May 3, 2021

Zach Stradling
Benson-Montin-Greer Drilling Corp.
4900 College Blvd.
Farmington, New Mexico 87402

Re: Q1 2021 Groundwater Monitoring Report
O-9 Pipeline Release
NMOCD Order Number: AP-31
Rio Arriba County, New Mexico

Dear Mr. Stradling:

Animas Environmental Services, LLC (AES) has prepared this report detailing Q1 2021 groundwater monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) O-9 release location in February 2021. A topographic site location map and an aerial site location map are included as Figures 1 and 2, respectively.

1.0 Site History

1.1 Initial Release and Investigation

Hydrocarbons were discovered in the vicinity of the O-9 pipeline in Santa Fe National Forest by BMG during the summer of 2000. BMG completed removal of approximately 2,800 cubic yards of hydrocarbon-impacted soils and backfilled the excavation with clean soil.

Philip Environmental Services Corporation (Philip) was contracted by BMG to perform a limited subsurface investigation of soil and groundwater from a crude oil pipeline spill. Ten soil borings were completed in August 2000 to assess environmental impacts from the O-9 Line Leak. Five of the borings were converted into monitoring wells (MW-1 through MW-5).

On September 20 and 21, 2001, AMEC Earth & Environmental, Inc. (AMEC) completed further site investigation activities. Seven soil borings were completed, of which three were converted into monitor wells (MW-6 through MW-8). August 2000 to October 2001

624 E. Comanche Street, Farmington, NM 87401
P.O. Box 8, Farmington, NM 87499-008
505-564-2281 animasenvironmental.com

depth to groundwater measurements and water quality data are summarized and presented in Table 1, and laboratory analytical results are presented in Table 2.

1.2 Abatement Plan

BMG submitted a Stage 1 and Stage 2 abatement plan to New Mexico Oil Conservation Division (NMOCD) on November 28, 2001. Public notice requirements were completed by March 11, 2002. Further information required to complete the abatement plan was submitted to NMOCD on August 26, 2002.

1.3 Groundwater Monitoring and Sampling, April 2019 to Present

AES has completed quarterly groundwater monitoring and sampling at the location from April 2019 to present. Results have been submitted to NMOCD in quarterly reports.

1.4 Soil Boring and Monitor Well Installation, November 2020

AES installed three soil borings (SB-16 through SB-18) at the site to further delineate the dissolved phase contamination at the site in November 2020. Two of the borings were completed as 2-inch monitor wells, MW-9 and MW-10. Soil borings were drilled to approximately 25 ft bgs.

The observed lithology was comprised of mainly fine to medium grained sand from the surface down to approximately 14 ft bgs and very low plasticity clay from approximately 14 ft bgs to 25 ft bgs. Weathered sandstone was encountered in SB-17 and SB-18 at approximately 10 and 25 ft bgs, respectively. Evidence of groundwater was observed in SB-17/MW-9 at approximately 18 ft bgs but was not observed in SB-16 or SB-18/MW-10. Visual and olfactory observations did not indicate petroleum hydrocarbon contamination.

Soil samples were collected from 10 and 25 ft bgs in SB-16 and SB-18, and at 5 and 20 ft bgs in SB-17. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and chlorides were not detected in any of the six soil samples that were collected. However, TPH (as GRO, DRO, and MRO) was detected in the samples from SB-16 at 10 ft bgs (94 mg/kg) and SB-18 at 10 ft bgs (350 mg/kg), which exceeds the NMOCD action level of 100 mg/kg. Note that in the sample collected in SB-18 at 25 ft bgs, TPH concentrations were below laboratory detection limits in all three ranges (GRO, DRO, and MRO).

2.0 Groundwater Monitoring and Sampling, February 2021

On February 24, 2021, AES conducted groundwater monitoring and sampling at the site. Ten monitor wells (MW-1 through MW-10) were gauged, and four monitor wells (MW-6 through MW-9) were purged and sampled. Monitor wells MW-4 and MW-5 did not contain enough water to allow for purging or sampling.

