-16	NM	<5.0	<9.6	<48	<0.025	<0.050	<0.050	<0.10	20	1.2	5.6
Cell #1 S-3	15-Dec-16	NM	<4.9	<9.7	<48	<0.024	<0.049	<0.049	<0.097	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20		20		0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #1 S-3	13-Apr-17	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM	NM
Cell #1 S-3	22-Jun-17	NM	<4.7	<9.8	<49	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	20-Sep-17	NM	<4.7	<9.4	<47	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	06-Dec-17	NM	<4.9	<9.4	<47	NM	NM	NM	NM	2.30	1.2	5.6
Cell #1 S-3	13-Mar-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<30	NM	NM
Cell #1 S-3	24-Jul-18	NM	<4.9	<9.8	<49	<0.025	<0.049	<0.049	<0.099	NM	NM	NM
Cell #1 S-3	17-Sep-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<7.5	<1.5	10
Cell #1 S-3	19-Dec-18	NM	<4.8	<9.9	<4.9	<0.024	<0.048	<0.048	<0.096	NM	NM	NM
Cell #1 S-3	28-Mar-19	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM	NM
Cell #1 S-3	02-Apr-20	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	<60	NM	NM
Cell #1 S-3	16-Jun-21	NM	<4.6	<9.1	<45	<0.023	<0.046	<0.046	<0.092	<60	NM	NM
VZ Cell #1D	29-Mar-13	NM	<5.0	19	56	<0.050	<0.050	<0.050	<0.10	34	2.1	<1.5
Cell #1 S-4	6-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	280	0.98	3.0
Cell #1 S-4	1-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM	NM
Cell #1 S-4	9-Dec-14	<20	NM	NM	NM	<0.050	<0.050	<0.050	<0.099	110	NM	NM
Cell #1 S-4	27-Mar-15	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	730	NM	NM
Cell #1 S-4	24-Jun-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.097	NM	NM	NM
Cell #1 S-4	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	120	2.6	5.3
Cell #1 S-4	09-Dec-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.096	NM	NM	NM
Cell #1 S-4	07-Mar-16	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM	NM
Cell #1 S-4	16-Jun-16	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #1 S-4	22-Sep-16	NM	<4.6	<10	<51	<0.023	<0.046	<0.046	<0.091	<1.5	0.55	1.9
Cell #1 S-4	15-Dec-16	NM	<4.9	<9.6	<48	<0.024	<0.049	<0.049	<0.097	NM	NM	NM
Cell #1 S-4	13-Apr-17	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<30	NM	NM
Cell #1 S-4	22-Jun-17	NM	<4.7	<9.8	<49	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	20-Sep-17	NM	<4.8	<10	<50	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	06-Dec-17	NM	<4.8	<9.6	<48	NM	NM	NM	NM	6.10	0.42	20
Cell #1 S-4	13-Mar-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<30	NM	NM
Cell #1 S-4	24-Jul-18	NM	<5.0	<9.8	<49	<0.025	<0.050	<0.050	<0.099	NM	NM	NM
Cell #1 S-4	17-Sep-18	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<7.5	<1.5	24
Cell #1 S-4	19-Dec-18	NM	<4.7	<9.6	<48	<0.024	<0.047	<0.047	<0.094	NM	NM	NM
Cell #1 S-4	28-Mar-19	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM	NM
Cell #1 S-4	02-Apr-20	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM	NM
Cell #1 S-4	16-Jun-21	NM	<4.6	<10	<50	<0.023	<0.046	<0.046	<0.093	<60	NM	NM
VZ Cell #2	18-Sep-12	NM	<5.0	<9.9	NM	<0.050	<0.050	<0.050	<0.10	15	<3.0	<3.0
VZ Cell #2	6-Dec-12	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	NM	NM
VZ Cell #2	29-Mar-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	<1.5	3.3
VZ Cell #2	1-Jul-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	NM	NM
VZ Cell #2	9-Oct-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	1.6	0.85	3.8
VZ Cell #2	31-Mar-14	<20	<2.8	<9.9	<50	<0.028	<0.028	<0.028	<0.056	<30	NM	NM
Cell #2 S-1	08-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	6.2	0.69	5.2

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #2 S-1	01-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	<30	NM	NM
Cell #2 S-1	09-Dec-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM	NM
Cell #2 S-1	27-Mar-15	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.099	<30	NM	NM
Cell #2 S-1	24-Jun-15	NM	<4.9	<10	<50	<0.049	<0.049	<0.049	<0.098	NM	NM	NM
Cell #2 S-1	24-Sep-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.097	87	0.46	1.2
Cell #2 S-1	09-Dec-15	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.099	NM	NM	NM
Cell #2 S-1	07-Mar-16	<19	NM	NM	NM	<0.049	<0.049	<0.049	<0.099	<30	NM	NM
Cell #2 S-1	16-Jun-16	<20	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	52	NM	NM
Cell #2 S-1	22-Sep-16	NM	<4.8	<9.8	<49	<0.024	<0.048	<0.048	<0.097	17	1.0	1.1
Cell #2 S-1	15-Dec-16	NM	<4.9	<9.3	<47	<0.024	<0.049	<0.049	<0.098	NM	NM	NM
Cell #2 S-1	13-Apr-17	43	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM	NM
Cell #2 S-1	22-Jun-17	NM	<4.9	<9.4	<47	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	20-Sep-17	NM	<4.7	<9.9	<49	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	06-Dec-17	NM	<4.8	<9.5	<47	NM	NM	NM	NM	17	0.94	2.6
Cell #2 S-1	13-Mar-18	550	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	<30	NM	NM
Cell #2 S-1	24-Jul-18	NM	<5.0	<9.3	<46	<0.025	<0.050	<0.050	<0.10	NM	NM	NM
Cell #2 S-1	17-Sep-18	<19	NM	NM	NM	<0.024	<0.047	<0.047	<0.094	10	<1.5	2.7
Cell #2 S-1	19-Dec-18	NM	<4.8	<9.8	<49	<0.024	<0.048	<0.048	<0.095	NM	NM	NM
Cell #2 S-1	28-Mar-19	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<60	NM	NM
Cell #2 S-1	02-Apr-20	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	12	<1.5	5.8
Cell #2 S-1	16-Jun-21	NM	<4.8	<9.9	<50	<0.024	<0.048	<0.048	<0.095	29	<1.5	<1.5

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #2 S-2	8-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	9.5	0.9	1.3
Cell #2 S-2	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	37	NM	NM
Cell #2 S-2	9-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #2 S-2	27-Mar-15	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM	NM
Cell #2 S-2	24-Jun-15	NM	<4.8	<9.6	<48	<0.048	<0.048	<0.048	<0.097	NM	NM	NM
Cell #2 S-2	24-Sep-15	NM	<4.9	<9.8	<49	<0.049	<0.049	<0.049	<0.097	37	0.83	<0.30
Cell #2 S-2	09-Dec-15	NM	<5.0	<9.9	<49	<0.050	<0.050	<0.050	<0.10	NM	NM	NM
Cell #2 S-2	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM	NM
Cell #2 S-2	16-Jun-16	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM	NM
Cell #2 S-2	22-Sep-16	NM	<4.6	<9.7	<48	<0.023	<0.046	<0.046	<0.093	8.9	0.48	5.5
Cell #2 S-2	15-Dec-16	NM	<4.8	<9.3	<47	<0.024	<0.048	<0.048	<0.095	NM	NM	NM
Cell #2 S-2	13-Apr-17	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	<30	NM	NM
Cell #2 S-2	22-Jun-17	NM	<4.8	<9.5	<48	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	20-Sep-17	NM	<4.7	<9.2	<46	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	06-Dec-17	NM	<4.7	<9.5	<47	NM	NM	NM	NM	32	0.76	1.7
Cell #2 S-2	13-Mar-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	<30	NM	NM
Cell #2 S-2	24-Jul-18	NM	<4.6	<9.6	<48	<0.023	<0.046	<0.046	<0.092	NM	NM	NM
Cell #2 S-2	17-Sep-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	12	<1.5	8.2
Cell #2 S-2	19-Dec-18	NM	<4.9	<9.6	<48	<0.024	<0.049	<0.049	<0.098	NM	NM	NM
Cell #2 S-2	28-Mar-19	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<59	NM	NM
Cell #2 S-2	02-Apr-20	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<60	NM	NM

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

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #2 S-2	16-Jun-21	NM	<4.6	<9.9	<49	<0.023	<0.046	<0.046	<0.092	<60	NM	NM
Cell #2 S-3	8-May-14	870	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	15	1.6	<1.5
Cell #2 S-3	1-Oct-14	46	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM	NM
Cell #2 S-3	9-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM	NM
Cell #2 S-3	27-Mar-15	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	<30	NM	NM
Cell #2 S-3	24-Jun-15	NM	<4.7	<9.7	<48	<0.047	<0.047	<0.047	<0.095	NM	NM	NM
Cell #2 S-3	24-Sep-15	NM	<4.8	450	920	<0.048	<0.048	<0.048	<0.097	13	0.99	6.1
Cell #2 S-3	09-Dec-15	NM	<4.9	<9.8	<49	<0.049	<0.049	<0.049	<0.099	NM	NM	NM
Cell #2 S-3	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM	NM
Cell #2 S-3	16-Jun-16	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM	NM
Cell #2 S-3	22-Sep-16	NM	<4.7	<9.9	<50	<0.024	<0.047	<0.047	<0.094	13	0.64	5.1
Cell #2 S-3	15-Dec-16	NM	<5.0	<9.9	<50	<0.025	<0.050	<0.050	<0.099	NM	NM	NM
Cell #2 S-3	13-Apr-17	34	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM	NM
Cell #2 S-3	22-Jun-17	NM	<4.8	<10	<50	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	20-Sep-17	NM	<4.8	<10	<50	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	06-Dec-17	NM	<4.8	17	<47	NM	NM	NM	NM	14.0	<0.30	<0.30
Cell #2 S-3	13-Mar-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<30	NM	NM
Cell #2 S-3	24-Jul-18	NM	4.7	<9.4	<47	<0.024	<0.047	<0.047	<0.094	NM	NM	NM
Cell #2 S-3	17-Sep-18	<20	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	10	<1.5	9.1
Cell #2 S-3	19-Dec-18	NM	<4.8	<9.5	<48	<0.024	<0.048	<0.048	<0.096	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #2 S-3	28-Mar-19	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<60	NM	NM
Cell #2 S-3	02-Apr-20	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	<60	NM	NM
Cell #2 S-3	16-Jun-21	NM	<4.7	<9.7	<48	<0.024	<0.047	<0.047	<0.095	<60	NM	NM
Cell #2 S-4	8-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<7.5	<1.5	18
Cell #2 S-4	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #2 S-4	9-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM	NM
Cell #2 S-4	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #2 S-4	24-Jun-15	NM	<5.0	<9.8	<49	<0.050	<0.050	<0.050	<0.099	NM	NM	NM
Cell #2 S-4	24-Sep-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.097	14	<1.5	4.0
Cell #2 S-4	09-Dec-15	NM	<4.9	<9.7	<49	<0.049	<0.049	<0.049	<0.097	NM	NM	NM
Cell #2 S-4	07-Mar-16	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM	NM
Cell #2 S-4	16-Jun-16	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM	NM
Cell #2 S-4	22-Sep-16	NM	<4.8	<9.2	<46	<0.024	<0.048	<0.048	<0.096	8.2	0.48	21
Cell #2 S-4	15-Dec-16	NM	<4.7	<9.4	<47	<0.023	<0.047	<0.047	<0.093	NM	NM	NM
Cell #2 S-4	13-Apr-17	710	NM	NM	NM	<0.024	<0.048	<0.048	<0.095	<30	NM	NM
Cell #2 S-4	22-Jun-17	NM	<4.9	<9.4	<47	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	20-Sep-17	NM	<4.8	<9.3	<47	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	06-Dec-17	NM	<4.6	<10	<51	NM	NM	NM	NM	41	0.72	<0.30
Cell #2 S-4	13-Mar-18	<18	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM	NM
Cell #2 S-4	24-Jul-18	NM	<5.0	<9.4	<47	<0.025	<0.050	<0.050	<0.10	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #2 S-4	17-Sep-18	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	40	0.35	<0.30
Cell #2 S-4	19-Dec-18	NM	<4.7	17	<50	<0.024	<0.047	<0.047	<0.095	NM	NM	NM
Cell #2 S-4	28-Mar-19	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	<61	NM	NM
Cell #2 S-4	02-Apr-20	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM	NM
Cell #2 S-4	16-Jun-21	NM	<4.7	<9.6	<48	<0.024	<0.047	<0.047	<0.094	67	NM	NM
VZ Cell #3	18-Sep-12	NM	<5.0	<10	NM	<0.050	<0.050	<0.050	<0.10	<15	<3.0	7.2
VZ Cell #3	06-Dec-12	NM	<5.0	71	150	<0.050	<0.050	<0.050	<0.10	<7.5	NM	NM
VZ Cell #3	01-Jul-13	NM	<5.0	16	<50	<0.050	<0.050	<0.050	<0.10	8.6	NM	NM
VZ Cell #3	09-Oct-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<1.5	2.1	3.2
VZ Cell #3	31-Mar-14	<20	<2.5	11	<50	<0.025	<0.025	<0.025	<0.049	<30	NM	NM
VZ Cell #3A	29-Mar-13	NM	<5.0	<9.8	<49	<0.050	<0.050	<0.050	<0.10	<7.5	3.8	<1.5
Cell #3 S-1	08-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	15	0.38	0.59
Cell #3 S-1	01-Oct-14	<20	NM	NM	NM	<0.050	<0.050	<0.050	<0.099	<30	NM	NM
Cell #3 S-1	03-Dec-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	<1.5	NM	NM
Cell #3 S-1	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #3 S-1	24-Jun-15	NM	<4.7	<9.7	<49	<0.047	<0.047	<0.047	<0.094	NM	NM	NM
Cell #3 S-1	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	19	0.63	8.1
Cell #3 S-1	09-Dec-15	NM	<4.7	<9.9	<50	<0.047	<0.047	<0.047	<0.094	NM	NM	NM
Cell #3 S-1	07-Mar-16	<19	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #3 S-1	16-Jun-16	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	<30	NM	NM
Cell #3 S-1	22-Sep-16	NM	<4.8	<9.8	<49	<0.024	<0.048	<0.048	<0.095	<1.5	0.83	3.3
Cell #3 S-1	15-Dec-16	NM	<5.0	<9.9	<50	<0.025	<0.050	<0.050	<0.10	NM	NM	NM
Cell #3 S-1	13-Apr-17	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM	NM
Cell #3 S-1	22-Jun-17	NM	<4.9	<9.7	<48	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	20-Sep-17	NM	<4.7	<9.6	<48	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	06-Dec-17	NM	<4.9	<10	<51	NM	NM	NM	NM	3.9	0.51	1.5
Cell #3 S-1	13-Mar-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<30	NM	NM
Cell #3 S-1	24-Jul-18	NM	<4.7	<9.3	<46	<0.024	<0.047	<0.047	<0.094	NM	NM	NM
Cell #3 S-1	17-Sep-18	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.094	<7.5	<1.5	4.6
Cell #3 S-1	19-Dec-18	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.097	NM	NM	NM
Cell #3 S-1	28-Mar-19	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<60	NM	NM
Cell #3 S-1	02-Apr-20	59	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	11	<1.5	2.4
Cell #3 S-1	16-Jun-21	NM	<4.7	<8.9	<44	<0.024	<0.047	<0.047	<0.095	13	<1.5	<1.5
Cell #3 S-1	26-Oct-21	NM	<4.7	50	59	<0.024	<0.047	<0.047	<0.095	NM	NM	NM
VZ Cell #3B	29-Mar-13	NM	<5.0	41	60	<0.050	<0.050	<0.050	<0.10	<7.5	3.9	1.6
Cell #3 S-2	8-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	20	1.3	10
Cell #3 S-2	1-Oct-14	36	NM	NM	NM	<0.049	<0.049	<0.049	<0.097	<30	NM	NM
Cell #3 S-2	3-Dec-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	1.7	NM	NM
Cell #3 S-2	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20		20		0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #3 S-2	24-Jun-15	NM	<5.0	<9.8	<49	<0.050	<0.050	<0.050	<0.10	NM	NM	NM
Cell #3 S-2	24-Sep-15	NM	<4.8	<9.9	<49	<0.048	<0.048	<0.048	<0.096	3.7	2.0	2.8
Cell #3 S-2	09-Dec-15	NM	<4.8	<9.5	<47	<0.048	<0.048	<0.048	<0.096	NM	NM	NM
Cell #3 S-2	07-Mar-16	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM	NM
Cell #3 S-2	16-Jun-16	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM	NM
Cell #3 S-2	22-Sep-16	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.096	9.6	<1.5	<1.5
Cell #3 S-2	15-Dec-16	NM	<4.8	<9.5	<47	<0.024	<0.048	<0.048	<0.096	NM	NM	NM
Cell #3 S-2	13-Apr-17	<18	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM	NM
Cell #3 S-2	22-Jun-17	NM	<4.8	<10	<50	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	20-Sep-17	NM	<4.7	<9.8	<49	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	06-Dec-17	NM	<4.9	<9.7	<48	NM	NM	NM	NM	<7.5	<1.5	<1.5
Cell #3 S-2	13-Mar-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<30	NM	NM
Cell #3 S-2	24-Jul-18	NM	<4.7	<9.2	<46	<0.023	<0.047	<0.047	<0.094	NM	NM	NM
Cell #3 S-2	17-Sep-18	<20	NM	NM	NM	<0.024	<0.048	<0.048	<0.095	9.5	1.6	1.9
Cell #3 S-2	19-Dec-18	NM	<4.7	<9.7	<48	<0.023	<0.047	<0.047	<0.094	NM	NM	NM
Cell #3 S-2	28-Mar-19	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.095	<60	NM	NM
Cell #3 S-2	02-Apr-20	20	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	<60	NM	NM
Cell #3 S-2	16-Jun-21	NM	<4.7	<9.5	<47	<0.024	<0.047	<0.047	<0.095	<60	NM	NM
Cell #3 S-2	26-Oct-21	NM	<5.0	200	550	<0.025	<0.050	<0.050	<0.10	NM	NM	NM
VZ Cell #3C	29-Mar-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	3.4	6.5

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #3 S-3	8-May-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	7.6	1.5	9.3
Cell #3 S-3	1-Oct-14	170	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #3 S-3	3-Dec-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	6.1	NM	NM
Cell #3 S-3	27-Mar-15	63	NM	NM	NM	<0.050	<0.050	<0.050	<0.10	<30	NM	NM
Cell #3 S-3	24-Jun-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.096	NM	NM	NM
Cell #3 S-3	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	7.7	0.56	7.0
Cell #3 S-3	09-Dec-15	NM	<4.7	<9.9	<49	<0.047	<0.047	<0.047	<0.094	NM	NM	NM
Cell #3 S-3	07-Mar-16	5,300	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	<30	NM	NM
Cell #3 S-3	16-Jun-16	<20	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	<30	NM	NM
Cell #3 S-3	22-Sep-16	NM	<4.8	<9.9	<50	<0.024	<0.048	<0.048	<0.097	5.2	1.8	5.2
Cell #3 S-3	15-Dec-16	NM	<4.8	15	<50	<0.024	<0.048	<0.048	<0.096	NM	NM	NM
Cell #3 S-3	13-Apr-17	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<30	NM	NM
Cell #3 S-3	22-Jun-17	NM	<4.7	<10	<50	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	20-Sep-17	NM	<4.9	<9.8	<49	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	06-Dec-17	NM	<4.9	<9.3	<47	NM	NM	NM	NM	7.6	2.0	12
Cell #3 S-3	13-Mar-18	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM	NM
Cell #3 S-3	24-Jul-18	NM	<5.0	<9.7	<48	<0.025	<0.050	<0.050	<0.10	NM	NM	NM
Cell #3 S-3	17-Sep-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	8.0	4.0	2.6
Cell #3 S-3	19-Dec-18	NM	<5.0	<9.7	<49	<0.025	<0.050	<0.050	<0.099	NM	NM	NM
Cell #3 S-3	28-Mar-19	<20	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<60	NM	NM
Cell #3 S-3	02-Apr-20	50	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	<60	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #3 S-3	16-Jun-21	NM	<4.7	<8.6	<43	<0.024	<0.047	<0.047	<0.095	<61	NM	NM
Cell #3 S-3	26-Oct-21	NM	<5.0	190	330	<0.025	<0.050	<0.050	<0.10	NM	NM	NM
VZ Cell #3D	29-Mar-13	NM	<5.0	<10	<50	<0.050	<0.050	<0.050	<0.10	<7.5	3.7	2.6
Cell #3 S-4	8-May-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<7.5	<1.5	<1.5
Cell #3 S-4	1-Oct-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	<30	NM	NM
Cell #3 S-4	3-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	1.6	NM	NM
Cell #3 S-4	27-Mar-15	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM	NM
Cell #3 S-4	24-Jun-15	NM	<4.7	<9.7	<49	<0.047	<0.047	<0.047	<0.094	NM	NM	NM
Cell #3 S-4	24-Sep-15	NM	<4.8	<9.5	<48	<0.048	<0.048	<0.048	<0.097	14	1.6	10
Cell #3 S-4	09-Dec-15	NM	<4.6	<10	<50	<0.046	<0.046	<0.046	<0.092	NM	NM	NM
Cell #3 S-4	07-Mar-16	<19	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #3 S-4	16-Jun-16	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM	NM
Cell #3 S-4	22-Sep-16	NM	<4.6	<9.7	<49	<0.023	<0.046	<0.046	<0.092	<7.5	<1.5	2.2
Cell #3 S-4	15-Dec-16	NM	<4.6	<9.2	<46	<0.023	<0.046	<0.046	<0.093	NM	NM	NM
Cell #3 S-4	13-Apr-17	<19	NM	NM	NM	<0.024	<0.047	<0.047	<0.094	<30	NM	NM
Cell #3 S-4	22-Jun-17	NM	<4.8	<9.3	<46	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	20-Sep-17	NM	<4.9	<10	<50	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	06-Dec-17	NM	<4.7	<9.6	<48	NM	NM	NM	NM	<7.5	<1.5	1.7
Cell #3 S-4	13-Mar-18	<18	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	<30	NM	NM
Cell #3 S-4	24-Jul-18	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.095	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #3 S-4	17-Sep-18	<20	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	8.0	<1.5	**8.8**
Cell #3 S-4	19-Dec-18	NM	<4.9	<10	<50	<0.024	<0.049	<0.049	<0.098	NM	NM	NM
Cell #3 S-4	28-Mar-19	<18	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	<60	NM	NM
Cell #3 S-4	02-Apr-20	<18	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<60	NM	NM
Cell #3 S-4	16-Jun-21	NM	<4.6	<9.9	<50	<0.023	<0.046	<0.046	<0.092	<60	NM	NM
Cell #3 S-4	26-Oct-21	NM	<4.8	<9.2	<45	<0.024	<0.048	<0.048	<0.097	NM	NM	NM
VZ Cell #4	18-Sep-12	NM	<5.0	<10	NM	<0.050	<0.050	<0.050	<0.10	<15	**3.7**	<3.0
VZ Cell #4	06-Dec-12	NM	<5.0	<9.9	<49	<0.050	<0.050	<0.050	<0.10	<7.5	NM	NM
VZ Cell #4	29-Mar-13	NM	<5.0	<11	<53	<0.050	<0.050	<0.050	<0.10	<7.5	**2.1**	<1.5
VZ Cell #4	01-Jul-13	NM	<5.0	<9.9	<50	<0.050	<0.050	<0.050	<0.10	<7.5	NM	NM
VZ Cell #4	09-Oct-13	NM	<5.0	<9.9	<50	<0.050	<0.050	<0.050	<0.10	6.2	**5.7**	<0.30
VZ Cell #4	31-Mar-14	<20	<3.4	<9.8	<49	<0.034	<0.034	<0.034	<0.068	<30	NM	NM
Cell #4 S-1	06-May-14	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	<1.5	**3.9**	**0.38**
Cell #4 S-1	01-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #4 S-1	03-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	5.7	NM	NM
Cell #4 S-1	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #4 S-1	24-Jun-15	NM	<4.8	<9.5	<48	<0.048	<0.048	<0.048	<0.097	NM	NM	NM
Cell #4 S-1	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.097	1.6	**2.5**	**2.0**
Cell #4 S-1	09-Dec-15	NM	<4.7	<9.8	<49	<0.047	<0.047	<0.047	<0.093	NM	NM	NM

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

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #4 S-1	07-Mar-16	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.094	<30	NM	NM
Cell #4 S-1	16-Jun-16	<19	NM	NM	NM	<0.024	<0.047	<0.047	<0.095	<30	NM	NM
Cell #4 S-1	22-Sep-16	NM	<4.6	<9.8	<49	<0.023	<0.046	<0.046	<0.092	<7.5	<1.5	6.7
Cell #4 S-1	15-Dec-16	NM	<4.8	<9.9	<50	<0.024	<0.048	<0.048	<0.096	NM	NM	NM
Cell #4 S-1	13-Apr-17	<20	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	<30	NM	NM
Cell #4 S-1	22-Jun-17	NM	<4.8	<9.5	<47	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	20-Sep-17	NM	<4.9	<9.6	<48	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-Dec-17	NM	<4.7	<9.3	<46	NM	NM	NM	NM	<7.5	<1.5	11
Cell #4 S-1	13-Mar-18	<18	NM	NM	NM	<0.024	<0.047	<0.047	<0.094	32	NM	NM
Cell #4 S-1	24-Jul-18	NM	<4.6	<9.8	<49	<0.023	<0.046	<0.046	<0.092	NM	NM	NM
Cell #4 S-1	17-Sep-18	<19	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<7.5	1.5	10
Cell #4 S-1	19-Dec-18	NM	<4.7	<9.5	<47	<0.024	<0.047	<0.047	<0.094	NM	NM	NM
Cell #4 S-1	28-Mar-19	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	<60	NM	NM
Cell #4 S-1	02-Apr-20	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	<7.5	2.4	18
Cell #4 S-1	16-Jun-21	NM	<4.7	<9.8	<49	<0.023	<0.047	<0.047	<0.094	<7.5	<1.5	11
Cell #4 S-2	6-May-14	<20	NM	NM	NM	<0.046	<0.046	<0.046	<0.093	<1.5	1.8	<0.30
Cell #4 S-2	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	<30	NM	NM
Cell #4 S-2	3-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	13	NM	NM
Cell #4 S-2	27-Mar-15	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<30	NM	NM
Cell #4 S-2	24-Jun-15	NM	<4.9	<10	<50	<0.049	<0.049	<0.049	<0.097	NM	NM	NM

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

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #4 S-2	24-Sep-15	NM	<4.8	<9.5	<48	<0.048	<0.048	<0.048	<0.097	<7.5	<1.5	6.2
Cell #4 S-2	09-Dec-15	NM	<4.7	<10	<50	<0.047	<0.047	<0.047	<0.094	NM	NM	NM
Cell #4 S-2	07-Mar-16	<19	NM	NM	NM	<0.047	<0.047	<0.047	<0.093	<30	NM	NM
Cell #4 S-2	16-Jun-16	<20	NM	NM	NM	<0.023	<0.047	<0.047	<0.094	<30	NM	NM
Cell #4 S-2	22-Sep-16	NM	<4.8	<9.6	<48	<0.024	<0.048	<0.048	<0.095	<7.5	1.9	5.1
Cell #4 S-2	15-Dec-16	NM	<5.0	<9.6	<48	<0.025	<0.050	<0.050	<0.10	NM	NM	NM
Cell #4 S-2	13-Apr-17	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<30	NM	NM
Cell #4 S-2	22-Jun-17	NM	<4.8	<9.1	<46	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	20-Sep-17	NM	<4.7	<9.7	<48	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	06-Dec-17	NM	<4.6	<9.7	<48	NM	NM	NM	NM	<7.5	<1.5	7.8
Cell #4 S-2	13-Mar-18	<18	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<30	NM	NM
Cell #4 S-2	24-Jul-18	NM	<4.9	<9.3	<47	<0.024	<0.049	<0.049	<0.098	NM	NM	NM
Cell #4 S-2	17-Sep-18	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<7.5	3.3	5.9
Cell #4 S-2	19-Dec-18	NM	<4.7	<9.5	<48	<0.023	<0.047	<0.047	<0.093	NM	NM	NM
Cell #4 S-2	28-Mar-19	<19	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	<60	NM	NM
Cell #4 S-2	02-Apr-20	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.10	<60	NM	NM
Cell #4 S-2	16-Jun-21	NM	<4.6	<8.5	<42	<0.023	<0.046	<0.046	<0.092	<60	NM	NM
Cell #4 S-3	6-May-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	<1.5	1.8	0.64
Cell #4 S-3	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #4 S-3	3-Dec-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.095	2	NM	NM