Depth to groundwater was measured in each well at the site and used to calculate purge volumes. Wells were purged of approximately three well volumes or until nearly dry with new disposable bailers. Recharge rates at the site vary between very slow to steady production. The bailers were lowered slowly and carefully into the wells to minimize turbidity. After completing purging, samples were collected with new disposable bailers and transferred into 40-mL vials, which were labeled and stored on ice at less than 6°C in a cooler until delivered to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Groundwater samples were analyzed for BTEX per U.S. Environmental Protection Agency (USEPA) Method 8260 as well as TPH as GRO/DRO/MRO per USEPA Method 8015.

2.1 Groundwater Measurement and Water Quality Data

On February 24, 2021, groundwater elevations had risen by an average of approximately 0.58 ft since the November 2020 sampling event. Groundwater elevations ranged between 7,430.54 ft above mean sea level (AMSL) in MW-10 and 7,441.62 ft AMSL in MW-4. Shallow groundwater was observed to flow to the east-southeast, with an approximate gradient of 0.01 ft/ft. Depth to groundwater measurements and water quality data are summarized on Table 1, and a groundwater elevation contour map is included as Figure 3. Groundwater sample collection forms are attached.

2.2 Groundwater Analytical Results

In February 2021, dissolved phase BTEX concentrations were reported below their respective New Mexico Water Quality Control Commission (WQCC) standards at each well sampled. TPH was detected in MW-7 with 0.058 mg/L GRO and 2.9 mg/L DRO. Laboratory analytical results are included on Table 2, and contaminant concentrations are presented on Figure 4. The laboratory analytical report is included as an attachment.

3.0 Discussion

Dissolved phase volatile organic compound (VOC) concentrations in MW-6 and MW-7 in February 2021 remained below New Mexico WQCC standards for the 8th consecutive sampling event. Monitor wells MW-1 through MW-3 and MW-8 had previously been below WQCC standards for eight consecutive events. February 2021 concentrations in MW-9 and MW-10 were also below these standards. Note that MW-10 was sampled for the first time since it was installed in November 2020. Monitor wells MW-4 and MW-5 were either dry or had an insufficient volume of water to be sampled. Positive oxidation reduction potential (ORP) measurements and significant concentrations of dissolved oxygen indicate an aerobic environment that is conducive to natural attenuation of petroleum compounds.

4.0 Conclusions and Recommendations

AES completed quarterly groundwater monitoring and sampling at the site on February 24, 2021. Depth to water was gauged in monitor wells MW-1 through MW-10, but MW-4 and MW-5 were nearly dry and were not able to be sampled. Groundwater samples were collected from monitor wells MW-6 through MW-10 for VOCs and TPH (GRO/DRO/MRO) analysis.

AES recommends the following:

1. Evaluate the effectiveness and costs of limited and shallow injections (10 to 15 ft bgs) into soils in the vicinity of SB-15 and SB-18 to treat shallow residual petroleum hydrocarbon.

2. Plug and abandon monitor wells which have achieved eight consecutive sampling events with no detections above laboratory reporting limits and with no historic NAPL sheen. These wells include MW-1, MW-2, MW-3, MW-6, and MW-8. Remaining site wells should remain open for sampling and measurement of depths to groundwater.

3. Continue quarterly monitoring of wells that have not yet met the criteria of eight consecutive sampling events with concentrations below WQCC standards. Per NMOCD's recommendations, wells that have met the criteria of eight consecutive

events below WQCC standards will be scheduled for annual sampling.

4.1 Scheduled Site Activities

AES has scheduled the following site activities during Q2 2021:

- Groundwater monitoring and sampling will be conducted in May or June 2021, and project notification for field activities will be provided to NMOCD at least two days before work is conducted;
- Monitor wells MW-4, MW-5, MW-9 and MW-10 will be purged and sampled for quarterly laboratory analysis of VOCs per USEPA 8260 and TPH (GRO/DRO) per USEPA 8015;
- All site wells will be measured for depth to water and water quality measurements; and
- With concurrence from NMOCD and USFS, MW-1, MW-2, MW-3, MW-6 and MW-8 will be plugged and abandoned in accordance with New Mexico Office of State Engineer (NMOSE) requirements.

MW-7 will continue to be monitored for a NAPL sheen. In the event a measurable thickness of residual NAPL is observed, AES will hand bail the well until all residual NAPL is removed and install an oil absorbent hydrophobic sock. Absorbent socks will be checked and maintained as part of each quarterly sampling event and residual NAPL will be recovered as it is observed.

If you have any questions about this report, site conditions, or the scheduled work, please feel free to contact Eddie Hubbert at (505) 401-5323 or Elizabeth McNally at (505) 564-2281.

Respectfully Submitted,

David J. Reese
Environmental Scientist

Edward Hubbert

Project Manager

Elizabeth McNally, P.E.

Tables

1. Groundwater Measurements and Water Quality Data
2. Groundwater Laboratory Analytical Results

Figures

1. Topographic Site Location Map
2. Aerial Site Map
3. Groundwater Elevations and Contours, February 2021
4. Groundwater Contaminant Concentrations, February 2021

Attachments

A. Water Sample Collection Forms (February 2021)
B. Laboratory Analytical Report (Hall No. 2102B23)

Cc: Cory Smith (*cory.smith@state.nm.us*)
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Larry D. Gore (*larry.gore@usda.gov*)
U.S. Forest Service
Santa Fe National Forest
P.O. Box 130
Cuba, NM 87013

Shared Documents/O-9 Release/Reports and Workplans/BMG O-9 Line Leak 1st Qtr GW Monitoring Report 050321

Tables

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

Well ID	Date Measured	TOC Elevation* (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thick-ness (ft)	Water Level Elevation (ft amsl)	Correct-ed GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	30-Aug-00	7507.22		16.69		7490.53		16.9	NM	NM	NM	NM
MW-1	06-Feb-01	7507.22		16.08		7491.14		7.6	0.862	NM	5.54	NM
MW-1	05-Oct-01	7507.22		16.15		7491.07		NM	NM	NM	NM	NM
MW-1	03-Apr-19	7507.22		16.74		7490.48		8.3	493.0	2.23	7.32	107.1
MW-1	16-Aug-19	7507.22		18.54		7488.68		10.1	0.77	2.22	7.52	70.6
MW-1	23-Dec-19	7507.22		20.56		7486.66		9.96	0.803	2.66	7.28	119.2
MW-1	24-Mar-20	7507.22		18.91		7488.31		8.5	0.707	3.54	7.14	136.4
MW-1	18-Jun-20	7507.22		19.98		7487.24		8.9	0.72	3.94	7.17	179.8
MW-1	16-Sep-20	7457.88		22.05		7435.83		NM	NM	NM	NM	NM
MW-1	19-Nov-20	7457.88		22.41		7435.47		NM	NM	NM	NM	NM
MW-1	24-Feb-21	7457.88		21.70		7436.18		NM - Gauge Only				
MW-2	30-Aug-00	7506.50		16.62		7489.88		15.2	NM	NM	NM	NM
MW-2	06-Feb-01	7506.50		15.91		7490.59		9.48	1.06	NM	5.9	NM
MW-2	05-Oct-01	7506.50		15.94		7490.56		NA	0.463	6.44	NM	226.7
MW-2	03-Apr-19	7506.50		16.30		7490.20		7.9	448.3	7.02	7.49	72.2
MW-2	16-Aug-19	7506.50		17.81		7488.69		10.8	0.84	1.47	7.40	-67.0
MW-2	23-Dec-19	7506.50		20.41		7486.09		10.16	1.035	2.25	7.13	-67.8
MW-2	24-Mar-20	7506.50		19.12		7487.38		8.5	0.830	3.02	6.97	5.3
MW-2	18-Jun-20	7506.50		19.87		7486.63		10.0	0.82	1.51	6.99	79.5
MW-2	16-Sep-20	7457.24		21.57		7435.67		NM	NM	NM	NM	NM
MW-2	19-Nov-20	7457.24		21.75		7435.49		NM	NM	NM	NM	NM
MW-2	24-Feb-21	7457.24		21.78		7435.46		NM - Gauge Only				
MW-3	30-Aug-00	7508.63		17.21		7491.42		14.3	NM	NM	NM	NM
MW-3	06-Feb-01	7508.63		16.88		7491.75		9.3	84.6	NM	4.97	NM
MW-3	05-Oct-01	7508.63		17.01		7491.62		NM	NM	NM	NM	NM
MW-3	03-Apr-19	7508.63		17.83		7490.80		8.6	446.3	1.55	7.25	134.9
MW-3	16-Aug-19	7508.63		20.69		7487.94		10.6	0.672	1.67	7.52	158.1
MW-3	23-Dec-19	7508.63		21.46		7487.17		9.75	0.729	2.18	7.34	156.7
MW-3	24-Mar-20	7508.63		19.72		7488.91		8.8	0.655	0.98	7.01	158.5