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

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #4 S-3	27-Mar-15	<20	NM	NM	NM	<0.047	<0.047	<0.047	<0.095	<30	NM	NM
Cell #4 S-3	24-Jun-15	NM	<4.7	<10	<50	<0.047	<0.047	<0.047	<0.094	NM	NM	NM
Cell #4 S-3	24-Sep-15	NM	<4.8	<10	<50	<0.048	<0.048	<0.048	<0.096	<7.5	<1.5	5.6
Cell #4 S-3	09-Dec-15	NM	<4.7	<9.8	<49	<0.047	<0.047	<0.047	<0.093	NM	NM	NM
Cell #4 S-3	07-Mar-16	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #4 S-3	16-Jun-16	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.096	<30	NM	NM
Cell #4 S-3	22-Sep-16	NM	<5.0	<9.5	<48	<0.025	<0.050	<0.050	<0.10	<7.5	3.5	4.1
Cell #4 S-3	15-Dec-16	NM	<5.0	<9.5	<48	<0.025	<0.050	<0.050	<0.099	NM	NM	NM
Cell #4 S-3	13-Apr-17	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.097	<30	NM	NM
Cell #4 S-3	22-Jun-17	NM	<5.0	<9.8	<49	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	20-Sep-17	NM	<4.7	<9.3	<47	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	06-Dec-17	NM	<4.6	<9.6	<48	NM	NM	NM	NM	<7.5	<1.5	15
Cell #4 S-3	13-Mar-18	<20	NM	NM	NM	<0.023	<0.047	<0.047	<0.093	<30	NM	NM
Cell #4 S-3	24-Jul-18	NM	<4.8	<9.2	<46	<0.024	<0.048	<0.048	<0.097	NM	NM	NM
Cell #4 S-3	17-Sep-18	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<7.5	1.8	7.4
Cell #4 S-3	19-Dec-18	NM	<4.7	<9.7	<49	<0.024	<0.047	<0.047	<0.094	NM	NM	NM
Cell #4 S-3	28-Mar-19	<19	NM	NM	NM	<0.024	<0.048	<0.048	<0.097	<60	NM	NM
Cell #4 S-3	02-Apr-20	<18	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM	NM
Cell #4 S-3	16-Jun-21	NM	<4.7	<9.0	<45	<0.024	<0.047	<0.047	<0.094	<59	NM	NM
Cell #4 S-4	6-May-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<7.5	<1.5	<1.5

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

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3
Cell #4 S-4	1-Oct-14	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.097	<30	NM	NM
Cell #4 S-4	3-Dec-14	<20	NM	NM	NM	<0.049	<0.049	<0.049	<0.098	4.1	NM	NM
Cell #4 S-4	27-Mar-15	<20	NM	NM	NM	<0.048	<0.048	<0.048	<0.096	<30	NM	NM
Cell #4 S-4	24-Jun-15	NM	<4.8	<9.6	<48	<0.048	<0.048	<0.048	<0.096	NM	NM	NM
Cell #4 S-4	24-Sep-15	NM	<4.8	<9.8	<49	<0.048	<0.048	<0.048	<0.097	2.7	0.84	1.6
Cell #4 S-4	09-Dec-15	NM	<4.9	<10	<50	<0.049	<0.049	<0.049	<0.098	NM	NM	NM
Cell #4 S-4	07-Mar-16	<20	NM	NM	NM	<0.046	<0.046	<0.046	<0.092	<30	NM	NM
Cell #4 S-4	16-Jun-16	<19	NM	NM	NM	<0.023	<0.046	<0.046	<0.093	<30	NM	NM
Cell #4 S-4	22-Sep-16	NM	<4.6	<9.9	<49	<0.023	<0.046	<0.046	<0.092	<7.5	<1.5	<1.5
Cell #4 S-4	15-Dec-16	NM	<4.7	<9.7	<49	<0.023	<0.047	<0.047	<0.094	NM	NM	NM
Cell #4 S-4	13-Apr-17	<19	NM	NM	NM	<0.025	<0.050	<0.050	<0.099	<30	NM	NM
Cell #4 S-4	22-Jun-17	NM	<4.7	<9.4	<47	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	20-Sep-17	NM	<4.6	<9.8	<49	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	06-Dec-17	NM	<4.9	<9.3	<46	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	13-Mar-18	<20	NM	NM	NM	<0.025	<0.049	<0.049	<0.098	<30	NM	NM
Cell #4 S-4	24-Jul-18	NM	<4.8	<9.6	<48	<0.024	<0.048	<0.048	<0.096	NM	NM	NM
Cell #4 S-4	17-Sep-18	<19	NM	NM	NM	<0.024	<0.049	<0.049	<0.098	12	3.7	3.7
Cell #4 S-4	19-Dec-18	NM	<4.7	<9.9	<49	<0.023	<0.047	<0.047	<0.093	NM	NM	NM
Cell #4 S-4	28-Mar-19	<20	NM	NM	NM	<0.023	<0.046	<0.046	<0.092	<60	NM	NM
Cell #4 S-4	02-Apr-20	<18	NM	NM	NM	<0.025	<0.049	<0.049	<0.099	<60	NM	NM
Cell #4 S-4	16-Jun-21	NM	<4.8	<10	<50	<0.024	<0.048	<0.048	<0.096	<60	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	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	Fluoride mg/kg	Nitrate mg/kg
Method		418.1	8015D	8015M/D	8015M/D	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	300.0	300.0	300.0
NMOCD Approved Background		20	20			0.05	0.05	0.05	0.1	25	0.6	0.3

Notes:

<	Analyte not detected above listed method limit
NA	Not Applicable
NM	Not Measured

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

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
VZ Cell #1	18-Sep-12	15	<0.033	<12	150	<0.50	5,800	15	NM	NM	5.2	3,600
VZ Cell #1	6-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1	1-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1	9-Oct-13	9.1	NM	<12	120	<0.50	5,600	17	NM	NM	5.5	3,300
VZ Cell #1	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1A	29-Mar-13	110	NM	<12	86	<0.50	4,700	10	NM	NM	4.4	2,000
Cell #1 S-1	6-May-14	5.5	<0.032	<5.0	73	<0.20	2,200	5.5	4.1	9,100	2.9	1,500
Cell #1 S-1	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Sep-15	4.9	<0.034	<12	56	<0.50	2,000	4.7	NM	NM	3.4	1,300
Cell #1 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Sep-16	22	<0.033	<4.9	110	<0.20	4,000	13	NM	NM	4.8	2,600
Cell #1 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	06-Dec-17	37	<0.033	<12	190	<0.50	5,700	18	NM	NM	4.2	3,800

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #1 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	17-Sep-18	9.6	<0.033	<12	130	<0.20	5,600	14	NM	NM	3.3	3,300
Cell #1 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-1	02-Apr-20	14	<0.033	<5.0	75	<0.20	5,600	10	NM	NM	3.0	NM
Cell #1 S-1	16-Jun-21	19	<0.033	<5.0	140	<0.20	4,300	13	NM	NM	3.7	2,900
VZ Cell #1B	29-Mar-13	11	NM	<12	62	<0.50	5,600	13	NM	NM	4.4	2,000
Cell #1 S-2	6-May-14	17	<0.033	<12	130	<0.48	6,800	11	10	18,000	5.4	3,000
Cell #1 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Sep-15	17	<0.033	<12	140	<0.50	7,700	9.4	NM	NM	5.7	2,800
Cell #1 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	22-Sep-16	33	<0.033	<5.0	120	<0.20	6,000	13	NM	NM	4.5	2,600
Cell #1 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #1 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	06-Dec-17	24	<0.033	<12	160	<0.50	5,300	12	NM	NM	3.9	3,000
Cell #1 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	17-Sep-18	18	<0.032	<4.8	120	<0.19	5,100	13	NM	NM	3.3	2,600
Cell #1 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1C	29-Mar-13	9.5	NM	<25	150	<1.0	17,000	20	NM	NM	8.0	4,100
Cell #1 S-3	6-May-14	15	<0.034	<12	150	<0.50	5,900	14	12	20,000	6.1	3,200
Cell #1 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Sep-15	12	<0.033	<12	85	<0.50	2,300	9.7	NM	NM	3.9	2,200
Cell #1 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Sep-16	14	<0.033	2.8	74	<0.098	2,700	5.9	NM	NM	3.3	1,600
Cell #1 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #1 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	06-Dec-17	16	<0.031	<12	150	<0.49	6,100	9.6	NM	NM	3.8	2,600
Cell #1 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	17-Sep-18	13	<0.033	<12	120	<0.20	4,400	12	NM	NM	3.9	3,000
Cell #1 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #1D	29-Mar-13	<7.5	NM	<12	56	<0.50	2,300	8.6	NM	NM	4.1	1,300
Cell #1 S-4	6-May-14	21	<0.032	<13	110	<0.51	7,900	15	14	19,000	5.1	3,400
Cell #1 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Sep-15	31	<0.032	<12	87	<0.50	6,900	10	NM	NM	4.7	2,100
Cell #1 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #1 S-4	22-Sep-16	3.3	<0.033	3.1	49	<0.10	5,400	4.0	NM	NM	2.6	1,000
Cell #1 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	06-Dec-17	8.5	<0.032	5.8	81	<0.098	2,000	5.4	NM	NM	2.6	1,500
Cell #1 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	17-Sep-18	28	<0.032	<4.9	78	<0.097	2,500	6.9	NM	NM	2.2	1,900
Cell #1 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #2	18-Sep-12	<15	<0.033	<12	90	<0.50	7,000	5.2	NM	NM	2.8	1,200
VZ Cell #2	6-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #2	29-Mar-13	28	0.071	<13	160	<0.50	7,400	10	NM	NM	5.9	2,300
VZ Cell #2	1-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #2	9-Oct-13	110	NM	<12	170	<0.50	7,400	10	NM	NM	5.7	2,300
VZ Cell #2	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	08-May-14	120	<0.034	<5.1	87	<0.20	2,300	5.2	4.3	11,000	3.0	1,200

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #2 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	09-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Sep-15	74	<0.032	<12	120	<0.49	6,100	5.9	NM	NM	4.6	1,600
Cell #2 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Sep-16	16	<0.032	2.6	58	<0.099	1,700	4.4	NM	NM	2.6	1,000
Cell #2 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	06-Dec-17	44	<0.032	<12	98	<0.48	2.9	6.4	NM	NM	3.7	1,600
Cell #2 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	17-Sep-18	70	<0.032	3.2	82	<0.099	1,800	4.4	NM	NM	2.3	1,100
Cell #2 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-1	02-Apr-20	22	<0.033	6.5	110	<0.20	4,000	7.9	NM	NM	3.1	NM
Cell #2 S-1	16-Jun-21	120	<0.035	<4.9	160	<0.20	4,600	8.1	NM	NM	4.4	2,000

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

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #2 S-2	8-May-14	66	<0.032	<4.9	100	<0.20	5,400	5.9	4.9	12,000	3.2	1,500
Cell #2 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Sep-15	160	<0.032	<13	120	<0.50	6,200	5.9	NM	NM	4.0	1,500
Cell #2 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Sep-16	230	<0.032	2.7	76	<0.098	1,600	4.7	NM	NM	2.7	1,100
Cell #2 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	06-Dec-17	120	<0.032	2.7	100	<0.097	1,700	4.7	NM	NM	2.6	1,200
Cell #2 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	17-Sep-18	90	<0.033	<5.0	95	<0.10	1,800	5.0	NM	NM	2.9	1,200
Cell #2 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #1 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	8-May-14	160	<0.034	<5.1	59	<0.20	3,200	5.7	5.7	9,800	3.4	1,200
Cell #2 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Sep-15	130	<0.033	<12	60	<0.49	5,200	5.6	NM	NM	2.9	1,200
Cell #2 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Sep-16	130	<0.032	2.6	86	<0.099	2,500	4.7	NM	NM	2.6	1,200
Cell #2 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	06-Dec-17	34	<0.033	<12	130	<0.50	2,900	9.4	NM	NM	3.1	2,200
Cell #2 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	17-Sep-18	8.7	<0.033	<2.5	71	<0.10	1,300	4.4	NM	NM	1.9	990
Cell #2 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #2 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	8-May-14	9.9	<0.034	<4.9	95	<0.20	2,400	7.6	5.4	15,000	3.5	1,700
Cell #2 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Sep-15	62	<0.033	<12	120	<0.50	2,900	8.2	NM	NM	4.8	2,100
Cell #2 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	22-Sep-16	17	<0.033	2.6	69	<0.099	1,600	6.0	NM	NM	2.7	1,300
Cell #2 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	06-Dec-17	76	<0.031	<2.5	100	<0.098	2,700	4.4	NM	NM	2.7	1,300
Cell #2 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #2 S-4	17-Sep-18	51	<0.031	2.8	86	<0.099	4,200	4.0	NM	NM	2.7	1,000
Cell #2 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	18-Sep-12	<15	<0.033	<12	99	<0.50	4,900	11	NM	NM	3.9	2,100
VZ Cell #3	06-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	01-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3	09-Oct-13	16	NM	<12	110	<0.50	5,300	13	NM	NM	5.5	2,700
VZ Cell #3	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3A	29-Mar-13	30	<0.033	<12	190	<0.50	7,700	20	NM	NM	6.9	3,700
Cell #3 S-1	08-May-14	65	<0.035	<4.9	76	<0.20	1,800	5.4	4.1	11,000	3.4	1,300
Cell #3 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Sep-15	120	<0.033	<12	110	<0.50	6,800	13	NM	NM	5.7	2,900
Cell #3 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #3 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Sep-16	18	<0.033	4.7	73	<0.098	1,100	4.0	NM	NM	2.5	800
Cell #3 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	06-Dec-17	10	<0.033	3.2	90	<0.096	1,100	3.3	NM	NM	2.0	820
Cell #3 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	17-Sep-18	8.5	<0.033	<2.4	55	<0.097	920	3.4	NM	NM	1.8	820
Cell #3 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-1	02-Apr-20	12	<0.033	<5.0	74	<0.20	1,100	3.8	NM	NM	2.4	NM
Cell #3 S-1	16-Jun-21	47	<0.034	4.5	92	<0.098	1,600	4.4	NM	NM	2.9	1,000
Cell #3 S-1	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3B	29-Mar-13	39	<0.033	<25	160	<1.0	8,100	20	NM	NM	8.0	5,000
Cell #3 S-2	8-May-14	32	<0.032	<5.0	65	<0.20	2,100	8.9	7.2	12,000	3.3	1,600
Cell #3 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #3 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Sep-15	83	<0.033	<12	80	<0.49	1,900	8.0	NM	NM	3.9	1,700
Cell #3 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Sep-16	69	<0.032	<2.5	48	<0.099	1,500	7.2	NM	NM	2.9	1,400
Cell #3 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	06-Dec-17	14	<0.031	<12	90	<0.48	2,400	8.7	NM	NM	3.6	1,900
Cell #3 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	17-Sep-18	64	<0.031	<5.0	67	<0.099	2,000	9.8	NM	NM	2.6	1,900
Cell #3 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-2	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3C	29-Mar-13	29	<0.033	<25	140	<1.0	9,400	16	NM	NM	7.9	4,000

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

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #3 S-3	8-May-14	130	<0.033	<12	160	<0.49	5,200	18	13	23,000	6.2	3,100
Cell #3 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Sep-15	200	<0.033	<12	150	<0.49	4,000	15	NM	NM	6.6	3,100
Cell #3 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Sep-16	140	<0.033	<4.9	120	<0.20	4,400	14	NM	NM	5.2	2,400
Cell #3 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	06-Dec-17	29	<0.032	<12	150	<0.49	4,300	16	NM	NM	4.8	3,000
Cell #3 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	17-Sep-18	190	<0.033	<12	100	<0.19	6,200	17	NM	NM	4.6	3,100
Cell #3 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #1 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-3	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #3D	29-Mar-13	43	<0.033	<12	150	<0.50	12,000	17	NM	NM	6.8	4,700
Cell #3 S-4	8-May-14	34	<0.034	<12	130	<0.48	4,000	17	14	22,000	6.0	3,100
Cell #3 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Sep-15	48	<0.033	<12	110	<0.50	4,800	11	NM	NM	5.9	2,400
Cell #3 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Sep-16	130	<0.033	<2.5	71	<0.10	1,800	5.8	NM	NM	2.8	1,200
Cell #3 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	06-Dec-17	190	<0.032	<12	120	<0.50	2,900	9.0	NM	NM	4.6	2,000
Cell #3 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #3 S-4	17-Sep-18	160	<0.032	<2.4	73	<0.097	2,000	7.1	NM	NM	2.7	1,500
Cell #3 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #3 S-4	26-Oct-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #4	18-Sep-12	<15	<0.033	<12	130	<0.50	9,700	23	NM	NM	7.3	2,900
VZ Cell #4	06-Dec-12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #4	29-Mar-13	<7.5	<0.033	<13	130	<0.50	4,000	20	NM	NM	6.1	2,600
VZ Cell #4	01-Jul-13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
VZ Cell #4	09-Oct-13	29	NM	<25	120	<1.0	5,800	23	NM	NM	8.7	3,500
VZ Cell #4	31-Mar-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-May-14	4.6	<0.033	<12	120	<0.49	9,900	18	13	22,000	7.1	2,900
Cell #4 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Sep-15	1.8	<0.032	<12	100	<0.49	4,600	15	NM	NM	6.8	2,400
Cell #4 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #4 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Sep-16	<7.5	<0.033	<2.5	60	<0.10	1,200	7.8	NM	NM	2.9	1,100
Cell #4 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-Dec-17	<7.5	<0.033	<12	100	<0.49	2,200	13	NM	NM	4.8	1,900
Cell #4 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	17-Sep-18	11	<0.032	<5.0	80	<0.20	3,400	11	NM	NM	4.5	1,700
Cell #4 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-1	02-Apr-20	15	<0.033	<12	110	<0.49	5,400	17	NM	NM	5.7	NM
Cell #4 S-1	16-Jun-21	11	<0.033	<4.8	110	<0.19	2,700	12	NM	NM	5.2	2,100
Cell #4 S-2	6-May-14	2.5	<0.033	<5.1	96	<0.20	8,500	15	11	20,000	5.4	2,600
Cell #4 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #4 S-2	24-Sep-15	<7.5	<0.032	<13	100	<0.50	2,300	15	NM	NM	5.9	2,200
Cell #4 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Sep-16	<7.5	<0.033	<5.0	96	<0.20	2,600	15	NM	NM	5.8	2,000
Cell #4 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	06-Dec-17	<7.5	<0.031	<12	110	<0.49	2,400	15	NM	NM	6.4	2,300
Cell #4 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	17-Sep-18	14	<0.031	<4.8	80	<0.19	4,200	13	NM	NM	4.7	1,800
Cell #4 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	6-May-14	12	<0.034	<12	110	<0.50	3,900	17	13	21,000	6.8	2,300
Cell #4 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #4 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Sep-15	15	<0.033	<12	93	<0.50	2,000	15	NM	NM	5.9	2,000
Cell #4 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Sep-16	<7.5	<0.033	<5.0	78	<0.20	2,700	12	NM	NM	5.1	1,600
Cell #4 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	06-Dec-17	<7.5	<0.031	<12	110	<0.49	2,500	17	NM	NM	5.4	2,300
Cell #4 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	17-Sep-18	11	<0.032	<12	95	<0.19	5,500	15	NM	NM	5.1	2,200
Cell #4 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	6-May-14	7.9	<0.034	<5.0	77	<0.20	1,700	10	8.0	16,000	4.0	1,400

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
	Method	300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA
Cell #4 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Sep-15	4.5	<0.033	<12	73	<0.49	1,600	9.9	NM	NM	4.3	1,400
Cell #4 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Sep-16	<7.5	<0.033	<4.9	83	<0.20	2,200	12	NM	NM	5.2	2,000
Cell #4 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	06-Dec-17	NM	<0.031	<12	110	<0.50	9,900	15	NM	NM	7.1	2,500
Cell #4 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	17-Sep-18	24	<0.032	<5.0	170	<0.20	5,300	16	NM	NM	4.5	2,300
Cell #4 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #4 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Sulfate mg/kg	Mercury mg/kg	Arsenic mg/kg	Barium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg
Method		300.0	7471	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B
NMOCD Approved Background		1.5	0.03	2.5	42	0.1	NA	4.4	3.4	6500	2.1	NA

Notes:
< Analyte not detected above listed method limit
NA Not Applicable
NM Not Measured

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
VZ Cell #1	18-Sep-12	NM	2,900	<12	<1.2	<120	NM
VZ Cell #1	6-Dec-12	NM	NM	NM	NM	NM	NM
VZ Cell #1	1-Jul-13	NM	NM	NM	NM	NM	NM
VZ Cell #1	9-Oct-13	NM	2,400	<12	<1.2	<120	NM
VZ Cell #1	31-Mar-14	NM	NM	NM	NM	NM	NM
VZ Cell #1A	29-Mar-13	NM	1,600	<12	<1.2	<120	NM
Cell #1 S-1	6-May-14	260	970	<5.0	<0.50	<50	22
Cell #1 S-1	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #1 S-1	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #1 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Sep-15	NM	830	<12	<1.2	<120	NM
Cell #1 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #1 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #1 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Sep-16	NM	2,100	<4.9	<0.49	88	NM
Cell #1 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #1 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #1 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #1 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #1 S-1	06-Dec-17	NM	3,500	<12	<1.2	190	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #1 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #1 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #1 S-1	17-Sep-18	NM	2,600	<12	<1.2	460	NM
Cell #1 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #1 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-1	02-Apr-20	NM	1,600	<5.0	<0.50	270	NM
Cell #1 S-1	16-Jun-21	NM	2,100	<5.0	<0.50	190	NM
VZ Cell #1B	29-Mar-13	NM	1,800	<12	<1.2	<120	NM
Cell #1 S-2	6-May-14	430	2,200	<12	<1.2	<120	48
Cell #1 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #1 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #1 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Sep-15	NM	1,700	<12	<1.2	<120	NM
Cell #1 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #1 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #1 S-2	22-Sep-16	NM	1,800	<5.0	<0.50	56	NM
Cell #1 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #1 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #1 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #1 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #1 S-2	06-Dec-17	NM	2,400	<12	<12	250	NM
Cell #1 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #1 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #1 S-2	17-Sep-18	NM	2,100	<4.8	<0.48	160	NM
Cell #1 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #1 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #1 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM
VZ Cell #1C	29-Mar-13	NM	3,700	<25	<2.5	<250	NM
Cell #1 S-3	6-May-14	420	2,300	<12	<1.2	<120	51
Cell #1 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #1 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #1 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Sep-15	NM	1,500	<12	<1.2	140	NM
Cell #1 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #1 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Sep-16	NM	1,100	<2.4	<0.24	<49	NM
Cell #1 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #1 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #1 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #1 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #1 S-3	06-Dec-17	NM	1,600	<12	<1.2	<120	NM
Cell #1 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #1 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #1 S-3	17-Sep-18	NM	2,400	<12	<0.50	130	NM
Cell #1 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #1 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #1 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM
VZ Cell #1D	29-Mar-13	NM	1,300	<12	<1.2	<120	NM
Cell #1 S-4	6-May-14	350	2,400	<13	<1.3	220	46
Cell #1 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #1 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #1 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Sep-15	NM	1,400	<12	<1.2	410	NM
Cell #1 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #1 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #1 S-4	22-Sep-16	NM	630	<2.5	<0.25	<25	NM
Cell #1 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #1 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #1 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #1 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #1 S-4	06-Dec-17	NM	1,100	<2.5	<0.25	32	NM
Cell #1 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #1 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #1 S-4	17-Sep-18	NM	1,400	<4.9	<0.24	87	NM
Cell #1 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #1 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM
VZ Cell #2	18-Sep-12	NM	550	<12	<1.2	<120	NM
VZ Cell #2	6-Dec-12	NM	NM	NM	NM	NM	NM
VZ Cell #2	29-Mar-13	NM	1000	<13	<1.2	<120	NM
VZ Cell #2	1-Jul-13	NM	NM	NM	NM	NM	NM
VZ Cell #2	9-Oct-13	NM	1,100	<12	<1.2	<120	NM
VZ Cell #2	31-Mar-14	NM	NM	NM	NM	NM	NM
Cell #2 S-1	08-May-14	250	970	<5.1	<0.51	<51	22

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #2 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM
Cell #2 S-1	09-Dec-14	NM	NM	NM	NM	NM	NM
Cell #2 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Sep-15	NM	770	<12	<1.2	140	NM
Cell #2 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #2 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #2 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Sep-16	NM	570	<2.5	<0.25	<25	NM
Cell #2 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #2 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #2 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #2 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #2 S-1	06-Dec-17	NM	1,000	<12	<1.2	<120	NM
Cell #2 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #2 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #2 S-1	17-Sep-18	NM	710	<2.5	<0.25	89	NM
Cell #2 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #2 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #2 S-1	02-Apr-20	NM	1,500	<5.0	<0.50	160	NM
Cell #2 S-1	16-Jun-21	NM	1,400	<4.9	<0.49	93	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #2 S-2	8-May-14	250	780	<4.9	<0.49	<49	23
Cell #2 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #2 S-2	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #2 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Sep-15	NM	910	<13	<1.3	150	NM
Cell #2 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #2 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #2 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Sep-16	NM	580	<2.4	<0.24	110	NM
Cell #2 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #2 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #2 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #2 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #2 S-2	06-Dec-17	NM	620	<2.4	<0.24	68	NM
Cell #2 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #2 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #2 S-2	17-Sep-18	NM	750	<2.5	<0.25	90	NM
Cell #2 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #2 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #1 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #2 S-3	8-May-14	140	840	<5.0	<0.50	110	21
Cell #2 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #2 S-3	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #2 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Sep-15	NM	820	<12	<1.2	<120	NM
Cell #2 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #2 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Sep-16	NM	640	<2.5	<0.25	65	NM
Cell #2 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #2 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #2 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #2 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #2 S-3	06-Dec-17	NM	1,900	<12	<1.2	<120	NM
Cell #2 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #2 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #2 S-3	17-Sep-18	NM	860	<2.5	<0.25	63	NM
Cell #2 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #2 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #2 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #2 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #2 S-4	8-May-14	290	1,100	<4.9	<0.49	<49	28
Cell #2 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #2 S-4	9-Dec-14	NM	NM	NM	NM	NM	NM
Cell #2 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Sep-15	NM	1,600	<12	<1.2	<120	NM
Cell #2 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #2 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #2 S-4	22-Sep-16	NM	1,200	<2.5	<0.25	<25	NM
Cell #2 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #2 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #2 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #2 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #2 S-4	06-Dec-17	NM	700	<2.5	<0.25	<120	NM
Cell #2 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #2 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #2 S-4	17-Sep-18	NM	620	<2.5	<0.25	120	NM
Cell #2 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #2 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #2 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #2 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM
VZ Cell #3	18-Sep-12	NM	1,700	<12	<1.2	<120	NM
VZ Cell #3	06-Dec-12	NM	NM	NM	NM	NM	NM
VZ Cell #3	01-Jul-13	NM	NM	NM	NM	NM	NM
VZ Cell #3	09-Oct-13	NM	2,000	<12	<1.2	<120	NM
VZ Cell #3	31-Mar-14	NM	NM	NM	NM	NM	NM
VZ Cell #3A	29-Mar-13	NM	2,500	<12	<1.2	<120	NM
Cell #3 S-1	08-May-14	260	800	<4.9	<0.49	50	22
Cell #3 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM
Cell #3 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM
Cell #3 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Sep-15	NM	2,200	<12	<1.2	<120	NM
Cell #3 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #3 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #3 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Sep-16	NM	560	<2.5	<0.25	47	NM
Cell #3 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #3 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #3 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #3 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #3 S-1	06-Dec-17	NM	570	<2.4	<.24	41	NM
Cell #3 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #3 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #3 S-1	17-Sep-18	NM	730	<2.4	<0.24	82	NM
Cell #3 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #3 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #3 S-1	02-Apr-20	NM	730	<5.0	<0.50	110	NM
Cell #3 S-1	16-Jun-21	NM	680	<2.4	<0.24	68	NM
Cell #3 S-1	26-Oct-21	NM	NM	NM	NM	NM	NM
VZ Cell #3B	29-Mar-13	NM	3,200	<25	<2.5	<250	NM
Cell #3 S-2	8-May-14	200	1,400	<5.0	<0.50	<50	26
Cell #3 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #3 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #3 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #3 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Sep-15	NM	1,300	<12	<1.2	<120	NM
Cell #3 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #3 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Sep-16	NM	1,000	<2.5	<0.25	<25	NM
Cell #3 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #3 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #3 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #3 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #3 S-2	06-Dec-17	NM	1,700	<12	<1.2	<120	NM
Cell #3 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #3 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #3 S-2	17-Sep-18	NM	1,700	<5.0	<0.25	100	NM
Cell #3 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #3 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #3 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #3 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #3 S-2	26-Oct-21	NM	NM	NM	NM	NM	NM
VZ Cell #3C	29-Mar-13	NM	2,300	<25	<2.5	<250	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #3 S-3	8-May-14	310	2,500	<12	<1.2	<120	53
Cell #3 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #3 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #3 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Sep-15	NM	2,500	<12	<1.2	<120	NM
Cell #3 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #3 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #3 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Sep-16	NM	1,900	<4.9	<0.49	53	NM
Cell #3 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #3 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #3 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #3 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #3 S-3	06-Dec-17	NM	2,300	<12	<1.2	130	NM
Cell #3 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #3 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #3 S-3	17-Sep-18	NM	2,500	<4.9	<0.49	160	NM
Cell #3 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #3 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #1 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #1 S-3	26-Oct-21	NM	NM	NM	NM	NM	NM
VZ Cell #3D	29-Mar-13	NM	2,700	<12	<1.2	130	NM
Cell #3 S-4	8-May-14	330	2,800	<12	<1.2	<120	53
Cell #3 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #3 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #3 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Sep-15	NM	1,600	<12	<1.2	<120	NM
Cell #3 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #3 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Sep-16	NM	770	<2.5	<0.25	75	NM
Cell #3 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #3 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #3 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #3 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #3 S-4	06-Dec-17	NM	1,500	<12	<1.2	<120	NM
Cell #3 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #3 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #3 S-4	17-Sep-18	NM	1,200	<2.4	<0.24	110	NM
Cell #3 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #3 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #3 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #3 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #3 S-4	26-Oct-21	NM	NM	NM	NM	NM	NM
VZ Cell #4	18-Sep-12	NM	2,400	<12	<1.2	<120	NM
VZ Cell #4	06-Dec-12	NM	NM	NM	NM	NM	NM
VZ Cell #4	29-Mar-13	NM	2,600	<13	<1.2	<120	NM
VZ Cell #4	01-Jul-13	NM	NM	NM	NM	NM	NM
VZ Cell #4	09-Oct-13	NM	3,200	<25	<2.5	<250	NM
VZ Cell #4	31-Mar-14	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-May-14	260	2,100	<12	<1.2	<120	48
Cell #4 S-1	01-Oct-14	NM	NM	NM	NM	NM	NM
Cell #4 S-1	03-Dec-14	NM	NM	NM	NM	NM	NM
Cell #4 S-1	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Sep-15	NM	1,900	<12	<1.2	<120	NM
Cell #4 S-1	09-Dec-15	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #4 S-1	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #4 S-1	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Sep-16	NM	1,000	<2.5	<0.25	<25	NM
Cell #4 S-1	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #4 S-1	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #4 S-1	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #4 S-1	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #4 S-1	06-Dec-17	NM	1,800	<12	<1.2	<120	NM
Cell #4 S-1	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #4 S-1	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #4 S-1	17-Sep-18	NM	1,600	<5.0	<0.50	75	NM
Cell #4 S-1	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #4 S-1	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #4 S-1	02-Apr-20	NM	2,600	<12	<1.2	190	NM
Cell #4 S-1	16-Jun-21	NM	1,700	<4.8	<0.48	91	NM
Cell #4 S-2	6-May-14	220	1,900	<5.1	<0.51	<130	37
Cell #4 S-2	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #4 S-2	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #4 S-2	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jun-15	NM	NM	NM	NM	NM	NM