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

Well ID	Date Measured	TOC Elevation* (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thick-ness (ft)	Water Level Elevation (ft amsl)	Correct-ed GW Elev. (ft)	Temp. (° C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-3	18-Jun-20	7508.63		21.42		7487.21		8.9	0.658	1.56	7.04	174.6
MW-3	16-Sep-20	7460.72		22.90		7437.82		NM	NM	NM	NM	NM
MW-3	19-Nov-20	7460.72		22.74		7437.98		NM	NM	NM	NM	NM
MW-3	24-Feb-20	7460.72		22.04		7438.68		NM - Gauge Only				
MW-4	30-Aug-00	7507.10		15.51		7491.59		14.9	NM	NM	NM	NM
MW-4	06-Feb-01	7507.10		15.05		7492.05		7.02	0.77	NM	5.15	NM
MW-4	05-Oct-01	7507.10		15.14		7491.96		NM	NM	NM	NM	NM
MW-4	03-Apr-19	7507.10		14.62		7492.48		4.6	237.3	6.74	7.44	108.9
MW-4	16-Aug-19	7507.10		16.79		7490.31		NM - Insufficient Water				
MW-4	23-Dec-19	7507.10		16.97		7490.13		NM - Insufficient Water				
MW-4	24-Mar-20	7507.10		16.92		7490.18		NM - Insufficient Water				
MW-4	18-Jun-20	7507.10		16.80		7490.30		NM - Insufficient Water				
MW-4	16-Sep-20	7458.66		16.82		7441.84		NM - Insufficient Water				
MW-4	19-Nov-20	7458.66		17.04		7441.62		NM - Insufficient Water				
MW-4	24-Feb-21	7458.66		17.04		7441.62		NM - Insufficient Water				
MW-5	30-Aug-00	7503.22		16.66		7486.56		12.6	NM	NM	NM	NM
MW-5	06-Feb-01	7503.22	16.23	17.41	1.18	7485.81	7486.73	NM - NAPL PRESENT				
MW-5	05-Oct-01	7503.22	16.26	16.74	0.48	7486.48	7486.85	NM - NAPL PRESENT				
MW-5	03-Apr-19	7503.22	16.92	16.93	0.01	7486.29	7486.30	NM - NAPL SHEEN PRESENT				
MW-5	16-Aug-19	7503.22	17.74	17.74	0.00	7485.48		NM - NAPL SHEEN PRESENT				
MW-5	23-Dec-19	7503.22	19.25	19.25	0.00	7483.97		NM - NAPL SHEEN PRESENT				
MW-5	24-Mar-20	7503.22	17.83	17.83	0.00	7485.39		NM - NAPL SHEEN PRESENT				
MW-5	18-Jun-20	7503.22	18.40	18.40	0.00	7484.82		NM - NAPL SHEEN PRESENT				
MW-5	16-Sep-20	7456.42	20.13	20.13	0.00	7436.29		NM - NAPL SHEEN PRESENT				
MW-5	19-Nov-20	7456.42		20.74		7435.68		NM - Insufficient Water				
MW-5	24-Feb-21	7456.42		21.21		7435.21		NM - Insufficient Water				
MW-6	05-Oct-01	NS		15.81				NA	0.544	3.29	NM	213.9
MW-6	03-Apr-19	NS		16.04				7.3	209.5	8.09	7.63	140.5