TABLE 4

VADOSE ZONE SOIL ANALYTICAL RESULTS

BMG Landfarm, Rio Arriba County, New Mexico

Vadose Zone Sample ID	*Date*	*Manganese mg/kg*	*Potassium mg/kg*	*Selenium mg/kg*	*Silver mg/kg*	*Sodium mg/kg*	*Zinc mg/kg*
	Method	*6010B*	*6010B*	*6010B*	*6010B*	*6010B*	*6010B*
	NMOCD Approved Background	*140*	*NA*	*2.5*	*0.25*	*NA*	*13*
Cell #4 S-2	24-Sep-15	NM	2,000	<13	<1.3	<130	NM
Cell #4 S-2	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #4 S-2	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Sep-16	NM	1,600	<5.0	<0.50	<50	NM
Cell #4 S-2	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #4 S-2	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #4 S-2	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #4 S-2	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #4 S-2	06-Dec-17	NM	2,200	<12	<1.2	<120	NM
Cell #4 S-2	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #4 S-2	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #4 S-2	17-Sep-18	NM	1,600	<4.8	<0.48	85	NM
Cell #4 S-2	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #4 S-2	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #4 S-2	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #4 S-2	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #4 S-3	6-May-14	**260**	2,000	<12	<1.2	<120	**45**
Cell #4 S-3	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #4 S-3	3-Dec-14	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	*Date*	*Manganese mg/kg*	*Potassium mg/kg*	*Selenium mg/kg*	*Silver mg/kg*	*Sodium mg/kg*	*Zinc mg/kg*
	Method	*6010B*	*6010B*	*6010B*	*6010B*	*6010B*	*6010B*
	NMOCD Approved Background	*140*	*NA*	*2.5*	*0.25*	*NA*	*13*
Cell #4 S-3	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Sep-15	NM	1,700	<12	<1.2	<120	NM
Cell #4 S-3	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #4 S-3	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Sep-16	NM	1,400	<5.0	<0.50	<50	NM
Cell #4 S-3	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #4 S-3	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #4 S-3	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #4 S-3	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #4 S-3	06-Dec-17	NM	2,200	<12	<1.2	<120	NM
Cell #4 S-3	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #4 S-3	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #4 S-3	17-Sep-18	NM	1,800	<4.8	<0.48	130	NM
Cell #4 S-3	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #4 S-3	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #4 S-3	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #4 S-3	16-Jun-21	NM	NM	NM	NM	NM	NM
Cell #4 S-4	6-May-14	**190**	1,400	<5.0	<0.50	<50	**27**

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
	Method	6010B	6010B	6010B	6010B	6010B	6010B
	NMOCD Approved Background	140	NA	2.5	0.25	NA	13
Cell #4 S-4	1-Oct-14	NM	NM	NM	NM	NM	NM
Cell #4 S-4	3-Dec-14	NM	NM	NM	NM	NM	NM
Cell #4 S-4	27-Mar-15	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jun-15	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Sep-15	NM	1,500	<12	<1.2	<120	NM
Cell #4 S-4	09-Dec-15	NM	NM	NM	NM	NM	NM
Cell #4 S-4	07-Mar-16	NM	NM	NM	NM	NM	NM
Cell #4 S-4	16-Jun-16	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Sep-16	NM	1,400	<4.9	<0.49	<49	NM
Cell #4 S-4	15-Dec-16	NM	NM	NM	NM	NM	NM
Cell #4 S-4	13-Apr-17	NM	NM	NM	NM	NM	NM
Cell #4 S-4	22-Jun-17	NM	NM	NM	NM	NM	NM
Cell #4 S-4	20-Sep-17	NM	NM	NM	NM	NM	NM
Cell #4 S-4	06-Dec-17	NM	1,900	<12	<1.2	<120	NM
Cell #4 S-4	13-Mar-18	NM	NM	NM	NM	NM	NM
Cell #4 S-4	24-Jul-18	NM	NM	NM	NM	NM	NM
Cell #4 S-4	17-Sep-18	NM	2,200	<5.0	<0.50	120	NM
Cell #4 S-4	19-Dec-18	NM	NM	NM	NM	NM	NM
Cell #4 S-4	28-Mar-19	NM	NM	NM	NM	NM	NM
Cell #1 S-4	02-Apr-20	NM	NM	NM	NM	NM	NM
Cell #1 S-4	16-Jun-21	NM	NM	NM	NM	NM	NM

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

Vadose Zone Sample ID	Date	Manganese mg/kg	Potassium mg/kg	Selenium mg/kg	Silver mg/kg	Sodium mg/kg	Zinc mg/kg
Method		6010B	6010B	6010B	6010B	6010B	6010B
NMOCD Approved Background		140	NA	2.5	0.25	NA	13

Notes:
< Analyte not detected above listed method limit
NA Not Applicable
NM Not Measured

TABLE 4B

VADOSE ZONE CONCENTRATIONS, NMOCD APPROVED BACKGROUND LEVELS, NMED SSLs

BMG Landfarm, Rio Arriba County, New Mexico

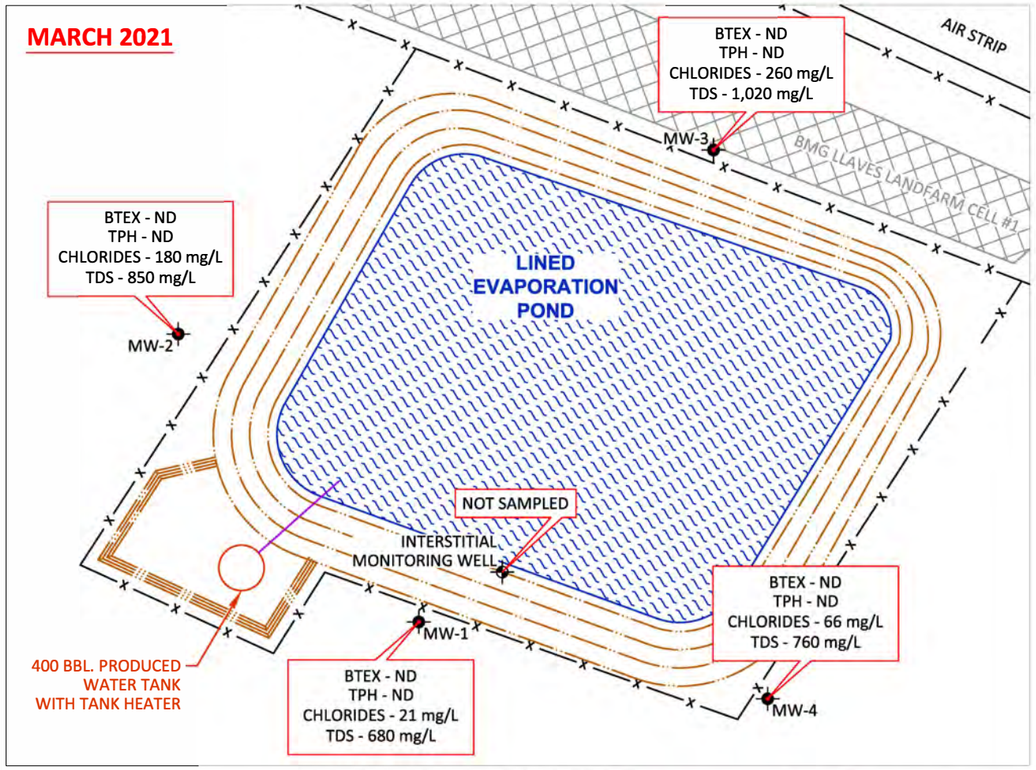
Parameter	*USEPA Method*	VZ Cell #1 (mg/kg)	VZ Cell #2 (mg/kg)	VZ Cell #3 (mg/kg)	VZ Cell #4 (mg/kg)	*NMOCD Approved Vadose Zone Background Levels (mg/kg)*	*Vadose Zone Background Concentration Ranges*	*NMED SSL Leaching to GW DAF 20 (mg/kg)*
Date Sampled		4/2/2020	4/2/2020	4/2/2020	4/2/2020	2016	2014	2019
TPH	418.1	<17	<19	59	19	20	<PQL	4.61E+03*
Chloride	300.0	220	12	11	<7.5	25	1.5-6.5	NE
NMAC 20.6.2.3103 (A and B)								
Arsenic	6010B	--	6.5	--	--	2.5	2.5	5.83E+00
Barium	6010B	75	110	74	110	42	42 - 130	2.70E+03
Chromium	6010B	10	7.9	--	17	4.4	4.4 - 19	2.05E+05
Fluoride	300.0	--	--	--	2.4	0.6	0.6 - 3.0	1.20E+04
Lead	6010B	3.0	3.1	2.4	5.7	2.1	2.1 - 8.4	6.96E+03
Nitrate (NO3 as N)	300.0	4.1	5.8	2.4	18	0.3 (PQL)	0.45	4.25E+02
Sulfate	300.0	14	22	12	15	1.5	1.5 - 16	NE

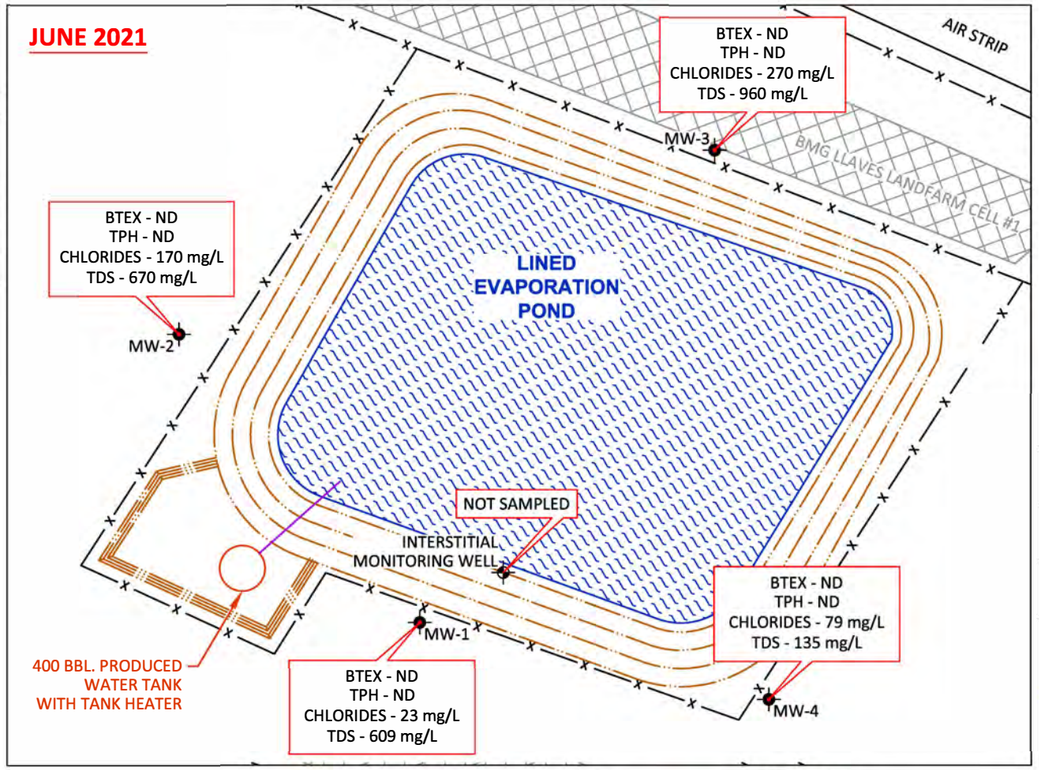
Notes:

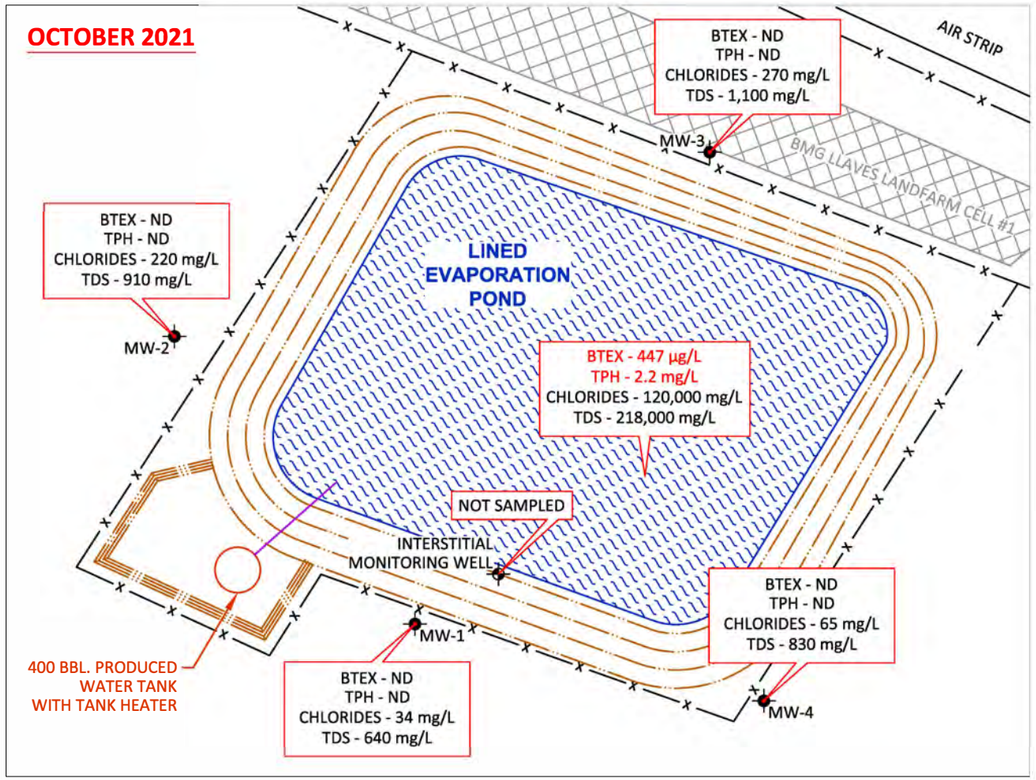
*Unknown Oil - Table 6-4. Groundwater and SL-SSLs for TPH Mixtures, Risk Assessment Guidance for Investigations and Remediation (NMED 2019)

Samples analyzed at Hall Environmental Analysis Laboratory, Albuquerque, NM

Approved by NMOCD 2016







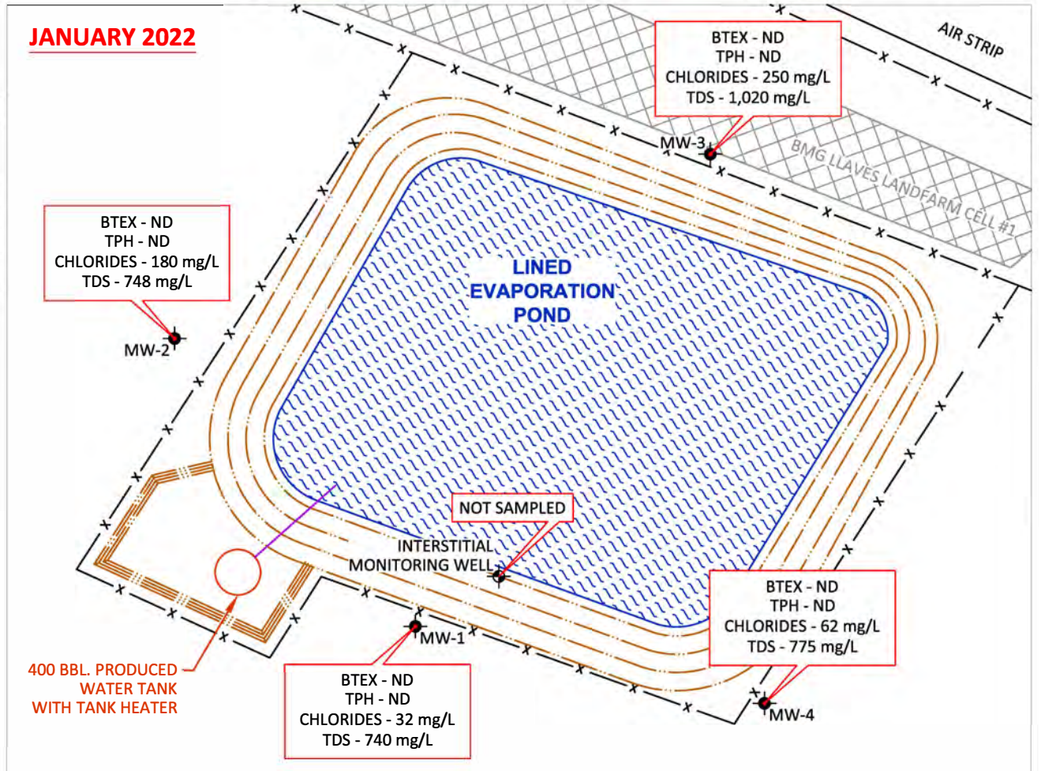


FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS 2021 CONCENTRATIONS

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

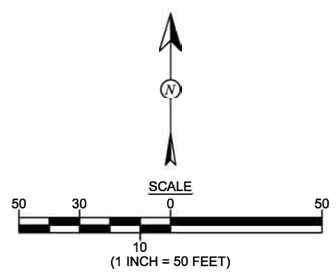
animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	February 8, 2022
CHECKED BY:	**DATE CHECKED:**
D. Reese	February 8, 2022
APPROVED BY:	**DATE APPROVED:**
E. McNally	February 8, 2022

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 18, JUNE 15 AND OCTOBER 26, 2021. SAMPLES WERE COLLECTED JANUARY 6, 2022. ALL SAMPLES ANALYZED PER EPA METHOD 8015B, 8021B, SM 2540C, AND 300.0.



TREATMENT ZONE MONITORING LOCATIONS, JUNE 2021							
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
TZ-Cell #1	CELL #1	16-Jun-21	0.5	*NO SAMPLES COLLECTED*			
TZ-Cell #2	CELL #2	16-Jun-21	0.5	**<24**	**350**	850	<60
TZ-Cell #3	CELL #3	16-Jun-21	0.5	**<4.9**	**41**	140	<60
TZ-Cell #4	CELL #4	16-Jun-21	0.5	*NO SAMPLES COLLECTED*			
ALL SAMPLES WERE COMPOSITE SAMPLES.							

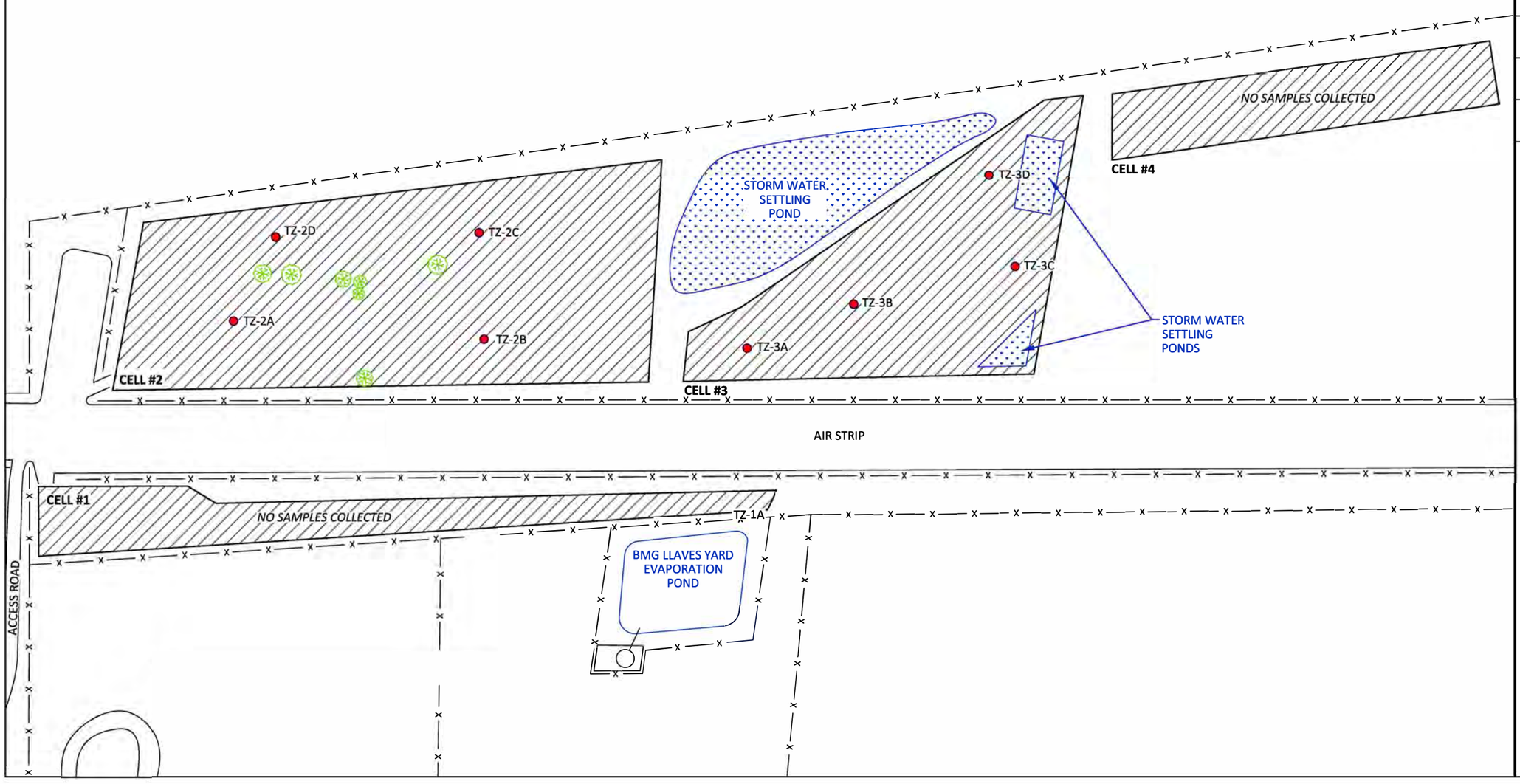


FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND RESULTS 2021

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

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	February 14, 2022
CHECKED BY:	**DATE CHECKED:**
D. Reese	February 14, 2022
APPROVED BY:	**DATE APPROVED:**
E. McNally	February 14, 2022

LEGEND

● JUNE 2021 SAMPLE LOCATIONS (FOR COMPOSITE SAMPLING)

N

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

SEE TABLE 5 FOR LABORATORY ANALYTICAL RESULTS

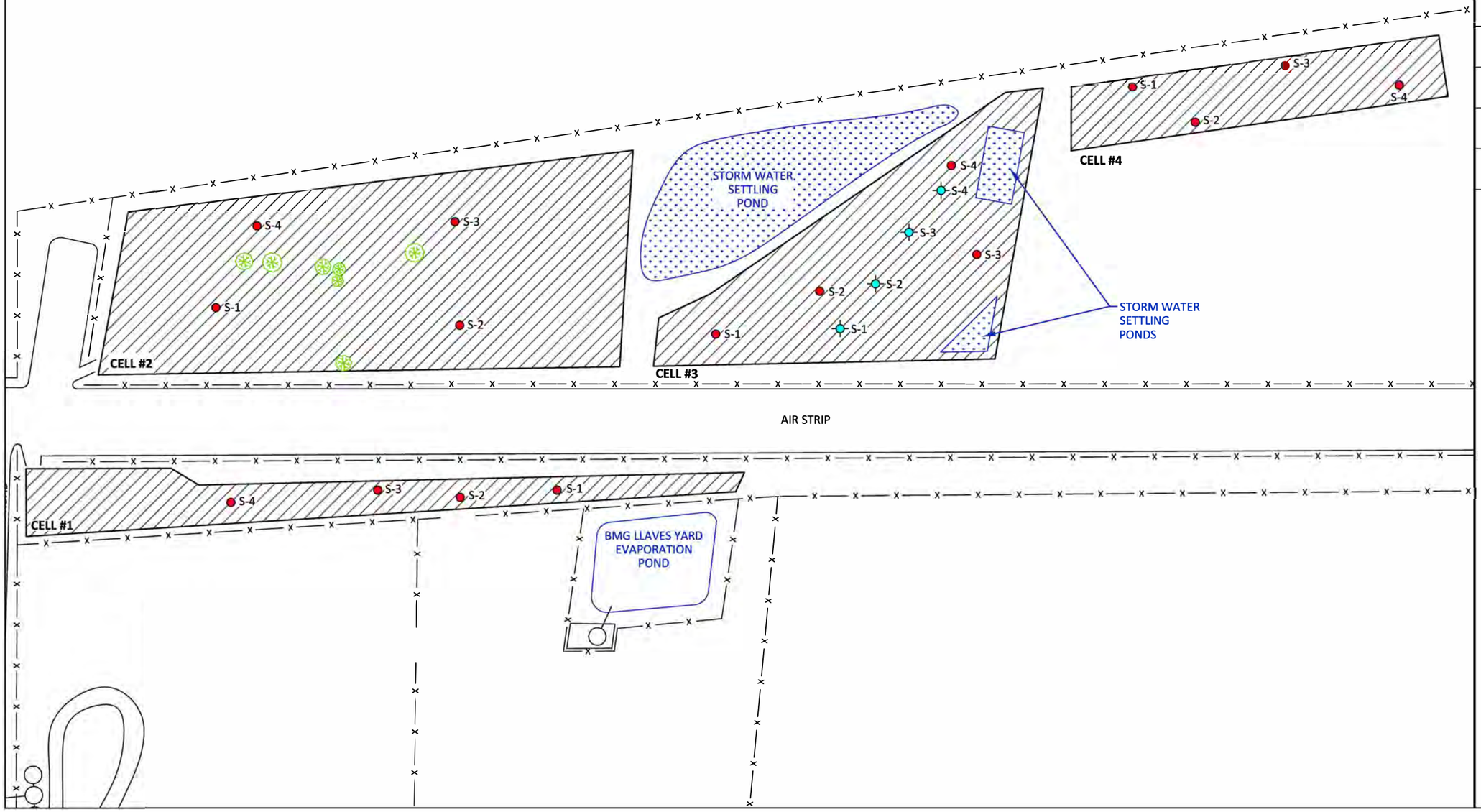


FIGURE 3

BENSON-MONTIN-GREER VADOSE ZONE MONITORING LOCATIONS, 2021

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

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

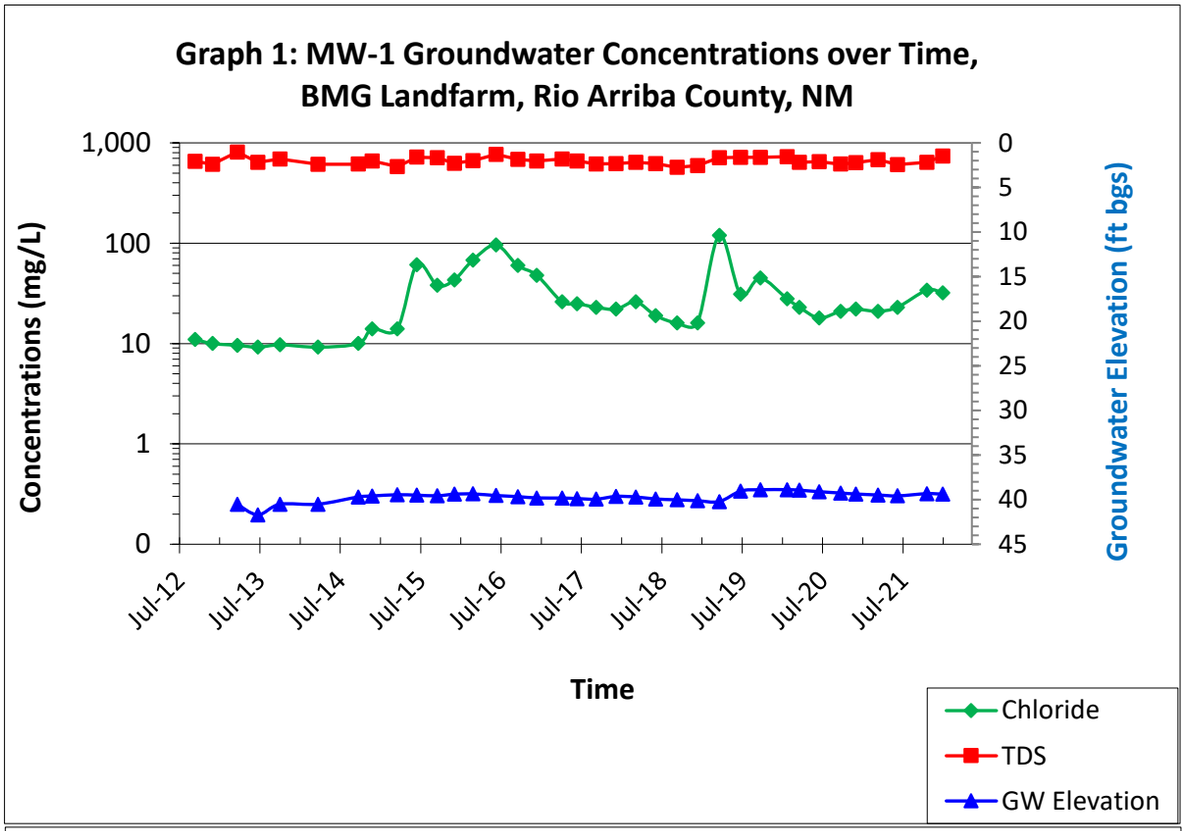
DRAWN BY: C. Lameman	**DATE DRAWN:** January 11, 2013
REVISIONS BY: C. Lameman	**DATE REVISED:** February 14, 2022
CHECKED BY: D. Reese	**DATE CHECKED:** February 14, 2022
APPROVED BY: E. McNally	**DATE APPROVED:** February 14, 2022

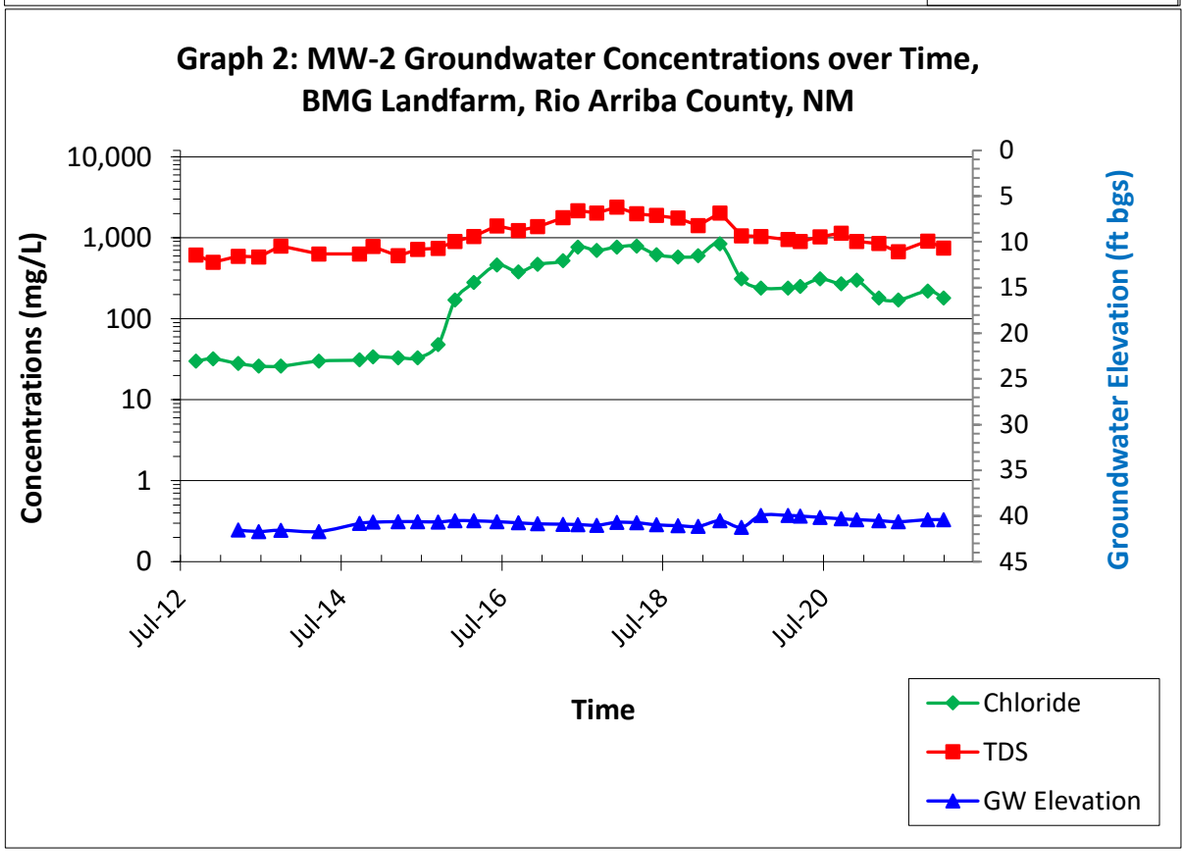
LEGEND

- JUNE 2021 SAMPLE LOCATIONS
- OCTOBER 2021 SAMPLE LOCATIONS

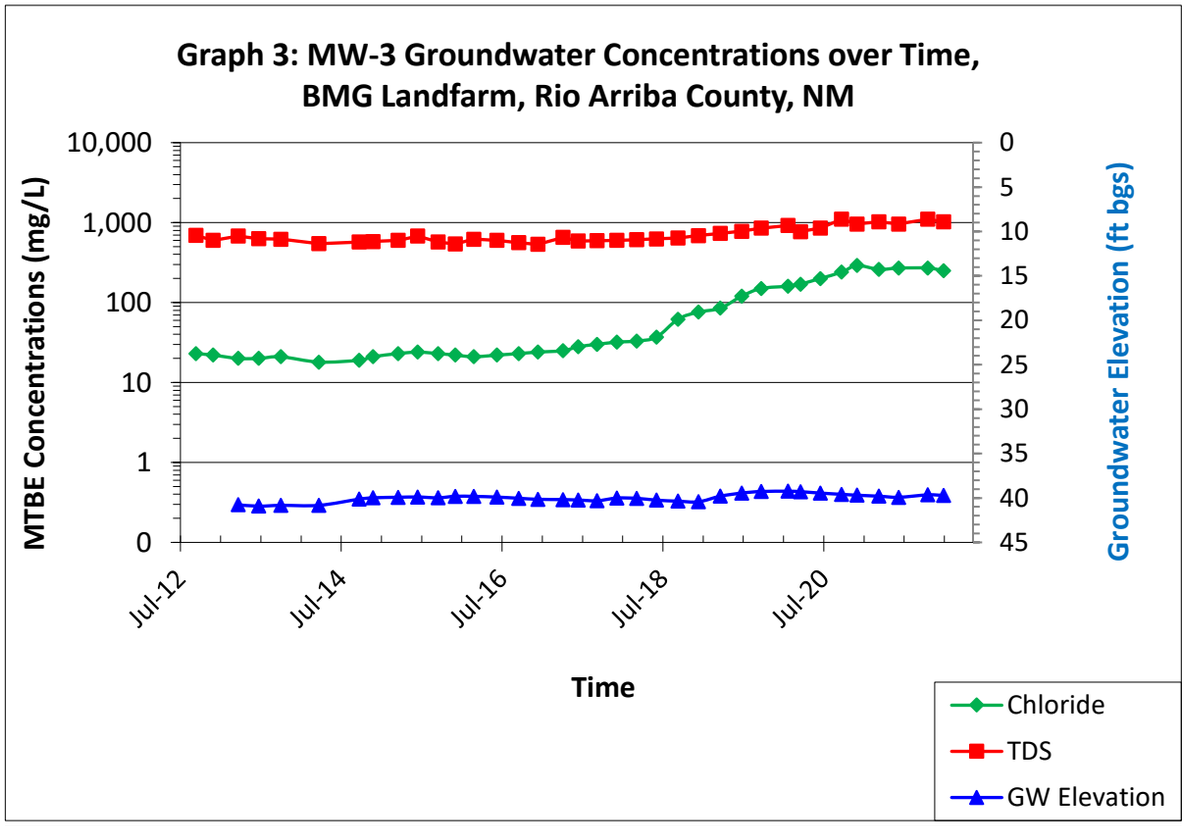
SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

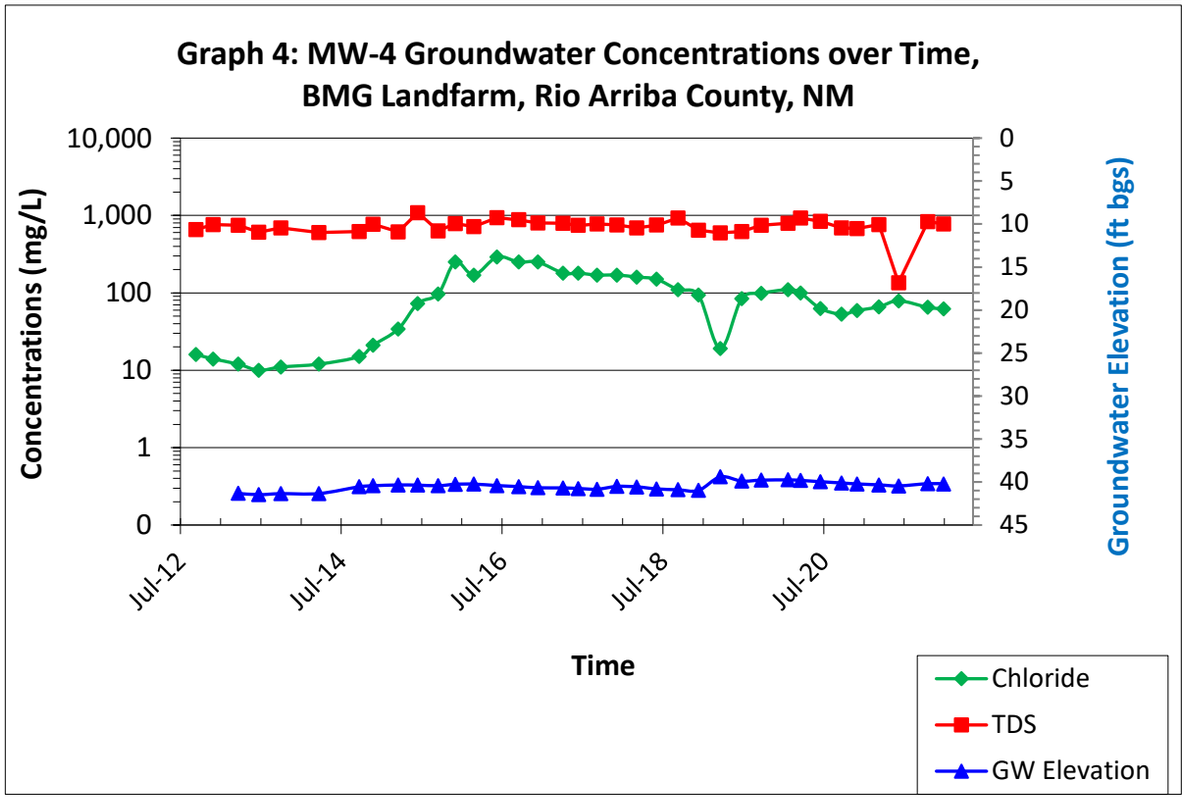
GRAPHS
BMG Landfarm
Rio Arriba, County





GRAPHS
BMG Landfarm
Rio Arriba, County





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
Tech: E. Hubbard

Project No.:
Date: 3/19/21
Time: 1110
Form:

Well ID	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	–	39.48	–	
MW-2	–	40.51	–	
MW-3	–	39.80	–	
MW-4	–	40.33	–	
Interstitial Well	–	10.02	–	TD 12.11 purged ≈ 3.5 gallons until dry

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: E. Hubbert
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.48 **Time:** 1150 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.48 **Time:** 1152 *(taken prior to purging well)*
Final D.T.W. (ft): 45.28 **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES
Date: 3/18/21
Arrival Time: 1130
Air Temp: 46°F
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
1200	11.6	758	5.47	7.52	91.7	Int	clear; no odor
1208	11.9	747	4.52	7.46	92.9	1 gal	cloudy; no odor
1220	11.8	747	4.32	7.44	99.8	2 gal	bailed down
1223	11.7	748	4.29	7.44	98.9	2.5 gal	No odor
		Low yeild					cloudy
1225	collected samples						

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: ground surface
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:

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: B. Hubbard
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.51 **Time:** 1340 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.57 **Time:** 1342 *(taken prior to purging well)*
Final D.T.W. (ft): 45.51 **Time:** 1355 *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES
Date: 3/18/21
Arrival Time: 1340
Air Temp: 50°F
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
1340	12.2	984	5.62	7.02	124.5	1	
1350	12.3	985	5.43	7.09	127.5	2	
		Low yield					
	Samples collected @ 1355						

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: 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:

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: C Hubbard
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.80 **Time:** 1305 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.80 **Time:** 1306 *(taken prior to purging well)*
Final D.T.W. (ft): 45.39 **Time:** 1320 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES
Date: 3/18/21
Arrival Time: 1300
Air Temp: 48°F
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
1300	13.0	1330	4.39	7.71	139.3	1	Clear
1310	13.2	1304	4.22	7.23	130.1	2	Cloudy
							Bailed down
		Low Yield					
	Sampled @ 1320						

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: 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:

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: B. Hubbard
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES
Date: 3/18/21
Arrival Time: 1235
Air Temp: 46°F
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.64

Initial D.T.W. (ft): 40.33 **Time:** 1235 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.33 **Time:** 1236 *(taken prior to purging well)*
Final D.T.W. (ft): 45.03 **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

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
1227	11.8	849	4.77	7.09	119.5	1	clear
	11.9	855	4.50	7.07	117.3	2	cloudy
	11.9	863	4.39	7.07	117.3	2.25	Muddy Bailed down
		low yield					
	Sampled @ 1250						

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: 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:

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
Tech: C. Lameman

Project No.:
Date: June 15, 2021
Time: 10:11 – 12:54
Form:

Well ID	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	—	39.58	—	
MW-2	—	40.63	—	
MW-3	—	39.92	—	
MW-4	—	40.45	—	unknown blockage @ 42.52
Interstitial Well	—	9.89	—	

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
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.58 **Time:** 12:25 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.58 **Time:** 12:27 *(taken prior to purging well)*
Final D.T.W. (ft): 44.75 **Time:** 12:42 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: June 15, 2021
Arrival Time: 12:18
Air Temp: 85°F Sunny, Hazy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI 2 **- Calibrated:** 6-15-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:31	15.12	0.958	6.37	7.28	148.3	Initial	Clear/W, odor
12:35	13.70	0.953	5.59	7.26	138.3	1.0	Tan Sed Particle / No Odor Low Yield
12:40							Samples Collected
							due to Low Yield
							and 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 (1-500mL 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 Volume ≈ 3 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
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.63 **Time:** 11:58 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.63 **Time:** 12:00 *(taken prior to purging well)*
Final D.T.W. (ft): 44.35 **Time:** 12:14 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: June 15, 2021
Arrival Time: 11:54
Air Temp: 85°F Sunny, Hazy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.56

Water Quality Parameters - Recorded During Well Purging
YSI 2 - Calibrated: 6-15-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:04	15.00	1.231	9.03	157.4	7.33	Initial	Cloudy / Sl. Turbid / No Odor
12:08	13.26	1.266	8.28	7.35	150.3	1.0	Tan Sed Turbid / No odor
12:12	—						Samples Collected due to Low Yields and 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 (1-500mL 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 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
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.92 **Time:** 11:30 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.92 **Time:** 11:32 *(taken prior to purging well)*
Final D.T.W. (ft): 44.01 **Time:** 11:47 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: June 15, 2021
Arrival Time: 11:26
Air Temp: 85°F Sunny, Hazy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI 2 - Calibrated: 6-15-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:38	14.84	1.611	5.76	7.28	164.5	Initial	Clear/No Odor
11:42	13.66	1.610	6.40	7.23	164.9	1.0	Tan Sed SL. Turbid / No Odor Low Yield
11:46	—						Samples Collected
							Due to Low Yield
							and 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 (1-500mL 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 Volume ≈ 2.75 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: CL
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.45 **Time:** 10:59 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.45 **Time:** 11:02 *(taken prior to purging well)*
Final D.T.W. (ft): 40.83 **Time:** 11:17 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.: AES
Date: June 15, 2021
Arrival Time: 10:56
Air Temp: 85°F Sunny, Hazy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.64

Water Quality Parameters - Recorded During Well Purging
YSI 2 **- Calibrated:** 6-15-21 CL

Time	Temp (deg C)	Conductivity ~~(uS)~~ (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:09	15.78	1.079	7.11	7.38	175.4	Initial	Clear / No odor
11:12	13.80	1.07	8.03	7.28	158.4	1.0	Turbid / No odor / Low Yield
11:16	—	—	—	—	—	—	Samples Collected
							Low Yield
							SEE NOTES
							BELOW.

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 drain
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
@ 42.52 unknown blockage. Bailer would not sink any further.

Well Casing Cap broken off. Well PVC Cap loosely secured in well.

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
Purge / No Purge: Purge
Well Diameter (in): 6

Project No.: AES
Date: June 15, 2021
Arrival Time: 10:20
Air Temp: 81°F Sunny, Hazy
T.O.C. Elev. (ft):
Total Well Depth (ft): 12.12

Initial D.T.W. (ft): 9.89 **Time:** 9 10:22 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.89 **Time:** 10:25 *(taken prior to purging well)*
Final D.T.W. (ft): 11.49 **Time:** 12:46 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

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

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
—	NO WATER RECHARGE - NO WATER QUALITY READINGS						
—	NO 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) CL
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: Into Evaporation Pond
Collected Samples Stored on Ice in Cooler: None
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: Purged 6 Gallons to as low as possible w/ bailer.
DTW = 11.5 @ 10:52 TD

No Recharge No Samples Collected

BMG Landfarm Soil Sampling - Treatment Zone (TZ)

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

Date: 6-16-2021 **Sampling Technician:** CA

CELL #1				
Sample ID:	TZ-1A	TZ-1B	TZ-1C	TZ-1D
GPS: (4 locations)	36° 23.336, -106° 51.956	36° 23.346, -106° 51.981	36° 23.358, -106° 51.998	36° 23.370, -106° 52.030
Time of sample into bag:	10:00	10:12	10:23	10:31
Sample depth (ft):	4-6"	4-6"	4-6"	4-6"
Soil characteristics: (odor, color, texture)	Dry, Brown, Roots, No odor Sand No Staining	Dry, Sand, Roots, No odor Brown No Staining	Dry, Sand, Brown, Roots, No odor No Stains	Dry, Sand, Brown, No Odor No Stains
Composite Sample Time:	10:36 PM said no samples			

CELL #2				
Sample ID:	TZ-2A	TZ-2B	TZ-2C	TZ-2D
GPS: (4 locations)	36° 23.415, -106° 52.013	36° 23.384, -106° 51.962	36° 23.403, -106° 51.952	36° 23.419, -106° 51.987
Time of sample into bag:	10:43	10:57	11:01	11:11
Sample depth (ft):	4-6"	4-6"	4-6"	4-6"
Soil characteristics: (odor, color, texture)	Brown, Sand, Dry, No odor No stains	Tan-Brown, Moist, Organics, No odor No Stains	Brown, Dry, Sand, No Odors No Stains	Tan-Brown, Dry, No Odors No Stains, Dead organics
Composite Sample Time:	11:13			

CELL #3				
Sample ID:	TZ-3A	TZ-3B	TZ-3C	TZ-3D
GPS: (4 locations)	36° 23.356, -106° 51.919	36° 23.348, -106° 51.894	36° 23.338, -106° 51.849	36° 23.364, -106° 51.844
Time of sample into bag:	11:22	11:34	11:42	11:50
Sample depth (ft):	4-6"	4-6"	4-6"	4-6"
Soil characteristics: (odor, color, texture)	Dry, Tan, Sand, Roots, No odor No Stains	Dry, Tan, Sand, Roots, No Odors No Stains	Sand and Gravel, Roots, No Odors No Stains	Sand, Dry, Roots, No Odors No Stains
Composite Sample Time:	11:53			

CELL #4				
Sample ID:	TZ-4A	TZ-4B	TZ-4C	TZ-4D
GPS: (4 locations)	36° 23.361, -106° 51.793	36° 23.345, -106° 51.785	36° 23.348, -106° 51.758	36° 23.333, -106° 51.791
Time of sample into bag:	12:03	12:17	12:27	12:37
Sample depth (ft):	4-6"	4-6"	4-6"	4-6"
Soil characteristics: (odor, color, texture)	Dry, Sand, No odors, Brown No Stains	Dry, Sand and Gravel, No Odors No Stains	Dry, Sand some Gravel, No Odors No Stains	Brown, Dry, Sand and Gravel No Odors No Stains
Composite Sample Time:	12:40 PM said no samples			

Additional Notes: All Treatment zones collected 4-6" BGS w/ shovel and composited for lab analysis.
Cell #1 has vegetation growth - not tilled.

BMG Landfarm Soil Sampling - Vadose Zone (VZ)

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

Date: 6-16-2021 **Sampling Technician:** CA

CELL #1				
Sample ID:	Cell #1 VZ S-1	Cell #1 VZ S-2	Cell #1 VZ S-3	Cell #1 VZ S-4
GPS: (4 locations)	See TZ Notes	See TZ Notes	See TZ Notes	See TZ Notes
Sample Time:	10:00	10:19	10:29	10:39
Shovel depth (ft)*:	2.5	2.25	2.25	2.0
Auger/Sample depth (ft)	2.75	2.5	2.5	2.5
Soil characteristics: (odor, color, texture)	Moist, Sand and Clay, No Odors No Stain	Moist, Sand and Clay, No Odors No Stains	Moist Brown, Clay and Sand No Odor, No Stains, some salt deposits	Moist, Brown, Clay and Sand some salt No Odor No Stain. Deposits

CELL #2				
Sample ID:	Cell #2 VZ S-1	Cell #2 VZ S-2	Cell #2 VZ S-3	Cell #2 VZ S-4
GPS: (4 locations)	See TZ Notes	See TZ Notes	See TZ Notes	See TZ Notes
Sample Time:	10:50	10:58	~~11:01~~ 11:08	11:18
Shovel depth (ft)*:	2.25	2.0	~~2.0~~ 2.25	2.0
Auger/Sample depth (ft)	2.5	2.5	2.5	2.5
Soil characteristics: (odor, color, texture)	Tan-Brown, Moist, No Odors No Stain	Brown, Moist, Sand and Clay No Odors No Stains	Tan-Brown, Moist, Sand CG No Odors, No Stains	Tan, Weathered SS, Moist, CG No Odors, No Stains

CELL #3				
Sample ID:	Cell #3 VZ S-1	Cell #3 VZ S-2	Cell #3 VZ S-3	Cell #3 VZ S-4
GPS: (4 locations)	See TZ Notes	See TZ Notes	See TZ Notes	See TZ Notes
Sample Time:	11:30	11:38	11:42	11:58
Shovel depth (ft)*:	2.0	2.0	2.25	2.25
Auger/Sample depth (ft)	2.5	2.5	2.5	2.5
Soil characteristics: (odor, color, texture)	Weathered SS, Moist, CG, No Odors No Stains	Clay, Gray-Tan, Moist, No Odors, No Stains	Clay, Brown, Moist, No Odors No Stains	Brown, Clay, Moist, No Odors No Stain

CELL #4				
Sample ID:	Cell #4 VZ S-1	Cell #4 VZ S-2	Cell #4 VZ S-3	Cell #4 VZ S-4
GPS: (4 locations)	See TZ Notes	See TZ Notes	See TZ Notes	See TZ Notes
Sample Time:	12:13	12:22	12:33	12:44
Shovel depth (ft)*:	2.0	2.0	2.5	2.0
Auger/Sample depth (ft)	2.5	2.5	2.75	2.5
Soil characteristics: (odor, color, texture)	Brown, Clay and Sand, Moist No Odors, No Stains	Brown, Clay and Sand, Moist No Odors, No Stains	Brown, Sandy Clay, Moist No Odors, No Stains	Brown, Sandy Clay, Moist No Odors, No Stains

* - Backhoe used to "shovel"

Additional Notes: All vadose zone samples accessed down with backhoe and then collected soil sample with Hand Auger. Hand Auger hole backfilled with Bentonite and hydrated. Backhoe hole backfilled w/ initial "shoved" dirt.

TREATMENT ZONE MONITORING LOCATIONS, MARCH 2019							
SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	CHLORIDE (mg/kg)
TZ-Cell #1	CELL #1	NO SAMPLES					
TZ-Cell #2	CELL #2	28-Mar-19	0.5	<4.6	190	370	<60
TZ-Cell #3	CELL #3	28-Mar-19	0.5	<4.7	48	98	<60
TZ-Cell #4	CELL #4	NO SAMPLES					
ALL SAMPLES WERE COMPOSITE SAMPLES.							

New sample locations based off on April 2020 field notes

Treatment and Vadose Zone Sample Locations June 16, 2021 C. Lameman

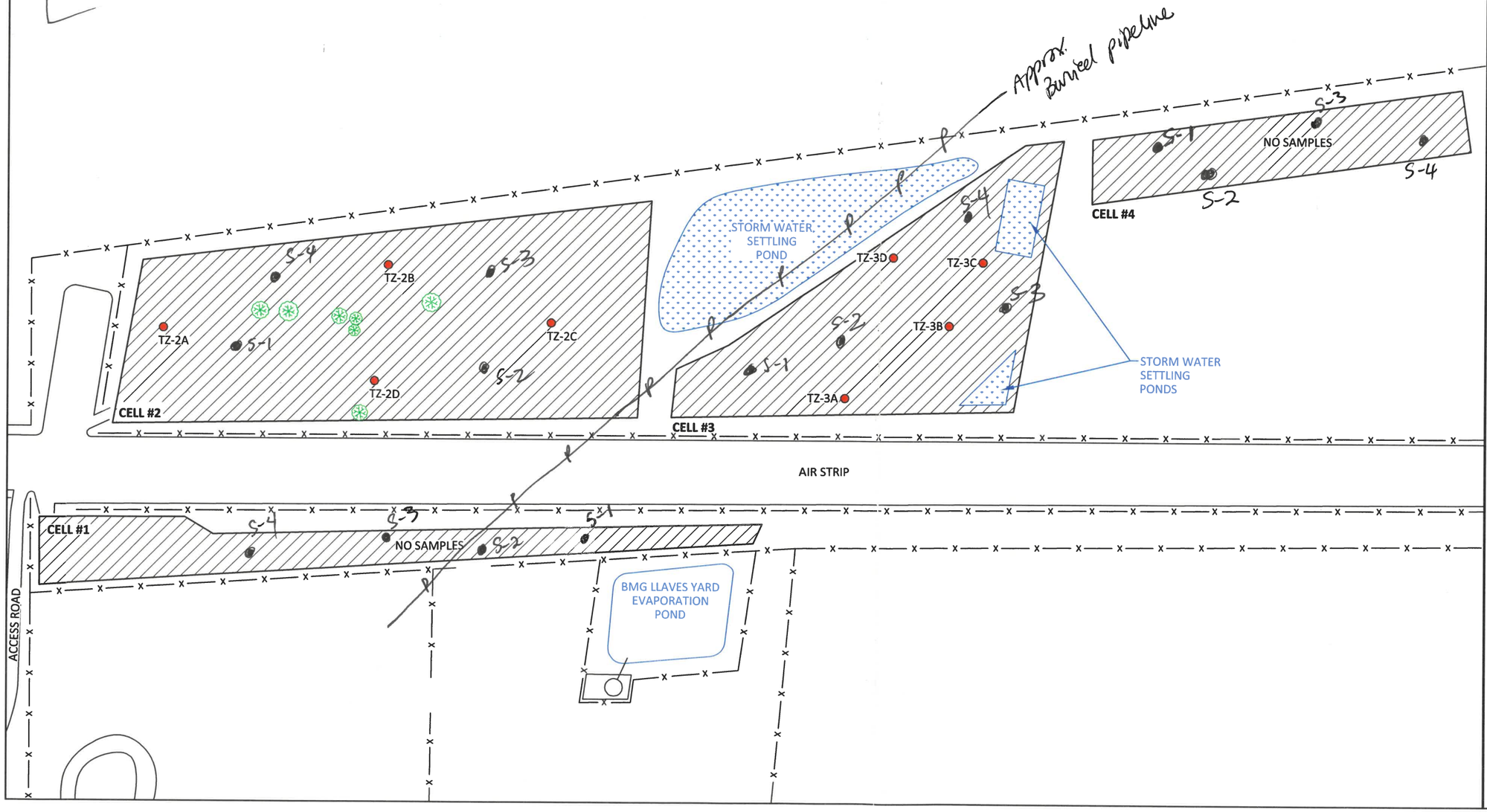


FIGURE 3

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND RESULTS 2019

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

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	DATE REVISED:
C. Lameman	February 28, 2020
CHECKED BY:	DATE CHECKED:
D. Reese	February 28, 2020
APPROVED BY:	DATE APPROVED:
E. McNally	February 28, 2020

LEGEND

- MARCH 2019 SAMPLE LOCATIONS

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

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
Tech: CL/JO

Project No.:
Date: 10-26-2021
Time: 1000-1245
Form:

Well ID	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	—	39.33	—	
MW-2	—	40.41	—	
MW-3	—	39.65	—	
MW-4	—	40.19	—	
Interstitial Well	—	10.04	—	

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/JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.33 **Time:** 11:07 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.33 **Time:** 11:09 *(taken prior to purging well)*
Final D.T.W. (ft): 41.26 **Time:** 12:42 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.: AES
Date: 10-26-2021
Arrival Time: 11:03
Air Temp: 45°F Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI 1 **- Calibrated:** 10-22-21 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:11	12.3	769	4.11	7.55	188.2	Initial	Clear / No Odor
11:15	11.9	743	4.75	7.25	224.3	1.0 Gallon	Turbid / No Odor
12:40							V. low Yield and
							Recharge - Samples
							Collected - Wait
							for 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 (1-500mL 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 Volume 7 3 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 / JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.41 **Time:** 12:17 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.41 **Time:** 12:20 *(taken prior to purging well)*
Final D.T.W. (ft): 44.40 **Time:** 12:30 *(taken after sample collection)*
If NAPL Present: D.T.P.: — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.: AES
Date: 10-26-2021
Arrival Time: 12:15
Air Temp: 47°F P.Cloudy/Windy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.56

Water Quality Parameters - Recorded During Well Purging
YSI 1 **- Calibrated:** 10-22-21 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:24	12.2	1055	6.69	7.15	260.0	Initial	Sl. Tan Sed / Sl. Turbid / No Odor
12:27	11.8	1059	7.11 7.16	7.16	251.4	1.0 Gallon	Tan Sed V. Turbid / No Odor
12:29	—	—	—	—	—	—	Low Yield - Low 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 - 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 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
Initial D.T.W. (ft): 39.65 Time: 11:50 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 39.85 Time: 11:55 (taken prior to purging well)
Final D.T.W. (ft): 43.83 Time: 12:12 (taken after sample collection)
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 10-26-2021
Arrival Time: 11:45
Air Temp: 47°F P.Cloudy/Windy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI 1 - Calibrated: 10-22-21 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:02	12.4	1238	2.66	6.96	226.3	Initial	Slt Turbid /No odor
12:05	12.5	1260	3.71	7.04	199.2	1.0 gal.	Turbid / No Odor
12:10							Low Yield - Can 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 - 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 Volume ≈ 3 Gallons
PVC Cap missing. Possible livestock breathing on stick-up

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/JO
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.19 Time: 11:27 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 40.19 Time: 11:30 (taken prior to purging well)
Final D.T.W. (ft): Time: (taken after sample collection)
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 10-26-2021
Arrival Time: 11:25
Air Temp: 46°F Cloudy/Windy
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.64

Water Quality Parameters - Recorded During Well Purging

YSI L - Calibrated: 10-22-21 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:34	11.9	773	4.37	7.13	267.3	Initial	Clear/No odor
11:37	11.7	770	5.87	7.08	275.3	1.0 gal.	Turbid Initial/No Odor
11:41							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 - 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 Volume ≈ 2.5 Gallons
PVC Cap not on well. Possible Livestock knocked it off

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): 10.04 **Time:** 10:41 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 10.04 **Time:** 10:43 *(taken prior to purging well)*
Final D.T.W. (ft): 10.35 **Time:** 10:55 *(taken after sample collection)*
If NAPL Present: D.T.P.: — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.: AES
Date: 10-26-2021
Arrival Time: 10:13
Air Temp: 47°F 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
—	NO WATER QUALITY READINGS — SEE NOTES BELOW						

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: into 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: 2.5 Gallons Purged.

Return to Well Reading = 10.35 DTW Well did not Recharge. No Samples Collected.

BMG Landfarm Soil Sampling - Vadose Zone (VZ)

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

Date: 6-26-2021 **Sampling Technician:** CJSD

CELL #1				
Sample ID:	Cell #1 VZ S-1	Cell #1 VZ S-2	Cell #1 VZ S-3	Cell #1 VZ S-4
GPS: (4 locations)				
Sample Time:				
Shovel depth (ft)*:	NO SAMPLES			
Auger/Sample depth (ft)				
Soil characteristics: (odor, color, texture)				

CELL #2				
Sample ID:	Cell #2 VZ S-1	Cell #2 VZ S-2	Cell #2 VZ S-3	Cell #2 VZ S-4
GPS: (4 locations)				
Sample Time:				
Shovel depth (ft)*:	NO SAMPLES			
Auger/Sample depth (ft)				
Soil characteristics: (odor, color, texture)				

CELL #3				
Sample ID:	Cell #3 VZ S-1	Cell #3 VZ S-2	Cell #3 VZ S-3	Cell #3 VZ S-4
GPS: (4 locations)	36.38904, -106.86469	36.38914, -106.86448	36.38926, -106.86424	36.38936, -106.86406
Sample Time:	9:14	9:28	9:39	9:53
Shovel depth (ft)*:	2.5	2.0	2.25	2.25
Auger/Sample depth (ft)	2.75	2.5	2.5	2.5
Soil characteristics: (odor, color, texture)	Clay, Brown, Hard, No Odor No Staining	Clay, Sand, Brown-Red, No Odor No Staining	Clay, BROWN, No Odor, Hard No Staining	Clay, Hard, Brown, No Odor No Staining

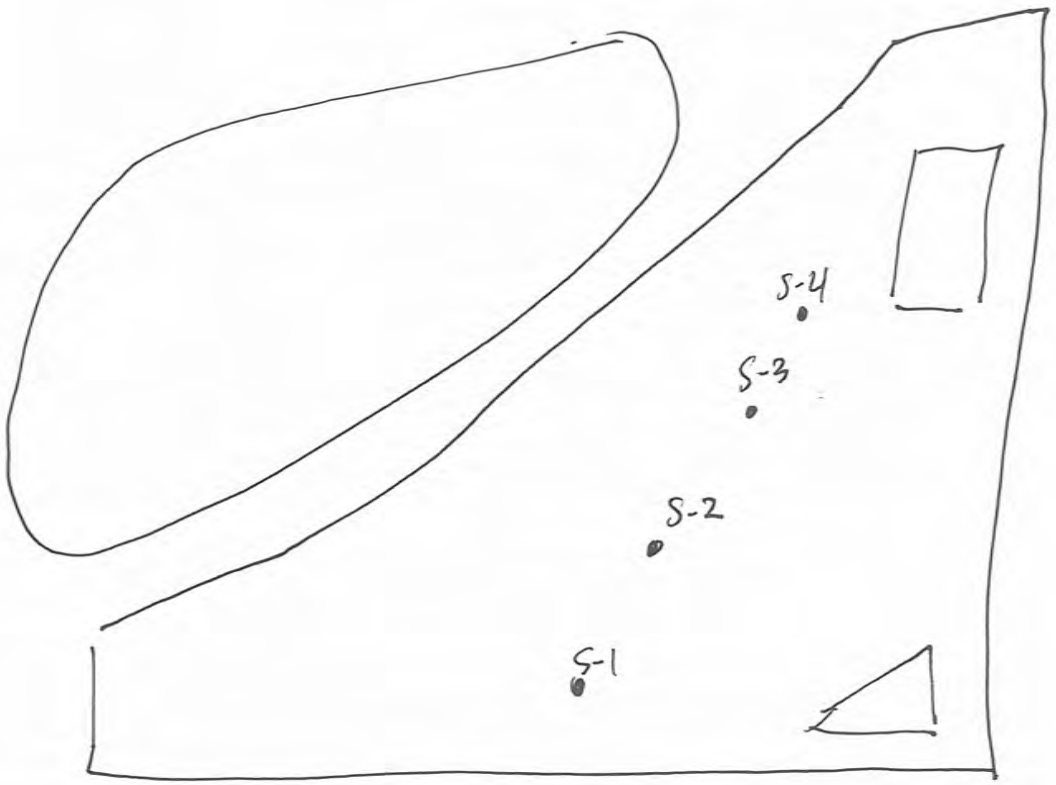
CELL #4				
Sample ID:	Cell #4 VZ S-1	Cell #4 VZ S-2	Cell #4 VZ S-3	Cell #4 VZ S-4
GPS: (4 locations)				
Sample Time:				
Shovel depth (ft)*:		NO SAMPLES		
Auger/Sample depth (ft)				
Soil characteristics: (odor, color, texture)				

* - Backhoe used to shovel.

Additional Notes: Slight Showers during sampling

10-26-21

Cell #3



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
Tech:

Project No.:
Date: 01-06-22
Time:
Form:

Well ID	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1		39.39		
MW-2		40.42		
MW-3		39.72		
MW-4		40.22		
Interstitial Well		10.36		

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): 39.39 **Time:** 11:34 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.39 **Time:** 11:36 *(taken prior to purging well)*
Final D.T.W. (ft): 45.01 **Time:** 11:55 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Project No.: AES
Date: 01-06-22
Arrival Time: 11:30
Air Temp: 29° Sunny
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
11:43	12.6	757	2.8	7.2	242.2	initial 25	Clear no odor
11:47	12.8	751	2.8	7.1	239.8	1 gallon	Turbid-Brownish no odor
11:53	—	—	—	—	—	—	Very low yield and 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, N. drainage to SW dissipation
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 average 30 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): 40.42 **Time:** 13:42 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.42 **Time:** 13:44 *(taken prior to purging well)*
Final D.T.W. (ft): 44.45 **Time:** 14:04 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 01-06-2022
Arrival Time: 13:39
Air Temp: 40° Sunny
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.56

Water Quality Parameters - Recorded During Well Purging
YSI / **- Calibrated:** 01-05-2022 JD

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:49	12.2	914	3.76	7.1	253.0	intial -25	Tan - Turbid no odor
13:55	12.2	890	3.87	7.2	252.9	1 gallons	SAA
13:59	—	—	—	—	—	Samples Collected	
						Low yield - 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 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No drainage to SW drain
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: Calculate Purge 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: JS
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 39.72 **Time:** 13:04 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.72 **Time:** 13:06 *(taken prior to purging well)*
Final D.T.W. (ft): 44.70 **Time:** 13:29 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.: AES
Date: 01-06-2022
Arrival Time: 13:01
Air Temp: 40° SUNNY
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.61

Water Quality Parameters - Recorded During Well Purging
YSI 1 **- Calibrated:** 01-05-2022 JO

Time	Temp (deg C)	Conductivity (~~µS~~) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:13	12.5	1191	2.84	6.9	260.2	int. 1.25	Turbid. Brown sed NO odor
13:20	12.7	1210	2.9	6.9	256.4	1 gallon	Brown turbid NS odor
1325							low yield 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 - No drains 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

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: JO
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES
Date: 1-6-2022
Arrival Time: 12:14
Air Temp: 29° Sunny
T.O.C. Elev. (ft):
Total Well Depth (ft): 45.64

Initial D.T.W. (ft): 40.22 Time: 12:20 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 40.22 Time: 12:26 (taken prior to purging well)
Final D.T.W. (ft): 40.75 Time: 12:53 (taken after sample collection)
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Water Quality Parameters - Recorded During Well Purging

YSI L - Calibrated: 01-05-2022 JO

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:35	12.6	766	3.6	7.1	247.6	initial 1.25	Clear No odor
12:41	12.1	754	3.6	7.0	250.2	1.0 gallons	Slightly Brown No odor
12:45						Sample collected	low yield/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 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On ground - No discharge 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: 2.65 gallons = calculated purge

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: JO
Purge / No Purge: Purge
Well Diameter (in): 6
Initial D.T.W. (ft): 10.36 **Time:** 11:06 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 10.36 **Time:** 11:07 *(taken prior to purging well)*
Final D.T.W. (ft): 11.01 **Time:** 11:25 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.: AES
Date: 01-06-22
Arrival Time: 10:47
Air Temp: 29° Sunny
T.O.C. Elev. (ft):
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging
YSI 1 **- Calibrated:** 01-05-22 JO

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					Brown no odor
		DUE TO 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 (1-500mL Plastic w/ no preserve)

Disposal of Purged Water: On Ground no drainage to SW drains (back into pond)
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: Calculated purge 900 ≈ 1 gallon
≈ 10.92 @ 14:15 - low yield

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 13, 2021

Elizabeth McNally

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

RE: BMG Landfarm OrderNo.: 2103964

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/19/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2103964**
Date Reported: **4/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: MW-1
Project: BMG Landfarm
Collection Date: 3/18/2021 12:25:00 PM
Lab ID: 2103964-001 **Matrix:** AQUEOUS **Received Date:** 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/20/2021 7:02:13 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/20/2021 7:02:13 PM
Surr: DNOP	127	63.7-164		%Rec	1	3/20/2021 7:02:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/23/2021 4:02:00 AM
Surr: BFB	95.3	66.7-119		%Rec	1	3/23/2021 4:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	21	5.0		mg/L	10	3/19/2021 6:05:36 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**
Benzene	ND	1.0		µg/L	1	3/27/2021 6:05:16 AM
Toluene	ND	1.0		µg/L	1	3/27/2021 6:05:16 AM
Ethylbenzene	ND	1.0		µg/L	1	3/27/2021 6:05:16 AM
Xylenes, Total	ND	1.5		µg/L	1	3/27/2021 6:05:16 AM
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	3/27/2021 6:05:16 AM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	3/27/2021 6:05:16 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	3/27/2021 6:05:16 AM
Surr: Toluene-d8	99.2	70-130		%Rec	1	3/27/2021 6:05:16 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	680	200	*D	mg/L	1	3/25/2021 6:39:00 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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2103964**
Date Reported: **4/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: MW-2
Project: BMG Landfarm
Collection Date: 3/18/2021 1:55:00 PM
Lab ID: 2103964-002 **Matrix:** AQUEOUS **Received Date:** 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/20/2021 7:15:38 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/20/2021 7:15:38 PM
Surr: DNOP	121	63.7-164		%Rec	1	3/20/2021 7:15:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/23/2021 4:21:00 AM
Surr: BFB	92.4	66.7-119		%Rec	1	3/23/2021 4:21:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	180	5.0		mg/L	10	3/19/2021 6:31:21 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**
Benzene	ND	1.0		µg/L	1	3/27/2021 6:33:53 AM
Toluene	ND	1.0		µg/L	1	3/27/2021 6:33:53 AM
Ethylbenzene	ND	1.0		µg/L	1	3/27/2021 6:33:53 AM
Xylenes, Total	ND	1.5		µg/L	1	3/27/2021 6:33:53 AM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%Rec	1	3/27/2021 6:33:53 AM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	3/27/2021 6:33:53 AM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	3/27/2021 6:33:53 AM
Surr: Toluene-d8	109	70-130		%Rec	1	3/27/2021 6:33:53 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	850	200	*D	mg/L	1	3/25/2021 6:39:00 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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2103964**
Date Reported: **4/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: MW-3
Project: BMG Landfarm
Collection Date: 3/18/2021 1:20:00 PM
Lab ID: 2103964-003 **Matrix:** AQUEOUS **Received Date:** 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/20/2021 7:29:06 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/20/2021 7:29:06 PM
Surr: DNOP	123	63.7-164		%Rec	1	3/20/2021 7:29:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/23/2021 4:41:00 AM
Surr: BFB	93.1	66.7-119		%Rec	1	3/23/2021 4:41:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	260	50	*	mg/L	100	3/19/2021 7:35:46 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**
Benzene	ND	1.0		µg/L	1	3/27/2021 7:02:28 AM
Toluene	ND	1.0		µg/L	1	3/27/2021 7:02:28 AM
Ethylbenzene	ND	1.0		µg/L	1	3/27/2021 7:02:28 AM
Xylenes, Total	ND	1.5		µg/L	1	3/27/2021 7:02:28 AM
Surr: 1,2-Dichloroethane-d4	92.6	70-130		%Rec	1	3/27/2021 7:02:28 AM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	3/27/2021 7:02:28 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	3/27/2021 7:02:28 AM
Surr: Toluene-d8	104	70-130		%Rec	1	3/27/2021 7:02:28 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1020	100	*D	mg/L	1	3/25/2021 6:39:00 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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2103964**
Date Reported: **4/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: MW-4
Project: BMG Landfarm
Collection Date: 3/18/2021 12:50:00 PM
Lab ID: 2103964-004 **Matrix:** AQUEOUS **Received Date:** 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/20/2021 7:42:30 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/20/2021 7:42:30 PM
Surr: DNOP	128	63.7-164		%Rec	1	3/20/2021 7:42:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/23/2021 5:01:00 AM
Surr: BFB	95.2	66.7-119		%Rec	1	3/23/2021 5:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	66	5.0		mg/L	10	3/19/2021 7:48:38 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**
Benzene	ND	1.0		µg/L	1	3/27/2021 7:31:05 AM
Toluene	ND	1.0		µg/L	1	3/27/2021 7:31:05 AM
Ethylbenzene	ND	1.0		µg/L	1	3/27/2021 7:31:05 AM
Xylenes, Total	ND	1.5		µg/L	1	3/27/2021 7:31:05 AM
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%Rec	1	3/27/2021 7:31:05 AM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	3/27/2021 7:31:05 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	3/27/2021 7:31:05 AM
Surr: Toluene-d8	105	70-130		%Rec	1	3/27/2021 7:31:05 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	760	200	*D	mg/L	1	3/25/2021 6:39:00 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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2103964**
Date Reported: **4/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: Trip Blank
Project: BMG Landfarm
Collection Date:
Lab ID: 2103964-005 **Matrix:** TRIP BLANK **Received Date:** 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**
Benzene	ND	1.0		µg/L	1	3/27/2021 7:59:39 AM
Toluene	ND	1.0		µg/L	1	3/27/2021 7:59:39 AM
Ethylbenzene	ND	1.0		µg/L	1	3/27/2021 7:59:39 AM
Xylenes, Total	ND	1.5		µg/L	1	3/27/2021 7:59:39 AM
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	1	3/27/2021 7:59:39 AM
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	3/27/2021 7:59:39 AM
Surr: Dibromofluoromethane	98.8	70-130		%Rec	1	3/27/2021 7:59:39 AM
Surr: Toluene-d8	103	70-130		%Rec	1	3/27/2021 7:59:39 AM

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	Value above quantitation range
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 range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2103964**
13-Apr-21

Client: Animas Environmental
Project: BMG Landfarm

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R76087**	RunNo: **76087**							
Prep Date:	Analysis Date: **3/19/2021**	SeqNo: **2693421**	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: **R76087**	RunNo: **76087**							
Prep Date:	Analysis Date: **3/19/2021**	SeqNo: **2693422**	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			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2103964**
13-Apr-21

Client: Animas Environmental
Project: BMG Landfarm

Sample ID: **MB-58849**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **58849**	RunNo: **76096**
Prep Date: **3/19/2021**	Analysis Date: **3/20/2021**	SeqNo: **2694195** 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	1.1		1.000		110	63.7	164			

Sample ID: **LCS-58849**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **58849**	RunNo: **76096**
Prep Date: **3/19/2021**	Analysis Date: **3/20/2021**	SeqNo: **2694196** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	105	70	130			
Surr: DNOP	0.55		0.5000		110	63.7	164			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2103964**
13-Apr-21

Client: Animas Environmental
Project: BMG Landfarm

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R76132**	RunNo: **76132**
Prep Date:	Analysis Date: **3/23/2021**	SeqNo: **2695414** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	104	72.5	114			
Surr: BFB	21		20.00		106	66.7	119			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R76132**	RunNo: **76132**
Prep Date:	Analysis Date: **3/23/2021**	SeqNo: **2695415** 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	17		20.00		85.2	66.7	119			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2103964**
13-Apr-21

Client: Animas Environmental
Project: BMG Landfarm

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A76266**	RunNo: **76266**
Prep Date:	Analysis Date: **3/26/2021**	SeqNo: **2700496** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	98.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.7	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A76266**	RunNo: **76266**
Prep Date:	Analysis Date: **3/26/2021**	SeqNo: **2700497** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.0	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.2	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		103	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2103964**
13-Apr-21

Client: Animas Environmental
Project: BMG Landfarm

Sample ID: **MB-58933**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **58933**	RunNo: **76227**
Prep Date: **3/24/2021**	Analysis Date: **3/25/2021**	SeqNo: **2698589** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-58933**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **58933**	RunNo: **76227**
Prep Date: **3/24/2021**	Analysis Date: **3/25/2021**	SeqNo: **2698590** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2103964 | RcptNo: 1

Received By: Juan Rojas 3/19/2021 8:45:00 AM

Completed By: Sean Livingston 3/19/2021 9:32:56 AM

Reviewed By: JR 3/19/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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: 3/19/21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: P.O. Box 8
Farmington, NM 87499-00008

Phone #: 505-564-2281

email or Fax#: dreese@animasenvironmental.com

QA/QC Package:
X Standard □ Level 4 (Full Validation)

Accreditation:
□ NELAP □ Other

□ EDD (Type)

Turn-Around Time:
X Standard □ Rush

Project Name: BMG Landfarm

Project #: AES 040605

Project Manager: Elizabeth McNally, David Reese

Sampler: E Hubbert

On Ice: ~~X~~ Yes □ No

Sample Temperature: 1.2+0.2=1.4

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 Request ID	Container Type and #	Preservative Type	HEAL No. 2103964	BTEX 8260	TPH (GRO/DRO/MRO) 8015	TDS SM2540C	Chlorides 300.0	Air Bubbles (Y or N)
3/18/21	1225	H2O	MW-1	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	001	X	X	X	X	
3/18/21	1355	H2O	MW-2	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	002	X	X	X	X	
3/18/21	1320	H2O	MW-3	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	003	X	X	X	X	
3/18/21	1250	H2O	MW-4	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	004	X	X	X	X	
		~~H2O~~		(3) 40 mL glass ~~(1) 250 mL amber glass~~ (1) 500 mL plastic	3-HgCl2 ~~cool~~ 2-Non						
		H2O	Trip Blank		Cold	005	X				

Date	Time	Relinquished by:	Received by:	Date	Time
3/18/21	1630			3/18/21	1630
3/18/21	1753		courier	3/19/21	0745

Remarks: Direct bill to BMG. Call with Questions.

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: clients.hallenvironmental.com

July 06, 2021

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

RE: BMG Landfarm MWs and Interstitial Well OrderNo.: 2106A64

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/19/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2106A64**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** MW-1
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 6/15/2021 12:40:00 PM
Lab ID: 2106A64-001 **Matrix:** GROUNDWA **Received Date:** 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	23	2.5		mg/L	5	6/21/2021 8:19:03 PM	R79242
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JMT**	
Total Dissolved Solids	609	20.0	*	mg/L	1	6/23/2021 6:12:00 PM	60816
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/23/2021 3:28:00 PM	G79292
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	6/23/2021 3:28:00 PM	G79292
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/23/2021 9:16:04 PM	60827
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/23/2021 9:16:04 PM	60827
Surr: DNOP	108	63.7-164		%Rec	1	6/23/2021 9:16:04 PM	60827
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/23/2021 3:28:00 PM	S79292
Toluene	ND	1.0		µg/L	1	6/23/2021 3:28:00 PM	S79292
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 3:28:00 PM	S79292
Xylenes, Total	ND	1.5		µg/L	1	6/23/2021 3:28:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/23/2021 3:28:00 PM	S79292
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/23/2021 3:28:00 PM	S79292
Surr: Toluene-d8	95.3	70-130		%Rec	1	6/23/2021 3:28:00 PM	S79292

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

Qualifiers:

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

Analytical Report
Lab Order **2106A64**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** MW-2
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 6/15/2021 12:12:00 PM
Lab ID: 2106A64-002 **Matrix:** GROUNDWA **Received Date:** 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	170	10		mg/L	20	6/21/2021 8:57:40 PM	R79242
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**JMT**
Total Dissolved Solids	670	100	*D	mg/L	1	6/23/2021 6:12:00 PM	60816
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/23/2021 3:51:00 PM	G79292
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	6/23/2021 3:51:00 PM	G79292
EPA METHOD 8015M/D: DIESEL RANGE						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/23/2021 9:40:28 PM	60827
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/23/2021 9:40:28 PM	60827
Surr: DNOP	99.0	63.7-164		%Rec	1	6/23/2021 9:40:28 PM	60827
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst:	**RAA**
Benzene	ND	1.0		µg/L	1	6/23/2021 3:51:00 PM	S79292
Toluene	ND	1.0		µg/L	1	6/23/2021 3:51:00 PM	S79292
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 3:51:00 PM	S79292
Xylenes, Total	ND	1.5		µg/L	1	6/23/2021 3:51:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	6/23/2021 3:51:00 PM	S79292
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/23/2021 3:51:00 PM	S79292
Surr: Toluene-d8	95.1	70-130		%Rec	1	6/23/2021 3:51:00 PM	S79292

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

Qualifiers:

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

Analytical Report
Lab Order **2106A64**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** MW-3
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 6/15/2021 11:46:00 AM
Lab ID: 2106A64-003 **Matrix:** GROUNDWA **Received Date:** 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	270	10	*	mg/L	20	6/21/2021 9:23:23 PM	R79242
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JMT**	
Total Dissolved Solids	960	20.0	*	mg/L	1	6/23/2021 6:12:00 PM	60816
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/23/2021 4:14:00 PM	G79292
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	6/23/2021 4:14:00 PM	G79292
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/23/2021 10:04:41 PM	60827
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/23/2021 10:04:41 PM	60827
Surr: DNOP	105	63.7-164		%Rec	1	6/23/2021 10:04:41 PM	60827
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/23/2021 4:14:00 PM	S79292
Toluene	ND	1.0		µg/L	1	6/23/2021 4:14:00 PM	S79292
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 4:14:00 PM	S79292
Xylenes, Total	ND	1.5		µg/L	1	6/23/2021 4:14:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	6/23/2021 4:14:00 PM	S79292
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/23/2021 4:14:00 PM	S79292
Surr: Toluene-d8	95.4	70-130		%Rec	1	6/23/2021 4:14:00 PM	S79292

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A64**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** MW-4
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 6/15/2021 11:16:00 AM
Lab ID: 2106A64-004 **Matrix:** GROUNDWA **Received Date:** 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	79	2.5		mg/L	5	6/21/2021 9:36:16 PM	R79242
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JMT**	
Total Dissolved Solids	135	20.0		mg/L	1	6/23/2021 6:12:00 PM	60816
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/23/2021 4:38:00 PM	G79292
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	6/23/2021 4:38:00 PM	G79292
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/23/2021 10:28:44 PM	60827
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/23/2021 10:28:44 PM	60827
Surr: DNOP	110	63.7-164		%Rec	1	6/23/2021 10:28:44 PM	60827
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/23/2021 4:38:00 PM	S79292
Toluene	ND	1.0		µg/L	1	6/23/2021 4:38:00 PM	S79292
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 4:38:00 PM	S79292
Xylenes, Total	ND	1.5		µg/L	1	6/23/2021 4:38:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	6/23/2021 4:38:00 PM	S79292
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/23/2021 4:38:00 PM	S79292
Surr: Toluene-d8	94.7	70-130		%Rec	1	6/23/2021 4:38:00 PM	S79292

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A64**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** Trip Blank
Project: BMG Landfarm MWs and Interstitial We **Collection Date:**
Lab ID: 2106A64-005 **Matrix:** TRIP BLANK **Received Date:** 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/23/2021 5:01:00 PM	S79292
Toluene	ND	1.0		µg/L	1	6/23/2021 5:01:00 PM	S79292
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 5:01:00 PM	S79292
Xylenes, Total	ND	1.5		µg/L	1	6/23/2021 5:01:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	6/23/2021 5:01:00 PM	S79292
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/23/2021 5:01:00 PM	S79292
Surr: Toluene-d8	95.2	70-130		%Rec	1	6/23/2021 5:01:00 PM	S79292

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	Value above quantitation range
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 range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A64**
06-Jul-21

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

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R79242**	RunNo: **79242**							
Prep Date:	Analysis Date: **6/21/2021**	SeqNo: **2782709**	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: **R79242**	RunNo: **79242**							
Prep Date:	Analysis Date: **6/21/2021**	SeqNo: **2782718**	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	96.2	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A64**
06-Jul-21

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

Sample ID: **MB-60827**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **60827**	RunNo: **79239**
Prep Date: **6/22/2021**	Analysis Date: **6/23/2021**	SeqNo: **2786811** 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		103	63.7	164			

Sample ID: **LCS-60827**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **60827**	RunNo: **79239**
Prep Date: **6/22/2021**	Analysis Date: **6/23/2021**	SeqNo: **2786812** 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	98.8	70	130			
Surr: DNOP	0.27		0.2500		107	63.7	164			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A64**
06-Jul-21

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

Sample ID: **100ng 8260 lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **S79292**	RunNo: **79292**
Prep Date:	Analysis Date: **6/23/2021**	SeqNo: **2786263** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	19	1.0	20.00	0	93.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.5		10.00		94.8	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **S79292**	RunNo: **79292**
Prep Date:	Analysis Date: **6/23/2021**	SeqNo: **2786264** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.8	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.7		10.00		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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A64**
06-Jul-21

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

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **G79292**	RunNo: **79292**
Prep Date:	Analysis Date: **6/23/2021**	SeqNo: **2786297** 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	94.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **G79292**	RunNo: **79292**
Prep Date:	Analysis Date: **6/23/2021**	SeqNo: **2786299** 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: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A64**
06-Jul-21

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

Sample ID: **MB-60816**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **60816**	RunNo: **79315**
Prep Date: **6/22/2021**	Analysis Date: **6/23/2021**	SeqNo: **2785854** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-60816**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **60816**	RunNo: **79315**
Prep Date: **6/22/2021**	Analysis Date: **6/23/2021**	SeqNo: **2785855** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental Services** Work Order Number: **2106A64** RcptNo: 1

Received By: **Desiree Dominguez** 6/19/2021 8:40:00 AM DD

Completed By: **Desiree Dominguez** 6/19/2021 10:48:21 AM DD

Reviewed By: SPA 6.21.21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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: TC. 6.21.21

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

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: Corwin Lameman

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4+0.3 =1.7°c

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. 2106A64	BTEX via Method 8021	TPH GRO / DRO / MRO via EPA8015M/D	Chlorides via EPA300.0	Total Dissolved Solids via SM2540C	Analysis Request
6-15-21	12:40	GW H_2O	MW-1	(3) 40 mL glass (1) 250 mL amber glass (1) ~~500 mL~~ plastic	3-HgCl2 ~~cool~~ 2-Non	-001	x	x	x	x	
6-15-21	12:12	GW H_2O	MW-2	(3) 40 mL glass (1) 250 mL amber glass (1) ~~500 mL~~ plastic	3-HgCl2 ~~cool~~ 2-Non	-002	x	x	x	x	
6-15-21	11:46	GW H_2O	MW-3	(3) 40 mL glass (1) 250 mL amber glass (1) ~~500 mL~~ plastic	3-HgCl2 ~~cool~~ 2-Non	-003	x	x	x	x	
6-15-21	11:16	GW H_2O	MW-4	(3) 40 mL glass (1) 250 mL amber glass (1) ~~500 mL~~ plastic	3-HgCl2 ~~cool~~ 2-Non	-004	x	x	x	x	
~~—~~		~~GW~~	~~Interstitial Well~~	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non		~~x~~	~~x~~	~~x~~	~~x~~	
		W H_2O	Trip Blank	2 x 40 mL vials	~~Cold~~	-005	x				

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/18	1200				6/18	1260
6/18	1600			courier	6.19.21	8:40

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: clients.hallenvironmental.com

July 09, 2021

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

RE: BMG Landfarm OrderNo.: 2106A62

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/19/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2106A62**
Date Reported: **7/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: Cell #2 T2 CS-1
Project: BMG Landfarm
Collection Date: 6/16/2021 11:13:00 AM
Lab ID: 2106A62-001 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	350	100		mg/Kg	10	6/28/2021 6:00:28 AM
Motor Oil Range Organics (MRO)	850	500		mg/Kg	10	6/28/2021 6:00:28 AM
Surr: DNOP	0	70-130	S	%Rec	10	6/28/2021 6:00:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	6/29/2021 12:25:55 PM
Surr: BFB	98.6	70-130	D	%Rec	5	6/29/2021 12:25:55 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	ND	60		mg/Kg	20	7/6/2021 1:58:08 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	Value above quantitation range
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 range due to dilution or matrix

Analytical Report
Lab Order **2106A62**
Date Reported: **7/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: Cell #3 T2 CS-1
Project: BMG Landfarm
Collection Date: 6/16/2021 11:53:00 AM
Lab ID: 2106A62-002 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**
Diesel Range Organics (DRO)	41	9.8		mg/Kg	1	6/28/2021 3:59:24 AM
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	6/28/2021 3:59:24 AM
Surr: DNOP	74.4	70-130		%Rec	1	6/28/2021 3:59:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2021 12:49:34 PM
Surr: BFB	99.2	70-130		%Rec	1	6/29/2021 12:49:34 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	ND	60		mg/Kg	20	7/6/2021 2:35:22 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	Value above quantitation range
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 range due to dilution or matrix

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A62**
09-Jul-21

Client: Animas Environmental
Project: BMG Landfarm

Sample ID: **LCS-61120**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **61120**	RunNo: **79587**							
Prep Date: **7/6/2021**	Analysis Date: **7/6/2021**	SeqNo: **2799387**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.3	90	110			

Sample ID: **MB-61120**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **61120**	RunNo: **79587**							
Prep Date: **7/6/2021**	Analysis Date: **7/6/2021**	SeqNo: **2799388**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A62**
09-Jul-21

Client: Animas Environmental
Project: BMG Landfarm

Sample ID: **MB-60915**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60915**	RunNo: **79325**
Prep Date: **6/24/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789501** 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	9.8		10.00		98.4	70	130			

Sample ID: **LCS-60915**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60915**	RunNo: **79325**
Prep Date: **6/24/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789503** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	68.9	141			
Surr: DNOP	4.7		5.000		93.7	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A62**
09-Jul-21

Client: Animas Environmental
Project: BMG Landfarm

Sample ID: **mb-60893**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **60893**	RunNo: **79456**							
Prep Date: **6/24/2021**	Analysis Date: **6/29/2021**	SeqNo: **2792789**	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	990		1000		99.0	70	130			

Sample ID: **lcs-60893**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **60893**	RunNo: **79456**							
Prep Date: **6/24/2021**	Analysis Date: **6/29/2021**	SeqNo: **2792790**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		112	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2106A62 | RcptNo: 1

Received By: Desiree Dominguez 6/19/2021 8:40:00 AM DD

Completed By: Desiree Dominguez 6/19/2021 10:21:09 AM DD

Reviewed By: SPA 6.21.21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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: T.C. 6.21.21

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: P.O. Box 8
Farmington, NM 87499

Phone #: 505.564.2281

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

Project #: AES 040605

Project Manager: Angela Ledgerwood
Elizabeth McNally

Sampler: CL/GB

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4+0.3=1.7 (°C)

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. 2106A62
6-16-21	11:13	Soil	Cell #2 T2 CS-1	1-4oz jars	1-cool	-001
6-16-21	11:53	Soil	Cell #3 T2 CS-1	1-4oz jars	1-cool	-002

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides via Method 300.0	Air					
	X									X						
	X									X						

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/18	1200				6/18/21	1200
6/18	1610			Courier	6.19.21	8:40

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: clients.hallenvironmental.com

July 06, 2021

Angela Ledgerwood

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

RE: BMG LandFarm VZ Soil Samples OrderNo.: 2106A71

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 16 sample(s) on 6/19/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 VZ S-1
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 10:10:00 AM
Lab ID: 2106A71-001 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Fluoride	2.9	1.5		mg/Kg	5	6/28/2021 11:32:14 AM	60959
Chloride	32	7.5		mg/Kg	5	6/28/2021 11:32:14 AM	60959
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	6/28/2021 11:32:14 AM	60959
Bromide	ND	1.5		mg/Kg	5	6/28/2021 11:32:14 AM	60959
Nitrogen, Nitrate (As N)	11	1.5		mg/Kg	5	6/28/2021 11:32:14 AM	60959
Sulfate	19	7.5		mg/Kg	5	6/28/2021 11:32:14 AM	60959
EPA METHOD 7471: MERCURY						Analyst: **ags**	
Mercury	ND	0.033		mg/Kg	1	6/29/2021 4:55:14 PM	60970
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**	
Arsenic	ND	5.0		mg/Kg	2	6/24/2021 4:13:54 PM	60877
Barium	140	0.20		mg/Kg	2	6/24/2021 12:50:02 PM	60877
Cadmium	ND	0.20		mg/Kg	2	6/24/2021 12:50:02 PM	60877
Calcium	4300	50		mg/Kg	2	6/24/2021 12:50:02 PM	60877
Chromium	13	0.60		mg/Kg	2	6/24/2021 12:50:02 PM	60877
Lead	3.7	0.60		mg/Kg	2	6/25/2021 4:33:45 PM	60877
Magnesium	2900	50		mg/Kg	2	6/24/2021 12:50:02 PM	60877
Potassium	2100	100		mg/Kg	2	6/24/2021 12:50:02 PM	60877
Selenium	ND	5.0		mg/Kg	2	6/24/2021 12:50:02 PM	60877
Silver	ND	0.50		mg/Kg	2	6/24/2021 12:50:02 PM	60877
Sodium	190	50		mg/Kg	2	6/24/2021 12:50:02 PM	60877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/24/2021 2:26:16 PM	60867
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2021 2:26:16 PM	60867
Surr: DNOP	87.0	70-130		%Rec	1	6/24/2021 2:26:16 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 7:11:00 PM	60823
Surr: BFB	87.0	70-130		%Rec	1	6/27/2021 7:11:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	6/27/2021 7:11:00 PM	60823
Toluene	ND	0.046		mg/Kg	1	6/27/2021 7:11:00 PM	60823
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 7:11:00 PM	60823
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2021 7:11:00 PM	60823
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	6/27/2021 7:11:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 VZ S-2
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 10:19:00 AM
Lab ID: 2106A71-002 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	66	60		mg/Kg	20	6/25/2021 5:13:03 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/24/2021 3:39:02 PM	60867
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2021 3:39:02 PM	60867
Surr: DNOP	79.6	70-130		%Rec	1	6/24/2021 3:39:02 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2021 7:31:00 PM	60823
Surr: BFB	87.4	70-130		%Rec	1	6/27/2021 7:31:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	6/27/2021 7:31:00 PM	60823
Toluene	ND	0.049		mg/Kg	1	6/27/2021 7:31:00 PM	60823
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2021 7:31:00 PM	60823
Xylenes, Total	ND	0.097		mg/Kg	1	6/27/2021 7:31:00 PM	60823
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	6/27/2021 7:31:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 VZ S-3
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 10:29:00 AM
Lab ID: 2106A71-003 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	6/25/2021 5:25:28 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/24/2021 4:03:22 PM	60867
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/24/2021 4:03:22 PM	60867
Surr: DNOP	80.8	70-130		%Rec	1	6/24/2021 4:03:22 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 7:51:00 PM	60823
Surr: BFB	90.8	70-130		%Rec	1	6/27/2021 7:51:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	6/27/2021 7:51:00 PM	60823
Toluene	ND	0.046		mg/Kg	1	6/27/2021 7:51:00 PM	60823
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 7:51:00 PM	60823
Xylenes, Total	ND	0.092		mg/Kg	1	6/27/2021 7:51:00 PM	60823
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	6/27/2021 7:51:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 VZ S-4
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 10:39:00 AM
Lab ID: 2106A71-004 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	6/25/2021 5:37:53 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/24/2021 4:27:33 PM	60867
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2021 4:27:33 PM	60867
Surr: DNOP	81.9	70-130		%Rec	1	6/24/2021 4:27:33 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 8:11:00 PM	60823
Surr: BFB	87.4	70-130		%Rec	1	6/27/2021 8:11:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	6/27/2021 8:11:00 PM	60823
Toluene	ND	0.046		mg/Kg	1	6/27/2021 8:11:00 PM	60823
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 8:11:00 PM	60823
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2021 8:11:00 PM	60823
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	6/27/2021 8:11:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 VZ S-1
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 10:50:00 AM
Lab ID: 2106A71-005 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Fluoride	ND	1.5		mg/Kg	5	6/28/2021 12:21:53 PM	60959
Chloride	29	7.5		mg/Kg	5	6/28/2021 12:21:53 PM	60959
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	6/28/2021 12:21:53 PM	60959
Bromide	ND	1.5		mg/Kg	5	6/28/2021 12:21:53 PM	60959
Nitrogen, Nitrate (As N)	3.0	1.5		mg/Kg	5	6/28/2021 12:21:53 PM	60959
Sulfate	120	7.5		mg/Kg	5	6/28/2021 12:21:53 PM	60959
EPA METHOD 7471: MERCURY						Analyst: **ags**	
Mercury	ND	0.035		mg/Kg	1	6/29/2021 4:57:21 PM	60970
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**	
Arsenic	ND	4.9		mg/Kg	2	6/24/2021 4:15:22 PM	60877
Barium	160	0.20		mg/Kg	2	6/24/2021 12:52:18 PM	60877
Cadmium	ND	0.20		mg/Kg	2	6/24/2021 12:52:18 PM	60877
Calcium	4600	49		mg/Kg	2	6/24/2021 12:52:18 PM	60877
Chromium	8.1	0.59		mg/Kg	2	6/24/2021 12:52:18 PM	60877
Lead	4.4	0.59		mg/Kg	2	6/25/2021 4:35:32 PM	60877
Magnesium	2000	49		mg/Kg	2	6/24/2021 12:52:18 PM	60877
Potassium	1400	98		mg/Kg	2	6/24/2021 12:52:18 PM	60877
Selenium	ND	4.9		mg/Kg	2	6/24/2021 12:52:18 PM	60877
Silver	ND	0.49		mg/Kg	2	6/24/2021 12:52:18 PM	60877
Sodium	93	49		mg/Kg	2	6/24/2021 12:52:18 PM	60877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/24/2021 4:51:57 PM	60867
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2021 4:51:57 PM	60867
Surr: DNOP	80.0	70-130		%Rec	1	6/24/2021 4:51:57 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2021 8:30:00 PM	60823
Surr: BFB	90.6	70-130		%Rec	1	6/27/2021 8:30:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 8:30:00 PM	60823
Toluene	ND	0.048		mg/Kg	1	6/27/2021 8:30:00 PM	60823
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2021 8:30:00 PM	60823
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 8:30:00 PM	60823
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	6/27/2021 8:30:00 PM	60823

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

Qualifiers:

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

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 VZ S-2
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 10:58:00 AM
Lab ID: 2106A71-006 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	6/25/2021 5:50:18 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/24/2021 5:16:15 PM	60867
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2021 5:16:15 PM	60867
Surr: DNOP	79.6	70-130		%Rec	1	6/24/2021 5:16:15 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 8:50:00 PM	60823
Surr: BFB	93.1	70-130		%Rec	1	6/27/2021 8:50:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	6/27/2021 8:50:00 PM	60823
Toluene	ND	0.046		mg/Kg	1	6/27/2021 8:50:00 PM	60823
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 8:50:00 PM	60823
Xylenes, Total	ND	0.092		mg/Kg	1	6/27/2021 8:50:00 PM	60823
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	6/27/2021 8:50:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 VZ S-3
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 11:08:00 AM
Lab ID: 2106A71-007 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	6/25/2021 6:02:43 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/24/2021 5:40:42 PM	60867
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2021 5:40:42 PM	60867
Surr: DNOP	81.7	70-130		%Rec	1	6/24/2021 5:40:42 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 9:10:00 PM	60823
Surr: BFB	100	70-130		%Rec	1	6/27/2021 9:10:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	6/27/2021 9:10:00 PM	60823
Toluene	ND	0.047		mg/Kg	1	6/27/2021 9:10:00 PM	60823
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 9:10:00 PM	60823
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 9:10:00 PM	60823
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	6/27/2021 9:10:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 VZ S-4
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 11:18:00 AM
Lab ID: 2106A71-008 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	67	60		mg/Kg	20	6/25/2021 6:15:08 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/24/2021 6:29:35 PM	60867
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2021 6:29:35 PM	60867
Surr: DNOP	85.0	70-130		%Rec	1	6/24/2021 6:29:35 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 10:10:00 PM	60823
Surr: BFB	95.2	70-130		%Rec	1	6/27/2021 10:10:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	6/27/2021 10:10:00 PM	60823
Toluene	ND	0.047		mg/Kg	1	6/27/2021 10:10:00 PM	60823
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 10:10:00 PM	60823
Xylenes, Total	ND	0.094		mg/Kg	1	6/27/2021 10:10:00 PM	60823
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	6/27/2021 10:10:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ S-1
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 11:30:00 AM
Lab ID: 2106A71-009 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Fluoride	ND	1.5		mg/Kg	5	6/28/2021 1:11:30 PM	60959
Chloride	13	7.5		mg/Kg	5	6/28/2021 1:11:30 PM	60959
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	6/28/2021 1:11:30 PM	60959
Bromide	ND	1.5		mg/Kg	5	6/28/2021 1:11:30 PM	60959
Nitrogen, Nitrate (As N)	9.8	1.5		mg/Kg	5	6/28/2021 1:11:30 PM	60959
Sulfate	47	7.5		mg/Kg	5	6/28/2021 1:11:30 PM	60959
EPA METHOD 7471: MERCURY						Analyst: **ags**	
Mercury	ND	0.034		mg/Kg	1	6/29/2021 4:59:25 PM	60970
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**	
Arsenic	4.5	2.4		mg/Kg	1	6/24/2021 4:16:51 PM	60877
Barium	92	0.098		mg/Kg	1	6/24/2021 12:25:37 PM	60877
Cadmium	ND	0.098		mg/Kg	1	6/24/2021 12:25:37 PM	60877
Calcium	1600	24		mg/Kg	1	6/24/2021 12:25:37 PM	60877
Chromium	4.4	0.29		mg/Kg	1	6/24/2021 12:25:37 PM	60877
Lead	2.9	0.29		mg/Kg	1	6/25/2021 4:37:19 PM	60877
Magnesium	1000	24		mg/Kg	1	6/24/2021 12:25:37 PM	60877
Potassium	680	49		mg/Kg	1	6/24/2021 12:25:37 PM	60877
Selenium	ND	2.4		mg/Kg	1	6/24/2021 12:25:37 PM	60877
Silver	ND	0.24		mg/Kg	1	6/24/2021 12:25:37 PM	60877
Sodium	68	24		mg/Kg	1	6/24/2021 12:25:37 PM	60877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/24/2021 6:54:01 PM	60867
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/24/2021 6:54:01 PM	60867
Surr: DNOP	82.4	70-130		%Rec	1	6/24/2021 6:54:01 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 10:30:00 PM	60823
Surr: BFB	89.4	70-130		%Rec	1	6/27/2021 10:30:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 10:30:00 PM	60823
Toluene	ND	0.047		mg/Kg	1	6/27/2021 10:30:00 PM	60823
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 10:30:00 PM	60823
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 10:30:00 PM	60823
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	6/27/2021 10:30:00 PM	60823

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

Qualifiers:

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

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ S-2
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 11:38:00 AM
Lab ID: 2106A71-010 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	6/25/2021 6:52:21 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/24/2021 7:18:38 PM	60867
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2021 7:18:38 PM	60867
Surr: DNOP	81.2	70-130		%Rec	1	6/24/2021 7:18:38 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 10:49:00 PM	60823
Surr: BFB	88.0	70-130		%Rec	1	6/27/2021 10:49:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 10:49:00 PM	60823
Toluene	ND	0.047		mg/Kg	1	6/27/2021 10:49:00 PM	60823
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 10:49:00 PM	60823
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 10:49:00 PM	60823
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	6/27/2021 10:49:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ S-3
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 11:43:00 AM
Lab ID: 2106A71-011 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	61		mg/Kg	20	6/25/2021 7:04:46 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/24/2021 7:43:07 PM	60867
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2021 7:43:07 PM	60867
Surr: DNOP	81.1	70-130		%Rec	1	6/24/2021 7:43:07 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 11:09:00 PM	60823
Surr: BFB	93.1	70-130		%Rec	1	6/27/2021 11:09:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	6/27/2021 11:09:00 PM	60823
Toluene	ND	0.047		mg/Kg	1	6/27/2021 11:09:00 PM	60823
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 11:09:00 PM	60823
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 11:09:00 PM	60823
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	6/27/2021 11:09:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ S-4
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 11:58:00 AM
Lab ID: 2106A71-012 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	6/25/2021 7:17:10 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/24/2021 8:07:37 PM	60867
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2021 8:07:37 PM	60867
Surr: DNOP	80.6	70-130		%Rec	1	6/24/2021 8:07:37 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 11:29:00 PM	60823
Surr: BFB	92.5	70-130		%Rec	1	6/27/2021 11:29:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	6/27/2021 11:29:00 PM	60823
Toluene	ND	0.046		mg/Kg	1	6/27/2021 11:29:00 PM	60823
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 11:29:00 PM	60823
Xylenes, Total	ND	0.092		mg/Kg	1	6/27/2021 11:29:00 PM	60823
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	6/27/2021 11:29:00 PM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 VZ S-1
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 12:13:00 PM
Lab ID: 2106A71-013 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Fluoride	ND	1.5		mg/Kg	5	6/28/2021 2:01:08 PM	60959
Chloride	ND	7.5		mg/Kg	5	6/28/2021 2:01:08 PM	60959
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	6/28/2021 2:01:08 PM	60959
Bromide	ND	1.5		mg/Kg	5	6/28/2021 2:01:08 PM	60959
Nitrogen, Nitrate (As N)	11	1.5		mg/Kg	5	6/28/2021 2:01:08 PM	60959
Sulfate	11	7.5		mg/Kg	5	6/28/2021 2:01:08 PM	60959
EPA METHOD 7471: MERCURY						Analyst: **ags**	
Mercury	ND	0.033		mg/Kg	1	6/29/2021 5:01:30 PM	60970
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**	
Arsenic	ND	4.8		mg/Kg	2	6/24/2021 4:18:17 PM	60877
Barium	110	0.19		mg/Kg	2	6/24/2021 12:54:25 PM	60877
Cadmium	ND	0.19		mg/Kg	2	6/24/2021 12:54:25 PM	60877
Calcium	2700	48		mg/Kg	2	6/24/2021 12:54:25 PM	60877
Chromium	12	0.58		mg/Kg	2	6/24/2021 12:54:25 PM	60877
Lead	5.2	0.58		mg/Kg	2	6/25/2021 4:42:51 PM	60877
Magnesium	2100	48		mg/Kg	2	6/24/2021 12:54:25 PM	60877
Potassium	1700	96		mg/Kg	2	6/24/2021 12:54:25 PM	60877
Selenium	ND	4.8		mg/Kg	2	6/24/2021 12:54:25 PM	60877
Silver	ND	0.48		mg/Kg	2	6/24/2021 12:54:25 PM	60877
Sodium	91	48		mg/Kg	2	6/24/2021 12:54:25 PM	60877
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/24/2021 8:32:01 PM	60867
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2021 8:32:01 PM	60867
Surr: DNOP	81.8	70-130		%Rec	1	6/24/2021 8:32:01 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 11:49:00 PM	60823
Surr: BFB	90.3	70-130		%Rec	1	6/27/2021 11:49:00 PM	60823
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	6/27/2021 11:49:00 PM	60823
Toluene	ND	0.047		mg/Kg	1	6/27/2021 11:49:00 PM	60823
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 11:49:00 PM	60823
Xylenes, Total	ND	0.094		mg/Kg	1	6/27/2021 11:49:00 PM	60823
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	6/27/2021 11:49:00 PM	60823

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

Qualifiers:

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

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 VZ S-2
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 12:22:00 PM
Lab ID: 2106A71-014 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	6/25/2021 7:29:34 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	6/24/2021 8:56:36 PM	60867
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	6/24/2021 8:56:36 PM	60867
Surr: DNOP	84.3	70-130		%Rec	1	6/24/2021 8:56:36 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/28/2021 12:09:00 AM	60823
Surr: BFB	96.5	70-130		%Rec	1	6/28/2021 12:09:00 AM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	6/28/2021 12:09:00 AM	60823
Toluene	ND	0.046		mg/Kg	1	6/28/2021 12:09:00 AM	60823
Ethylbenzene	ND	0.046		mg/Kg	1	6/28/2021 12:09:00 AM	60823
Xylenes, Total	ND	0.092		mg/Kg	1	6/28/2021 12:09:00 AM	60823
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	6/28/2021 12:09:00 AM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 VZ S-3
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 12:33:00 PM
Lab ID: 2106A71-015 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	59		mg/Kg	20	6/25/2021 7:41:59 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/24/2021 9:21:02 PM	60867
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/24/2021 9:21:02 PM	60867
Surr: DNOP	83.2	70-130		%Rec	1	6/24/2021 9:21:02 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/28/2021 12:29:00 AM	60823
Surr: BFB	92.2	70-130		%Rec	1	6/28/2021 12:29:00 AM	60823
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	6/28/2021 12:29:00 AM	60823
Toluene	ND	0.047		mg/Kg	1	6/28/2021 12:29:00 AM	60823
Ethylbenzene	ND	0.047		mg/Kg	1	6/28/2021 12:29:00 AM	60823
Xylenes, Total	ND	0.094		mg/Kg	1	6/28/2021 12:29:00 AM	60823
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	6/28/2021 12:29:00 AM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

Analytical Report
Lab Order **2106A71**
Date Reported: **7/6/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 VZ S-4
Project: BMG LandFarm VZ Soil Samples
Collection Date: 6/16/2021 12:44:00 PM
Lab ID: 2106A71-016 **Matrix:** SOIL
Received Date: 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	6/25/2021 7:54:24 PM	60930
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/24/2021 9:45:41 PM	60867
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2021 9:45:41 PM	60867
Surr: DNOP	84.3	70-130		%Rec	1	6/24/2021 9:45:41 PM	60867
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/28/2021 12:49:00 AM	60823
Surr: BFB	88.1	70-130		%Rec	1	6/28/2021 12:49:00 AM	60823
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	6/28/2021 12:49:00 AM	60823
Toluene	ND	0.048		mg/Kg	1	6/28/2021 12:49:00 AM	60823
Ethylbenzene	ND	0.048		mg/Kg	1	6/28/2021 12:49:00 AM	60823
Xylenes, Total	ND	0.096		mg/Kg	1	6/28/2021 12:49:00 AM	60823
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	6/28/2021 12:49:00 AM	60823

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	Value above quantitation range
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 range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A71**
06-Jul-21

Client: Animas Environmental Services
Project: BMG LandFarm VZ Soil Samples

Sample ID: **MB-60930**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60930**	RunNo: **79369**							
Prep Date: **6/25/2021**	Analysis Date: **6/25/2021**	SeqNo: **2789672**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60930**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60930**	RunNo: **79369**							
Prep Date: **6/25/2021**	Analysis Date: **6/25/2021**	SeqNo: **2789673**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Sample ID: **MB-60959**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60959**	RunNo: **79432**							
Prep Date: **6/28/2021**	Analysis Date: **6/28/2021**	SeqNo: **2792330**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrite (As N)	ND	0.30								
Bromide	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								
Sulfate	ND	1.5								

Sample ID: **LCS-60959**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60959**	RunNo: **79432**							
Prep Date: **6/28/2021**	Analysis Date: **6/28/2021**	SeqNo: **2792332**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.30	1.500	0	91.1	90	110			
Chloride	14	1.5	15.00	0	94.2	90	110			
Nitrogen, Nitrite (As N)	2.9	0.30	3.000	0	95.1	90	110			
Bromide	7.2	0.30	7.500	0	96.3	90	110			
Nitrogen, Nitrate (As N)	7.4	0.30	7.500	0	98.1	90	110			
Sulfate	29	1.5	30.00	0	95.7	90	110			

Sample ID: **2106A71-001AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **Cell #1 VZ S-1**	Batch ID: **60959**	RunNo: **79432**							
Prep Date: **6/28/2021**	Analysis Date: **6/28/2021**	SeqNo: **2792339**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	47	7.5	15.00	32.40	99.3	36.7	168			
Nitrogen, Nitrite (As N)	2.9	1.5	3.000	0	97.3	85.9	104			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A71**
06-Jul-21

Client: Animas Environmental Services
Project: BMG LandFarm VZ Soil Samples

Sample ID: **2106A71-001AMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**
Client ID: **Cell #1 VZ S-1** Batch ID: **60959** RunNo: **79432**
Prep Date: **6/28/2021** Analysis Date: **6/28/2021** SeqNo: **2792339** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	7.7	1.5	7.500	0	103	84.1	107			
Nitrogen, Nitrate (As N)	18	1.5	7.500	10.78	101	64.4	122			
Sulfate	48	7.5	30.00	18.69	98.0	42.2	138			

Sample ID: **2106A71-001AMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**
Client ID: **Cell #1 VZ S-1** Batch ID: **60959** RunNo: **79432**
Prep Date: **6/28/2021** Analysis Date: **6/28/2021** SeqNo: **2792340** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	47	7.5	15.00	32.40	95.9	36.7	168	1.07	20	
Nitrogen, Nitrite (As N)	2.8	1.5	3.000	0	93.4	85.9	104	4.06	20	
Bromide	7.4	1.5	7.500	0	99.3	84.1	107	3.46	20	
Nitrogen, Nitrate (As N)	18	1.5	7.500	10.78	98.1	64.4	122	1.07	20	
Sulfate	47	7.5	30.00	18.69	93.1	42.2	138	3.10	20	

Sample ID: **2106A71-005AMS** SampType: **MS** TestCode: **EPA Method 300.0: Anions**
Client ID: **Cell #2 VZ S-1** Batch ID: **60959** RunNo: **79432**
Prep Date: **6/28/2021** Analysis Date: **6/28/2021** SeqNo: **2792346** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	42	7.5	15.00	28.62	91.2	36.7	168			
Nitrogen, Nitrite (As N)	2.9	1.5	3.000	0	95.8	85.9	104			
Bromide	7.4	1.5	7.500	0	98.0	84.1	107			
Nitrogen, Nitrate (As N)	10	1.5	7.500	3.006	93.0	64.4	122			
Sulfate	140	7.5	30.00	118.3	84.9	42.2	138			

Sample ID: **2106A71-005AMSD** SampType: **MSD** TestCode: **EPA Method 300.0: Anions**
Client ID: **Cell #2 VZ S-1** Batch ID: **60959** RunNo: **79432**
Prep Date: **6/28/2021** Analysis Date: **6/28/2021** SeqNo: **2792347** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	41	7.5	15.00	28.62	81.9	36.7	168	3.34	20	
Nitrogen, Nitrite (As N)	2.8	1.5	3.000	0	94.2	85.9	104	1.71	20	
Bromide	7.3	1.5	7.500	0	97.7	84.1	107	0.358	20	
Nitrogen, Nitrate (As N)	9.8	1.5	7.500	3.006	90.8	64.4	122	1.62	20	
Sulfate	140	7.5	30.00	118.3	73.6	42.2	138	2.39	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A71**
06-Jul-21

Client: Animas Environmental Services
Project: BMG LandFarm VZ Soil Samples

Sample ID: **LCS-60867** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60867** RunNo: **79325**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2787407** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	141			
Surr: DNOP	4.3		5.000		85.6	70	130			

Sample ID: **MB-60867** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60867** RunNo: **79325**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2787409** 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	8.7		10.00		86.7	70	130			

Sample ID: **2106A71-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Cell #1 VZ S-1** Batch ID: **60867** RunNo: **79325**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2787424** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.2	46.04	0	87.1	15	184			
Surr: DNOP	3.7		4.604		81.2	70	130			

Sample ID: **2106A71-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Cell #1 VZ S-1** Batch ID: **60867** RunNo: **79325**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2787425** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	49.90	0	89.4	15	184	10.6	23.9	
Surr: DNOP	4.0		4.990		81.1	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A71**
06-Jul-21

Client: Animas Environmental Services
Project: BMG LandFarm VZ Soil Samples

Sample ID: **mb-60823**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **60823**	RunNo: **79409**
Prep Date: **6/22/2021**	Analysis Date: **6/27/2021**	SeqNo: **2791287** 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	940		1000		94.1	70	130			

Sample ID: **lcs-60823**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **60823**	RunNo: **79409**
Prep Date: **6/22/2021**	Analysis Date: **6/27/2021**	SeqNo: **2791289** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1100		1000		109	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A71**
06-Jul-21

Client: Animas Environmental Services
Project: BMG LandFarm VZ Soil Samples

Sample ID: **mb-60823**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **60823**	RunNo: **79409**
Prep Date: **6/22/2021**	Analysis Date: **6/27/2021**	SeqNo: **2791398** 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	0.95		1.000		95.0	70	130			

Sample ID: **lcs-60823**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **60823**	RunNo: **79409**
Prep Date: **6/22/2021**	Analysis Date: **6/27/2021**	SeqNo: **2791400** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.6	80	120			
Toluene	0.95	0.050	1.000	0	95.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.3	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A71**
06-Jul-21

Client: Animas Environmental Services
Project: BMG LandFarm VZ Soil Samples

Sample ID: **MB-60970**	SampType: **MBLK**	TestCode: **EPA Method 7471: Mercury**							
Client ID: **PBS**	Batch ID: **60970**	RunNo: **79466**							
Prep Date: **6/28/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793579**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID: **LLLCS-60970**	SampType: **LCSLL**	TestCode: **EPA Method 7471: Mercury**							
Client ID: **BatchQC**	Batch ID: **60970**	RunNo: **79466**							
Prep Date: **6/28/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793580**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	88.5	70	130			

Sample ID: **LCS-60970**	SampType: **LCS**	TestCode: **EPA Method 7471: Mercury**							
Client ID: **LCSS**	Batch ID: **60970**	RunNo: **79466**							
Prep Date: **6/28/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793581**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	103	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A71**
06-Jul-21

Client: Animas Environmental Services
Project: BMG LandFarm VZ Soil Samples

Sample ID: **LCS-60877** SampType: **LCS** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS** Batch ID: **60877** RunNo: **79338**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2787050** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	24	0.10	25.00	0	97.9	80	120			
Cadmium	24	0.10	25.00	0	95.6	80	120			
Calcium	2300	25	2500	0	91.3	80	120			
Chromium	25	0.30	25.00	0	98.2	80	120			
Magnesium	2300	25	2500	0	90.6	80	120			
Potassium	2200	50	2500	0	89.3	80	120			
Selenium	22	2.5	25.00	0	90.0	80	120			
Silver	4.8	0.25	5.000	0	95.8	80	120			
Sodium	2200	25	2500	0	90.0	80	120			

Sample ID: **MB-60877** SampType: **MBLK** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS** Batch ID: **60877** RunNo: **79338**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2787061** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.10								
Cadmium	ND	0.10								
Calcium	ND	25								
Chromium	ND	0.30								
Magnesium	ND	25								
Potassium	ND	50								
Selenium	ND	2.5								
Silver	ND	0.25								
Sodium	ND	25								

Sample ID: **LCS-60877** SampType: **LCS** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS** Batch ID: **60877** RunNo: **79338**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2787307** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	24	2.5	25.00	0	96.2	80	120			

Sample ID: **MB-60877** SampType: **MBLK** TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS** Batch ID: **60877** RunNo: **79338**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2787313** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A71**
06-Jul-21

Client: Animas Environmental Services
Project: BMG LandFarm VZ Soil Samples

Sample ID: **MB-60877**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS**	Batch ID: **60877**	RunNo: **79377**
Prep Date: **6/23/2021**	Analysis Date: **6/25/2021**	SeqNo: **2789022** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.30								

Sample ID: **LCS-60877**	SampType: **LCS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS**	Batch ID: **60877**	RunNo: **79377**
Prep Date: **6/23/2021**	Analysis Date: **6/25/2021**	SeqNo: **2789024** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	26	0.30	25.00	0	103	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 range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental Services** Work Order Number: **2106A71** RcptNo: 1

Received By: **Desiree Dominguez** **6/19/2021 8:40:00 AM**

Completed By: **Cheyenne Cason** **6/21/2021 8:23:57 AM**

Reviewed By: SPA 6.21.21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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: TC. 6.21.21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good				

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: P.O. Box 8
Farmington NM 87499-0008

Phone #: 505.564.2281

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 VZ soil samples

Project #: AES 040605

Project Manager: Angela Ledgerwood
Elizabeth McNally

Sampler: AL/GB

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.4+0.3=1.7 (°C)

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. 2106A71	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals (6010/7471)	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TPH 1ar	Chlorides via Method 300.0	Major Cations/Anions via Method 300.0			
6-16-21	10:10	Soil	Cell #1 VZ S-1	2-4oz jars 1-1gal ziplock bag	3-cool	001	X	X				X						X	X			
	10:19	Soil	Cell #1 VZ S-2	1-4oz jar	1-cool	002	X	X										X				
	10:29	Soil	Cell #1 VZ S-3	1-4oz jar	1-cool	003	X	X										X				
	10:39	Soil	Cell #1 VZ S-4	1-4oz jar	1-cool	004	X	X										X				
	10:50	Soil	Cell #2 VZ S-1	2-4oz jars 1-1gal ziplock bags	3-Cool	005	X	X				X						X	X			
	10:58	Soil	Cell #2 VZ S-2	1-4oz jar	1-Cool	006	X	X										X				
	11:08	Soil	Cell #2 VZ S-3	1-4oz jar	1-Cool	007	X	X										X				
	11:18	Soil	Cell #2 VZ S-4	1-4oz jar	1-Cool	008	X	X										X				
	11:30	Soil	Cell #3 VZ S-1	2-4oz jars 1-1gal ziplock bag	3-Cool	009	X	X				X						X	X			
	11:38	Soil	Cell #3 VZ S-2	1-4oz jar	1-Cool	010	X	X										X				
	11:42	Soil	Cell #3 VZ S-3	1-4oz jar	1-Cool	011	X	X										X				
↓	11:58	Soil	Cell #3 VZ S-4	1-4oz jar	1-Cool	012	X	X										X				

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/18	1200				6/18	1200
6/18	1410	Natasha Deal		Courier	6.19.21	8:40

Remarks: Please direct-bill this project to BMG.
RCRA 8 Metals: As, Ba, Cd, Cr, Pb, Hg, Sg & Ag.

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: P.O. Box 8
Farmington NM 87499 - 0008

Phone #: 505.564.2281

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 - VZ Soil Samples

Project #: AES 040605

Project Manager: Angela Ledgerwood
Elizabeth McNally

Sampler: CL/GB

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(including CF): (°C)

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. Z106A71	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals (6010/7471)	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride via Method 300.0	Major Cations/Anions via Method 300.0
6-16-21	12:13	Soil	Cell #4 VZ S-1	2-4oz jars 1-ziplock bag	3-cool	013	X	X				X					X	X
	12:22	Soil	Cell #4 VZ S-2	1-4oz jar	1-cool	014	X	X									X	
	12:33	Soil	Cell #4 VZ S-3	1-4oz jar	1-cool	015	X	X									X	
	12:44	Soil	Cell #4 VZ S-4	1-4oz jar	1-cool	016	X	X									X	

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/18	1200				6/18/21	1200
6/18	1400			courier	6.19.21	8:40

Remarks: Please direct-bill this project to BMG.

RCRA 8 Metals: As, Ba, Cd, Cr, Pb, Hg, Se & Ag

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: clients.hallenvironmental.com

November 16, 2021

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

RE: BMG Landfarm MWs and Interstitial Well OrderNo.: 2110D06

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/28/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2110D06**
Date Reported: **11/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** MW-1
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 10/26/2021 12:40:00 PM
Lab ID: 2110D06-001 **Matrix:** GROUNDWA **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/1/2021 12:12:11 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/1/2021 12:12:11 PM
Surr: DNOP	102	64.8-167		%Rec	1	11/1/2021 12:12:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/1/2021 11:52:00 PM
Surr: BFB	95.3	68.5-136		%Rec	1	11/1/2021 11:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	11/2/2021 10:52:02 AM
Toluene	ND	1.0		µg/L	1	11/2/2021 10:52:02 AM
Ethylbenzene	ND	1.0		µg/L	1	11/2/2021 10:52:02 AM
Xylenes, Total	ND	2.0		µg/L	1	11/2/2021 10:52:02 AM
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	11/2/2021 10:52:02 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	34	2.5		mg/L	5	10/28/2021 4:54:38 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	640	40.0	*D	mg/L	1	11/4/2021 7:52:00 AM

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	Value above quantitation range
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 range due to dilution or matrix interference		

Analytical Report
Lab Order **2110D06**
Date Reported: **11/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** MW-2
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 10/26/2021 12:29:00 PM
Lab ID: 2110D06-002 **Matrix:** GROUNDWA **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/1/2021 12:36:11 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/1/2021 12:36:11 PM
Surr: DNOP	109	64.8-167		%Rec	1	11/1/2021 12:36:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/2/2021 12:12:00 AM
Surr: BFB	99.5	68.5-136		%Rec	1	11/2/2021 12:12:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **mb**
Benzene	ND	1.0		µg/L	1	11/2/2021 12:12:00 AM
Toluene	ND	1.0		µg/L	1	11/2/2021 12:12:00 AM
Ethylbenzene	ND	1.0		µg/L	1	11/2/2021 12:12:00 AM
Xylenes, Total	ND	2.0		µg/L	1	11/2/2021 12:12:00 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/2/2021 12:12:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	220	10		mg/L	20	10/28/2021 5:31:42 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	910	200	*D	mg/L	1	11/4/2021 7:52:00 AM

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	Value above quantitation range
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 range due to dilution or matrix interference		

Analytical Report
Lab Order **2110D06**
Date Reported: **11/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** MW-3
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 10/26/2021 12:10:00 PM
Lab ID: 2110D06-003 **Matrix:** GROUNDWA **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/1/2021 1:00:13 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/1/2021 1:00:13 PM
Surr: DNOP	102	64.8-167		%Rec	1	11/1/2021 1:00:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/2/2021 12:31:00 AM
Surr: BFB	98.2	68.5-136		%Rec	1	11/2/2021 12:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **mb**
Benzene	ND	1.0		µg/L	1	11/2/2021 12:31:00 AM
Toluene	ND	1.0		µg/L	1	11/2/2021 12:31:00 AM
Ethylbenzene	ND	1.0		µg/L	1	11/2/2021 12:31:00 AM
Xylenes, Total	ND	2.0		µg/L	1	11/2/2021 12:31:00 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/2/2021 12:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	270	10	*	mg/L	20	10/28/2021 6:21:08 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1100	200	*D	mg/L	1	11/4/2021 7:52:00 AM

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	Value above quantitation range
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 range due to dilution or matrix interference		

Analytical Report
Lab Order **2110D06**
Date Reported: **11/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** MW-4
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 10/26/2021 11:41:00 AM
Lab ID: 2110D06-004 **Matrix:** GROUNDWA **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/1/2021 1:24:20 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/1/2021 1:24:20 PM
Surr: DNOP	107	64.8-167		%Rec	1	11/1/2021 1:24:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/2/2021 3:06:00 AM
Surr: BFB	92.2	68.5-136		%Rec	1	11/2/2021 3:06:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **mb**
Benzene	ND	1.0		µg/L	1	11/2/2021 3:06:00 AM
Toluene	ND	1.0		µg/L	1	11/2/2021 3:06:00 AM
Ethylbenzene	ND	1.0		µg/L	1	11/2/2021 3:06:00 AM
Xylenes, Total	ND	2.0		µg/L	1	11/2/2021 3:06:00 AM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	11/2/2021 3:06:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	65	2.5		mg/L	5	10/28/2021 6:33:28 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	830	200	*D	mg/L	1	11/4/2021 7:52:00 AM

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	Value above quantitation range
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 range due to dilution or matrix interference		

Analytical Report
Lab Order **2110D06**
Date Reported: **11/16/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** Evaporation Pond
Project: BMG Landfarm MWs and Interstitial We **Collection Date:** 10/26/2021 10:59:00 AM
Lab ID: 2110D06-005 **Matrix:** GROUNDWA **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	1.0	1.0		mg/L	1	11/1/2021 1:48:30 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/1/2021 1:48:30 PM
Surr: DNOP	87.3	64.8-167		%Rec	1	11/1/2021 1:48:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**
Gasoline Range Organics (GRO)	1.2	0.050		mg/L	1	11/2/2021 3:26:00 AM
Surr: BFB	105	68.5-136		%Rec	1	11/2/2021 3:26:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **mb**
Benzene	180	10		µg/L	10	11/2/2021 1:35:00 PM
Toluene	180	10		µg/L	10	11/2/2021 1:35:00 PM
Ethylbenzene	12	1.0		µg/L	1	11/2/2021 3:26:00 AM
Xylenes, Total	75	2.0		µg/L	1	11/2/2021 3:26:00 AM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	11/2/2021 3:26:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	120000	10000	*	mg/L	20000	11/11/2021 12:39:52 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	218000	2000	*D	mg/L	1	11/4/2021 7:52:00 AM

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	Value above quantitation range
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 range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D06**
16-Nov-21

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

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R82444**	RunNo: **82444**
Prep Date:	Analysis Date: **10/28/2021**	SeqNo: **2925423** 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: **R82444**	RunNo: **82444**
Prep Date:	Analysis Date: **10/28/2021**	SeqNo: **2925424** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.1	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A82766**	RunNo: **82766**
Prep Date:	Analysis Date: **11/11/2021**	SeqNo: **2938522** 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: **A82766**	RunNo: **82766**
Prep Date:	Analysis Date: **11/11/2021**	SeqNo: **2938525** 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	95.0	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D06**
16-Nov-21

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

Sample ID: **MB-63653**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **63653**	RunNo: **82480**
Prep Date: **10/29/2021**	Analysis Date: **11/1/2021**	SeqNo: **2927066** 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	0.53		0.5000		106	64.8	167			

Sample ID: **LCS-63653**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **63653**	RunNo: **82480**
Prep Date: **10/29/2021**	Analysis Date: **11/1/2021**	SeqNo: **2927067** 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	99.4	73	138			
Surr: DNOP	0.23		0.2500		93.5	64.8	167			

Sample ID: **2110D06-001BMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-1**	Batch ID: **63653**	RunNo: **82480**
Prep Date: **10/29/2021**	Analysis Date: **11/1/2021**	SeqNo: **2928301** 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	99.0	64.7	146			
Surr: DNOP	0.26		0.2500		106	64.8	167			

Sample ID: **2110D06-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-1**	Batch ID: **63653**	RunNo: **82480**
Prep Date: **10/29/2021**	Analysis Date: **11/1/2021**	SeqNo: **2928302** 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	97.2	64.7	146	1.85	20	
Surr: DNOP	0.25		0.2500		100	64.8	167	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D06**
16-Nov-21

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

Sample ID: **mb-water**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927266** 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	19		20.00		97.5	68.5	136			

Sample ID: **mb-water**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927267** 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		98.8	68.5	136			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927269** 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	80	120			
Surr: BFB	22		20.00		112	68.5	136			

Sample ID: **2110D06-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/2/2021**	SeqNo: **2927270** 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	88.0	67.3	116			
Surr: BFB	21		20.00		106	68.5	136			

Sample ID: **2110D06-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-1**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/2/2021**	SeqNo: **2927271** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.43	0.050	0.5000	0	86.8	67.3	116	1.42	20	
Surr: BFB	20		20.00		102	68.5	136	0	0	

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927407** 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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D06**
16-Nov-21

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

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **R82491**	RunNo: **82491**							
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927407**	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	101	80	120			
Surr: BFB	23		20.00		116	68.5	136			

Sample ID: **mb-water**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **R82500**	RunNo: **82500**							
Prep Date:	Analysis Date: **11/2/2021**	SeqNo: **2929076**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	21		20.00		106	68.5	136			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D06**
16-Nov-21

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

Sample ID: **mb-water**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927303** 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	70	130			

Sample ID: **mb-water**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927304** 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		105	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927305** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.8	80	120			
Toluene	19	1.0	20.00	0	95.0	80	120			
Ethylbenzene	20	1.0	20.00	0	97.7	80	120			
Xylenes, Total	59	2.0	60.00	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		105	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/1/2021**	SeqNo: **2927306** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.9	80	120			
Toluene	19	1.0	20.00	0	97.0	80	120			
Ethylbenzene	20	1.0	20.00	0	98.4	80	120			
Xylenes, Total	58	2.0	60.00	0	97.0	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		99.1	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D06**
16-Nov-21

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

Sample ID: **2110D06-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/2/2021**	SeqNo: **2927307** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.1	80	120			
Toluene	20	1.0	20.00	0.8908	95.9	80	120			
Ethylbenzene	20	1.0	20.00	0	99.9	80	120			
Xylenes, Total	61	2.0	60.00	1.639	98.8	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		101	70	130			

Sample ID: **2110D06-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R82491**	RunNo: **82491**
Prep Date:	Analysis Date: **11/2/2021**	SeqNo: **2927308** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.7	80	120	5.84	20	
Toluene	19	1.0	20.00	0.8908	91.9	80	120	4.07	20	
Ethylbenzene	19	1.0	20.00	0	96.8	80	120	3.19	20	
Xylenes, Total	59	2.0	60.00	1.639	95.6	80	120	3.22	20	
Surr: 4-Bromofluorobenzene	20		20.00		99.1	70	130	0	0	

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B82524**	RunNo: **82524**
Prep Date:	Analysis Date: **11/2/2021**	SeqNo: **2928737** 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	20		20.00		99.1	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B82524**	RunNo: **82524**
Prep Date:	Analysis Date: **11/2/2021**	SeqNo: **2928738** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.3	80	120			
Toluene	19	1.0	20.00	0	93.2	80	120			
Ethylbenzene	19	1.0	20.00	0	93.9	80	120			
Xylenes, Total	56	2.0	60.00	0	93.9	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		102	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D06**
16-Nov-21

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

Sample ID: **mb-water**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R82500**	RunNo: **82500**
Prep Date:	Analysis Date: **11/2/2021**	SeqNo: **2929077** 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								
Surr: 4-Bromofluorobenzene	22		20.00		108	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D06**
16-Nov-21

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

Sample ID: **MB-63696**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **63696**	RunNo: **82569**
Prep Date: **11/2/2021**	Analysis Date: **11/4/2021**	SeqNo: **2930350** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-63696**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **63696**	RunNo: **82569**
Prep Date: **11/2/2021**	Analysis Date: **11/4/2021**	SeqNo: **2930351** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2110D06 | RcptNo: 1

Received By: Cheyenne Cason 10/28/2021 7:00:00 AM

Completed By: Sean Livingston 10/28/2021 9:31:15 AM

Reviewed By: JR 10/28/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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: KRA 10/28/21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks: Did not recieve trip Blank

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good				
2	0.9	Good				

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: P.O. Box 8
Farmington, NM 87499-0008

Phone #: 720-537-6650

email or Fax#: aledgerwood@animasenvironmental.com

QA/QC Package:
☒ 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

# of Coolers: 2 1.6 -0 = 1.6

Cooler Temp(including CF): 0.4 -0 = 0.4

HALL ENVIRONMENT ANALYSIS LABORATC
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. 2110D06	BTEX via Method 8021	TPH GRO / DRO / MRO via EPA8015M/D	Chlorides via EPA300.0	Total Dissolved Solids via SM2540C	Analysis Request
10-26-21	12:40	GW	MW-1	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	001	x	x	x	x	
	12:29	GW	MW-2	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	002	x	x	x	x	
	12:10	GW	MW-3	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	003	x	x	x	x	
	11:41	GW	MW-4	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	004	x	x	x	x	
		GW	~~Interstitial Well~~	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non		~~x~~	~~x~~	~~x~~	~~x~~	a
10-26-21	10:56	SW	Evaporation Pond	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	005	x	x	x	x	
		W	~~Trip Blank~~		Cold	006	x		Old	not recieve	TB

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/27/21	1710				10/27/21	1710
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/27/21	1753			COC COURIER	10/28/21	0700

Remarks:

Please direct-bill this project to BMG.

Call w/ questions.

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: clients.hallenvironmental.com

November 10, 2021

Angela Ledgerwood

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

RE: BMG Landfarm VZ soil samples OrderNo.: 2110D09

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/28/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2110D09**
Date Reported: **11/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ S-1
Project: BMG Landfarm VZ soil samples
Collection Date: 10/26/2021 9:14:00 AM
Lab ID: 2110D09-001 **Matrix:** SOIL **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	50	9.6		mg/Kg	1	11/2/2021 3:03:50 PM	63679
Motor Oil Range Organics (MRO)	59	48		mg/Kg	1	11/2/2021 3:03:50 PM	63679
Surr: DNOP	105	70-130		%Rec	1	11/2/2021 3:03:50 PM	63679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 5:19:00 PM	63638
Surr: BFB	95.9	70-130		%Rec	1	10/29/2021 5:19:00 PM	63638
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/29/2021 5:19:00 PM	63638
Toluene	ND	0.047		mg/Kg	1	10/29/2021 5:19:00 PM	63638
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 5:19:00 PM	63638
Xylenes, Total	ND	0.095		mg/Kg	1	10/29/2021 5:19:00 PM	63638
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/29/2021 5:19:00 PM	63638

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	Value above quantitation range
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 range due to dilution or matrix interference		

Analytical Report
Lab Order **2110D09**
Date Reported: **11/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ S-2
Project: BMG Landfarm VZ soil samples
Collection Date: 10/26/2021 9:28:00 AM
Lab ID: 2110D09-002 **Matrix:** SOIL **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	200	96		mg/Kg	10	11/2/2021 3:37:03 PM	63679
Motor Oil Range Organics (MRO)	550	480		mg/Kg	10	11/2/2021 3:37:03 PM	63679
Surr: DNOP	0	70-130	S	%Rec	10	11/2/2021 3:37:03 PM	63679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/29/2021 6:18:00 PM	63638
Surr: BFB	96.5	70-130		%Rec	1	10/29/2021 6:18:00 PM	63638
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	10/29/2021 6:18:00 PM	63638
Toluene	ND	0.050		mg/Kg	1	10/29/2021 6:18:00 PM	63638
Ethylbenzene	ND	0.050		mg/Kg	1	10/29/2021 6:18:00 PM	63638
Xylenes, Total	ND	0.10		mg/Kg	1	10/29/2021 6:18:00 PM	63638
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	10/29/2021 6:18:00 PM	63638

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	Value above quantitation range
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 range due to dilution or matrix interference		

Analytical Report
Lab Order **2110D09**
Date Reported: **11/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ S-3
Project: BMG Landfarm VZ soil samples
Collection Date: 10/26/2021 9:39:00 AM
Lab ID: 2110D09-003 **Matrix:** SOIL **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	190	9.7		mg/Kg	1	11/3/2021 4:09:37 PM	63679
Motor Oil Range Organics (MRO)	330	49		mg/Kg	1	11/3/2021 4:09:37 PM	63679
Surr: DNOP	121	70-130		%Rec	1	11/3/2021 4:09:37 PM	63679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/29/2021 6:37:00 PM	63638
Surr: BFB	89.5	70-130		%Rec	1	10/29/2021 6:37:00 PM	63638
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	10/29/2021 6:37:00 PM	63638
Toluene	ND	0.050		mg/Kg	1	10/29/2021 6:37:00 PM	63638
Ethylbenzene	ND	0.050		mg/Kg	1	10/29/2021 6:37:00 PM	63638
Xylenes, Total	ND	0.10		mg/Kg	1	10/29/2021 6:37:00 PM	63638
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	10/29/2021 6:37:00 PM	63638

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	Value above quantitation range
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 range due to dilution or matrix interference		

Analytical Report
Lab Order **2110D09**
Date Reported: **11/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 VZ S-4
Project: BMG Landfarm VZ soil samples
Collection Date: 10/26/2021 9:53:00 AM
Lab ID: 2110D09-004 **Matrix:** SOIL **Received Date:** 10/28/2021 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/2/2021 3:59:12 PM	63679
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/2/2021 3:59:12 PM	63679
Surr: DNOP	122	70-130		%Rec	1	11/2/2021 3:59:12 PM	63679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/29/2021 6:57:00 PM	63638
Surr: BFB	93.4	70-130		%Rec	1	10/29/2021 6:57:00 PM	63638
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/29/2021 6:57:00 PM	63638
Toluene	ND	0.048		mg/Kg	1	10/29/2021 6:57:00 PM	63638
Ethylbenzene	ND	0.048		mg/Kg	1	10/29/2021 6:57:00 PM	63638
Xylenes, Total	ND	0.097		mg/Kg	1	10/29/2021 6:57:00 PM	63638
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/29/2021 6:57:00 PM	63638

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	Value above quantitation range
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 range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D09**
10-Nov-21

Client: Animas Environmental Services
Project: BMG Landfarm VZ soil samples

Sample ID: **MB-63679**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63679**	RunNo: **82502**
Prep Date: **11/1/2021**	Analysis Date: **11/2/2021**	SeqNo: **2928393** 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	9.1		10.00		91.5	70	130			

Sample ID: **LCS-63679**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63679**	RunNo: **82502**
Prep Date: **11/1/2021**	Analysis Date: **11/2/2021**	SeqNo: **2928446** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	68.9	135			
Surr: DNOP	4.6		5.000		91.4	70	130			

Sample ID: **2110D09-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Cell #3 VZ S-1**	Batch ID: **63679**	RunNo: **82502**
Prep Date: **11/1/2021**	Analysis Date: **11/2/2021**	SeqNo: **2928645** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	88	8.9	44.64	50.31	84.7	39.3	155			
Surr: DNOP	4.3		4.464		96.6	70	130			

Sample ID: **2110D09-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Cell #3 VZ S-1**	Batch ID: **63679**	RunNo: **82502**
Prep Date: **11/1/2021**	Analysis Date: **11/2/2021**	SeqNo: **2928646** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	160	9.7	48.31	50.31	217	39.3	155	55.1	23.4	RS
Surr: DNOP	5.2		4.831		108	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D09**
10-Nov-21

Client: Animas Environmental Services
Project: BMG Landfarm VZ soil samples

Sample ID: **lcs-63638**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63638**	RunNo: **82466**
Prep Date: **10/28/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926036** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: **mb-63638**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **63638**	RunNo: **82466**
Prep Date: **10/28/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926037** 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	930		1000		93.0	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110D09**
10-Nov-21

Client: Animas Environmental Services
Project: BMG Landfarm VZ soil samples

Sample ID: **lcs-63638**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63638**	RunNo: **82466**
Prep Date: **10/28/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926083** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.97	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.5	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	70	130			

Sample ID: **mb-63638**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63638**	RunNo: **82466**
Prep Date: **10/28/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926084** 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	0.95		1.000		95.1	70	130			

Sample ID: **2110D09-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **Cell #3 VZ S-1**	Batch ID: **63638**	RunNo: **82466**
Prep Date: **10/28/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926087** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9497	0	101	80	120			
Toluene	0.98	0.047	0.9497	0	103	80	120			
Ethylbenzene	0.97	0.047	0.9497	0	102	80	120			
Xylenes, Total	2.9	0.095	2.849	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.96		0.9497		101	70	130			

Sample ID: **2110D09-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **Cell #3 VZ S-1**	Batch ID: **63638**	RunNo: **82466**
Prep Date: **10/28/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926088** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9443	0	96.3	80	120	4.89	20	
Toluene	0.96	0.047	0.9443	0	102	80	120	1.32	20	
Ethylbenzene	0.96	0.047	0.9443	0	102	80	120	0.247	20	
Xylenes, Total	2.9	0.094	2.833	0	101	80	120	1.27	20	
Surr: 4-Bromofluorobenzene	0.91		0.9443		96.2	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2110D09 | RcptNo: 1

Received By: Cheyenne Cason 10/28/2021 7:00:00 AM

Completed By: Isaiah Ortiz 10/28/2021 10:10:11 AM

Reviewed By: JN 10/28/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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: KPA 10/28/21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Not Present			

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 - VZ soil samples

Project #:
AES 040605

Project Manager:
Angela Ledgerwood
Elizabeth McNally

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.9 - 0 = 0.9

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. 2110D09	BTEX via Method 8021	TPH GRO / DRO / MRO via EPA 418.1
10-21-21	9:14	Soil	Cell #3 VZ S-1	2 - 4 oz jars	Cool	001	X	X
"	9:28	Soil	Cell #3 VZ S-2	2 - 4 oz jars	Cool	002	X	X
"	9:39	Soil	Cell #3 VZ S-3	2 - 4 oz jars	Cool	003	X	X
"	9:53	Soil	Cell #3 VZ S-4	2 - 4 oz jars	Cool	004	X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/27/21	1710				10/27/21	1710
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/27/21	1753		Chris Cousin		10/28/21	0700

Remarks:
Please direct-bill this project to BMG.
Call w/ questions.

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: clients.hallenvironmental.com

January 19, 2022

Elizabeth McNally

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

RE: BMG Landfarm OrderNo.: 2201306

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/8/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2201306**
Date Reported: **1/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-1
Project: BMG Landfarm **Collection Date:** 1/6/2022 11:53:00 AM
Lab ID: 2201306-001 **Matrix:** GROUNDWA **Received Date:** 1/8/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/11/2022 12:11:19 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/11/2022 12:11:19 PM
Surr: DNOP	91.5	64.8-167		%Rec	1	1/11/2022 12:11:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/10/2022 12:12:01 PM
Surr: BFB	93.1	68.5-136		%Rec	1	1/10/2022 12:12:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/10/2022 12:12:01 PM
Toluene	ND	1.0		µg/L	1	1/10/2022 12:12:01 PM
Ethylbenzene	ND	1.0		µg/L	1	1/10/2022 12:12:01 PM
Xylenes, Total	ND	2.0		µg/L	1	1/10/2022 12:12:01 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/10/2022 12:12:01 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	32	5.0		mg/L	10	1/10/2022 12:09:41 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	740	200	*D	mg/L	1	1/14/2022 11:28:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2201306**
Date Reported: **1/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-2
Project: BMG Landfarm **Collection Date:** 1/6/2022 1:59:00 PM
Lab ID: 2201306-002 **Matrix:** GROUNDWA **Received Date:** 1/8/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/11/2022 12:34:57 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/11/2022 12:34:57 PM
Surr: DNOP	102	64.8-167		%Rec	1	1/11/2022 12:34:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/10/2022 1:22:29 PM
Surr: BFB	93.7	68.5-136		%Rec	1	1/10/2022 1:22:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/10/2022 1:22:29 PM
Toluene	ND	1.0		µg/L	1	1/10/2022 1:22:29 PM
Ethylbenzene	ND	1.0		µg/L	1	1/10/2022 1:22:29 PM
Xylenes, Total	ND	2.0		µg/L	1	1/10/2022 1:22:29 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	1/10/2022 1:22:29 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	180	5.0		mg/L	10	1/10/2022 12:59:18 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	748	40.0	*D	mg/L	1	1/14/2022 11:28:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2201306**
Date Reported: **1/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-3
Project: BMG Landfarm **Collection Date:** 1/6/2022 1:25:00 PM
Lab ID: 2201306-003 **Matrix:** GROUNDWA **Received Date:** 1/8/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/11/2022 12:58:46 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/11/2022 12:58:46 PM
Surr: DNOP	105	64.8-167		%Rec	1	1/11/2022 12:58:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/10/2022 1:46:03 PM
Surr: BFB	91.3	68.5-136		%Rec	1	1/10/2022 1:46:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/10/2022 1:46:03 PM
Toluene	ND	1.0		µg/L	1	1/10/2022 1:46:03 PM
Ethylbenzene	ND	1.0		µg/L	1	1/10/2022 1:46:03 PM
Xylenes, Total	ND	2.0		µg/L	1	1/10/2022 1:46:03 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/10/2022 1:46:03 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	250	50		mg/L	100	1/10/2022 2:01:21 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1020	200	*D	mg/L	1	1/14/2022 11:28:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2201306**
Date Reported: **1/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** MW-4
Project: BMG Landfarm **Collection Date:** 1/6/2022 12:45:00 PM
Lab ID: 2201306-004 **Matrix:** GROUNDWA **Received Date:** 1/8/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/11/2022 1:22:36 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/11/2022 1:22:36 PM
Surr: DNOP	107	64.8-167		%Rec	1	1/11/2022 1:22:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/10/2022 2:09:36 PM
Surr: BFB	92.9	68.5-136		%Rec	1	1/10/2022 2:09:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/10/2022 2:09:36 PM
Toluene	ND	1.0		µg/L	1	1/10/2022 2:09:36 PM
Ethylbenzene	ND	1.0		µg/L	1	1/10/2022 2:09:36 PM
Xylenes, Total	ND	2.0		µg/L	1	1/10/2022 2:09:36 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/10/2022 2:09:36 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	62	5.0		mg/L	10	1/10/2022 2:13:45 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	775	100	*D	mg/L	1	1/14/2022 11:28:00 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2201306**
Date Reported: **1/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG Landfarm **Collection Date:**
Lab ID: 2201306-005 **Matrix:** TRIP BLANK **Received Date:** 1/8/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/10/2022 2:33:07 PM
Toluene	ND	1.0		µg/L	1	1/10/2022 2:33:07 PM
Ethylbenzene	ND	1.0		µg/L	1	1/10/2022 2:33:07 PM
Xylenes, Total	ND	2.0		µg/L	1	1/10/2022 2:33:07 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/10/2022 2:33:07 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	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 range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201306**
19-Jan-22

Client: Animas Environmental Services
Project: BMG Landfarm

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R85057**	RunNo: **85057**							
Prep Date:	Analysis Date: **1/10/2022**	SeqNo: **2992629**	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: **R85057**	RunNo: **85057**							
Prep Date:	Analysis Date: **1/10/2022**	SeqNo: **2992630**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.8	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201306**
19-Jan-22

Client: Animas Environmental Services
Project: BMG Landfarm

Sample ID: **MB-64930**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW**	Batch ID: **64930**	RunNo: **85070**
Prep Date: **1/10/2022**	Analysis Date: **1/11/2022**	SeqNo: **2993741** 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	0.54		0.5000		108	64.8	167			

Sample ID: **LCS-64930**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW**	Batch ID: **64930**	RunNo: **85070**
Prep Date: **1/10/2022**	Analysis Date: **1/11/2022**	SeqNo: **2993742** 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	90.4	73	138			
Surr: DNOP	0.25		0.2500		102	64.8	167			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	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#: **2201306**
19-Jan-22

Client: Animas Environmental Services
Project: BMG Landfarm

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **G85053**	RunNo: **85053**
Prep Date:	Analysis Date: **1/10/2022**	SeqNo: **2992440** 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	18		20.00		89.4	68.5	136			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **G85053**	RunNo: **85053**
Prep Date:	Analysis Date: **1/10/2022**	SeqNo: **2992441** 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	87.3	80	120			
Surr: BFB	20		20.00		102	68.5	136			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	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#: **2201306**
19-Jan-22

Client: Animas Environmental Services
Project: BMG Landfarm

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B85053**	RunNo: **85053**
Prep Date:	Analysis Date: **1/10/2022**	SeqNo: **2992459** 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		104	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B85053**	RunNo: **85053**
Prep Date:	Analysis Date: **1/10/2022**	SeqNo: **2992460** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	80	120			
Toluene	20	1.0	20.00	0	99.1	80	120			
Ethylbenzene	20	1.0	20.00	0	98.2	80	120			
Xylenes, Total	58	2.0	60.00	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	70	130			

Sample ID: **2201306-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1**	Batch ID: **B85053**	RunNo: **85053**
Prep Date:	Analysis Date: **1/10/2022**	SeqNo: **2992462** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.0	80	120			
Toluene	20	1.0	20.00	0	99.3	80	120			
Ethylbenzene	20	1.0	20.00	0	97.6	80	120			
Xylenes, Total	59	2.0	60.00	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	70	130			

Sample ID: **2201306-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1**	Batch ID: **B85053**	RunNo: **85053**
Prep Date:	Analysis Date: **1/10/2022**	SeqNo: **2992463** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.2	80	120	1.92	20	
Toluene	19	1.0	20.00	0	96.4	80	120	2.91	20	
Ethylbenzene	19	1.0	20.00	0	96.3	80	120	1.37	20	
Xylenes, Total	58	2.0	60.00	0	96.6	80	120	1.14	20	
Surr: 4-Bromofluorobenzene	21		20.00		106	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 range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201306**
19-Jan-22

Client: Animas Environmental Services
Project: BMG Landfarm

Sample ID: **MB-64988**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **64988**	RunNo: **85165**
Prep Date: **1/12/2022**	Analysis Date: **1/14/2022**	SeqNo: **2996155** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-64988**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **64988**	RunNo: **85165**
Prep Date: **1/12/2022**	Analysis Date: **1/14/2022**	SeqNo: **2996156** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Services | Work Order Number: 2201306 | RcptNo: 1

Received By: Cheyenne Cason 1/8/2022 9:15:00 AM

Completed By: Cheyenne Cason 1/8/2022 9:26:02 AM

Reviewed By: KPA 1/10/22

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: JR 1/10/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-1.2	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: P.O. Box 8
Farmington, NM 87499-00008

Phone #: 505-564-2281

email or Fax#: dreese@animasenvironmental.com

QA/QC Package:
X Standard □ Level 4 (Full Validation)

Accreditation:
□ NELAP □ Other

□ EDD (Type)

Turn-Around Time:
X Standard □ Rush

Project Name: BMG Landfarm

Project #: AES 040605

Project Manager: Elizabeth McNally, David Reese

Sampler:

On Ice: X Yes □ No

Sample Temperature: -1.1 -0.1 = -1.2

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 Request ID	Container Type and #	Preservative Type	HEAL No. 2201306	BTEX 8021	TPH (GRO/DRO/MRO) 8015	TDS SM2540C	Chlorides 300.0	Air Bubbles (Y or N)
01.06.22	11:53	H2O	MW-1	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	001	X	X	X	X	
	13:59	H2O	MW-2	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	002	X	X	X	X	
	13:25	H2O	MW-3	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	003	X	X	X	X	
	12:45	H2O	MW-4	(3) 40 mL glass (1) 250 mL amber glass (1) 500 mL plastic	3-HgCl2 cool 2-Non	004	X	X	X	X	
		H2O	Interstitial Well	(3) 40 mL glass ~~(1) 250 mL amber glass~~ (1) 500 mL plastic	3-HgCl2 cool 2-Non		X	X	X	X	
		H2O	Trip Blank		Cold	005	X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/7/22	1215			1/7/22	1215
1/7/22	1306			1/8/22	0915

Remarks: Sample not frozen

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.

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Friday, June 17, 2022 3:52 PM
To: 'bmg@bmgdrilling.com'
Cc: Elizabeth McNally (emcnally@animasenvironmental.com)
Subject: NM2-004 BMG 2021 Landfarm Monitoring and Sampling Report and Notice of Treatment Zone Cell Closure for Cell 1 and 4 - OCD Review
Attachments: 2022 0617 NM2-004 BMG Corp 2021 Monitoring Report and Notice - OCD Review.pdf

Matt and Elizabeth,

Please see the attached. OCD has completed the review of the 2021 Landfarm Monitoring and Sampling Report and Notice of Treatment Zone Cell Closure for Cell 1 and 4. If you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Brad Jones

Brad A. Jones ● Environmental Scientist Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
1220 S. Saint Francis Drive | Santa Fe, New Mexico 87505
(505) 469-7486 | brad.a.jones@state.nm.us
www.emnrd.nm.gov

State of New Mexico
Energy, Minerals and Natural Resources Department

June 17, 2022

Mr. Matt Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Boulevard
Farmington, New Mexico 87402
bmg@bmgdrilling.com

RE: 2021 Landfarm Monitoring and Sampling Report and Notice of Treatment Zone Cell Closure for Cell 1 and 4
Benson-Montin-Greer Drilling Corp. (OGRID 2096)
Permit Number: NM2-004
Location: NW/4, NW/4 of Section 20, Township 25 North, Range 1 East, NMPM
Rio Arriba County, New Mexico

Mr. Dimond:

The Oil Conservation Division (OCD) has completed its review of Benson-Montin-Greer Drilling Corp's (BMG) 2021 Landfarm Monitoring and Sampling Report and Notice of Treatment Zone Cell Closure for Cell 1 and 4**,** dated April 15, 2022, for the BMG Landfarm under permit NM2-004. OCD's review of the annual report has resulted in the discovery that BMG has not complied with the Closure conditions of existing permit NM2-004 and the closure and post-closure requirements of 19.15.36.18 NMAC to pursue closure and post-closure of the landfarm. The report demonstrates there is confusion on how to apply the transitional provisions of 19.15.36.20.A NMAC to the existing conditions of permit NM2-004 to complete and perform the landfarm monitoring correctly. Also, the report demonstrates BMG's historical non-compliance to the requirements of 19.15.36.15.E(5) NMAC when a release or releases have been detected from the required routine quarterly vadose zone monitoring.

Closure:
OCD wishes to clarify that BMG has not complied with the closure conditions of the existing permit NM2-004 and has not demonstrated compliance to 19.15.36.18 NMAC by providing notice and submitting a closure and post-closure plan and schedule to OCD for review and approval, therefore BMG is not approved to implement any closure and/or post-closure activities. Please submit the required closure notice, closure and post closure plan, and proposed schedule as a stand-alone separate request through OCD Permitting as a "Non-Fee SWMF Submittal" for OCD's review and consideration of approval, unless BMG is also requesting a modification to an existing permit condition and/or requesting an exception/waiver to a Part 36 requirement.

The treatment zone soils in Cells 1 and 4 *have not met closure criteria* specified in 19.15.36.15.F NMAC. OCD wishes to inform BMG that Table 4B of the 2020 Landfarm Monitoring and Sampling Report demonstrated the detected concentrations for Iron of 11,000 mg/kg and 16,000 mg/kg for Cells 1 and 4 from the April 2, 2020 sampling event exceed the 2016 OCD approved background value of 6,500 mg/kg and the NMED SSL Target Soil Leachate Concentration of 6.96E+03 mg/kg (or 6,960 mg/kg) for groundwater with a DAF of 20.

Vadose Zone (VZ) Monitoring:
On June 30, 2011 OCD mailed a letter to each permitted landfarm operator informing them how the transitional provisions of 19.15.36.20 NMAC should be applied to the existing permit conditions. This letter is in the administrative record in OCD Imaging and is available through the following hyperlink: https://ocdimage.emnrd.nm.gov/Imaging/FileStore/santafeadmin/ao/209729/peem0112360331_12_ao.pdf. Please review the June 30, 2011 letter from OCD. Keep in mind that the regulatory language of 19.15.36.20 NMAC was amended on June 30, 2016 and the approach discussed in the June 2011 letter should be applied to the additional considerations identified in 19.15.36.20.A NMAC.

Based upon the existing permit conditions of Permit NM2-004 and the transitional provision of 19.15.36.20.A NMAC, BMG is required to perform the following vadose zone sampling at the OCD permitted surface waste management facility NM2-004:

A minimum of one random vadose zone soil sample will be taken from each individual cell. Samples will be taken quarterly between two (2) to three (3) feet below the native ground surface (as required by permit).

- 1st Quarter VZ sampling event: TPH as determined by EPA method 418.1; BTEX as determined by EPA SW-846 method 8021B or 8260B, and chlorides as determined by EPA method 300.0.
- 2nd Quarter VZ sampling event: TPH as determined by EPA method 418.1; and BTEX as determined by EPA SW-846 method 8021B or 8260B.
- 3rd Quarter VZ sampling event: TPH as determined by EPA method 418.1; BTEX as determined by EPA SW-846 method 8021B or 8260B, major cations/anions (which includes chlorides) and eight (8) RCRA heavy metals.
- 4th Quarter VZ sampling event: TPH as determined by EPA method 418.1; and BTEX as determined by EPA SW-846 method 8021B or 8260B.

- Five year VZ monitoring is required of 19.15.36.15.E(3) NMAC. The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone, using the methods specified below (as determined by EPA SW-846 methods 6010B or 6020) for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC at least every five years and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred

- Release response compliance is required of 19.15.36.15.E(5) NMAC. If vadose zone sampling results show that the concentrations of TPH, BTEX or chlorides exceed the higher of the PQL or the background soil concentrations, then the operator shall notify the division's environmental bureau of the exceedance and shall immediately collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC (2016 OCD approved facility background constituents). The operator shall submit the results of the re-sampling event and a response

action plan for the division's approval within 45 days of the initial notification. The response action plan shall address changes in the landfarm's operation to prevent further contamination and, if necessary, a plan for remediating existing contamination.

19.15.36.15.E(5) NMAC requires the operator to obtain the 4 samples from around the sample location of each detected vadose zone release and demonstrated exceedance to investigate and determine if additional constituents are associated with the detected release locations of TPH, BTEX and/or chloride from the routine quarterly vadose zone monitoring. In the future, immediately provide the notice to OCD of the detected releases of TPH, BTEX, and chlorides from the routine quarterly vadose zone monitoring and complete the additional sampling and analysis required of 19.15.36.15.E(5) NMAC. The results from the additional sampling should be compared to the 2016 OCD approved facility background concentrations and PQLs. If compliance with the additional sampling required of 19.15.36.15.E(5) NMAC coincides with a routine quarterly vadose zone sampling event, please perform each sampling event separately. The next routine quarterly vadose zone sampling event should not be performed in the same vicinity in which releases were detected from the previous routine sampling event and the additional investigation of 19.15.36.15.E(5) NMAC is required.

On Table 4 of the 2021 Landfarm Monitoring and Sampling Report, BMG documented exceedances above the 2016 OCD approved background of Chloride in Cell 1 for sample locations S1 (32 mg/kg) and S2 (66 mg/kg), and in Cell 2 for sample locations S1 (29 mg/kg) and S4 (67 mg/kg) from the June 16, 2021 vadose zone sampling event and exceedances of TPH in Cell 3 for sample locations S1 (109 mg/kg), S2 (750 mg/kg), and S3 (520 mg/kg) from the October 26, 2021 vadose zone sampling event. BMG is required to comply with the requirements of 19.15.36.15.E(5) NMAC.

OCD is unable to accept the proposed Vadose Zone Risk Assessment Discussion provided in Section 4.2.3 of the 2021 Landfarm Monitoring and Sampling Report, for the exceedances identified in Cells 1-4 for the constituents identified in Section 4.2.2, since it is not based upon actions (additional sampling) and laboratory analytical results required of 19.15.36.15.E(5) NMAC. Also, OCD is unable to accept any non-detect vadose zone monitoring results that utilized a reporting limit greater than the 2016 OCD approved soils background concentrations and PQLs. This would include non-detects for Chloride, Arsenic, Cadmium, Fluoride, Nitrate, Selenium, and Silver because the constituents were assessed by a reporting limit that was approximately 2 to 5 times greater than the background/PQL value approved by OCD. BMG must analyze the vadose zone constituents with a detection limit at or below the background/PQL value approved by OCD for BMG to compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred, as required of 19.15.36.15.E NMAC.

OCD also recommends reviewing the OCD April 21, 2021 policy on *How to address a release to the vadose zone at a Part 36 landfarm pursuant to Part 29* at the following hyperlink from the OCD website: https://www.emnrd.nm.gov/ocd/wp-content/uploads/sites/6/2021-0421-How-to-address-a-release-to-the-vadose-zone-at-a-Part-36-landfarm-pursuant-to-Part-29.pdf. This document is to advise parties on how to address the following scenario: When a landfarm operator completes the release response sampling required of 19.15.36.15.E(5) NMAC and submits a response action plan proposing to remediate the "unauthorized" releases discovered in the vadose zone pursuant to 19.15.29 NMAC and OCD approves the response action plan.

Treatment Zone Monitoring:
BMG must comply with the closure conditions of the existing permit NM2-004 and demonstrate compliance to 19.15.36.18 NMAC by providing notice and submitting a closure/post-closure plan and

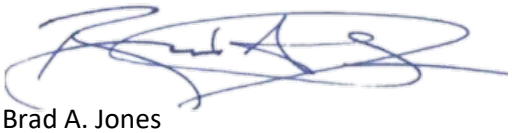
schedule to OCD for review and approval *prior to implementing any closure and/or post-closure activities*.

Recommendations and Scheduled Activities:
In the first bullet under the heading Treatment Zone in Section 5.2, BMG indicates that Cells 1 and 4 met the closure criteria in 2020. This statement is not correct. Table 4B of the 2020 Landfarm Monitoring and Sampling Report demonstrated the detected concentrations for Iron of 11,000 mg/kg and 16,000 mg/kg for Cells 1 and 4 from the April 2, 2020 treatment zone sampling event exceed the 2016 OCD approved background value of 6,500 mg/kg and the NMED SSL Target Soil Leachate Concentration of 6.96E+03 mg/kg (or 6,960 mg/kg) for groundwater with a DAF of 20. Therefore, Cells 1 and 4 have not met the closure standards of 19.15.36.15.F NMAC.

In the second bullet under the heading Treatment Zone in Section 5.2, BMG/AES recommends sampling for TPH, BTEX, chlorides and *the full parameter list from NMAC 20.6.2.3103 (A and B)* for Cells 2 and 3 in summer 2022 to confirm if these cells meet closure criteria. BMG must comply with the closure conditions of the existing permit NM2-004 and demonstrate compliance to 19.15.36.18 NMAC by providing notice and submitting a closure and post-closure plan and schedule to OCD for review and approval prior to implementing any closure and/or post-closure activities. This will ensure that the correct constituents required of 19.15.36.15.F(5) NMAC are analyzed and assessed for closure. Submit the required closure notice, closure and post closure plan, and proposed schedule as a stand-alone separate request through OCD Permitting as a "Non-Fee SWMF Submittal," unless BMG is also requesting a modification to an existing permit condition and/or requesting an exception/waiver to a Part 36 requirement.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 469-7486 or brad.a.jones@state.nm.us.

Respectfully,



Brad A. Jones
Environmental Specialist

Cc: Elizabeth McNally, Animas Environmental Services, LLC, emcnally@animasenvironmental.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 99867

CONDITIONS

Operator: BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	OGRID: 2096
	Action Number: 99867
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
bjones	OCD emailed the review to Matt Dimond (BMG) and Elizabeth McNally (Animas) on June 17, 2022. Please see the OCD Response attached to the end of the report. If you have questions regarding this matter, please do not hesitate to contact me	6/17/2022