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

Well ID	Date Measured	TOC Elevation* (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thick-ness (ft)	Water Level Elevation (ft amsl)	Correct-ed GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-6	16-Aug-19	NS		17.02				10.6	0.618	6.22	7.61	125.7
MW-6	23-Dec-19	NS		18.28				9.32	0.719	1.77	7.22	48.6
MW-6	24-Mar-20	NS		17.21				7.8	0.437	6.14	7.40	154.2
MW-6	18-Jun-20	NS		17.77				9.0	0.580	2.50	7.30	130.2
MW-6	16-Sep-20	7454.18		19.09		7435.09		11.1	0.484	1.98	7.19	149.7
MW-6	19-Nov-20	7454.18		19.47		7434.71		11.3	0.509	2.18	6.82	149.0
MW-6	24-Feb-21	7454.18		19.59		7434.59		8.3	0.493	2.99	7.56	205.5
MW-7	05-Oct-01	NS		16.00				NA	0.547	3.10	NM	-65.9
MW-7	03-Apr-19	NS	16.67	16.68	0.01			NM - NAPL SHEEN PRESENT				
MW-7	16-Aug-19	NS		17.45				NM - NAPL SHEEN PRESENT				
MW-7	23-Dec-19	NS		18.93				NM - NAPL SHEEN PRESENT				
MW-7	24-Mar-20	NS	17.62	17.62	0.00			7.7	1.02	4.52	7.11	112.1
MW-7	18-Jun-20	NS		18.17				NM - NAPL SHEEN PRESENT				
MW-7	16-Sep-20	7455.96		19.16		7436.80		NM - NAPL SHEEN PRESENT				
MW-7	19-Nov-20	7455.96		21.17		7434.79		NM - NAPL SHEEN PRESENT				
MW-7	24-Feb-21	7455.96		20.48		7435.48		8.0	0.668	5.25	7.23	128.9
MW-8	05-Oct-01	NS		14.06				NM	NM	NM	NM	NM
MW-8	03-Apr-19	NS		14.69				8.8	485.7	4.19	7.36	130.6
MW-8	16-Aug-19	NS		16.71				11.2	0.72	1.44	6.08	85.3
MW-8	23-Dec-19	NS		17.47				10.41	0.798	1.89	7.13	-57.4
MW-8	24-Mar-20	NS		16.38				9.4	0.720	1.59	7.11	-49.8
MW-8	18-Jun-20	NS		17.45				10.2	0.70	1.58	7.18	-15.4
MW-8	16-Sep-20	7452.31		18.67		7433.64		11.6	0.545	1.60	6.97	-19.1
MW-8	19-Nov-20	7452.31		18.60		7433.71		11.4	0.544	1.45	6.78	-30.9
MW-8	24-Feb-21	7452.31		18.08		7434.23		NM - Gauge Only				
MW-9	19-Nov-20	7458.38		22.84		7435.54		9.2	0.485	5.24	7.07	184.4
MW-9	24-Feb-21	7458.38		23.16		7435.22		6.6	0.462	4.40	7.01	197.4

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

Well ID	Date Measured	TOC Elevation* (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thick-ness (ft)	Water Level Elevation (ft amsl)	Correct-ed GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-10	19-Nov-20	7453.59		27.12		7426.47		NM - Insufficient Water				
MW-10	24-Feb-21	7453.59		23.05		7430.54		7.4	283.7	4.01	7.10	44.7

NOTES: NA NOT AVAILABLE
NM NOT MEASURED
NS NOT SURVEYED
TOC TOP OF CASING
*September 2020 TOCs were measured at MW-1 through MW-10 using UAS/drone mapping and were not professionally surveyed.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8021B/ 8260B	8015B/ 8015D	8015B/ 8015M/D	8015B/ 8015M/D
NM WQCC STANDARD		*5*	*1,000*	*700*	*620*	*NE*	*NE*	*NE*
MW-1	30-Aug-00	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-1	06-Feb-01	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-1	25-Sep-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-1	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-1	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	23-Dec-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-1	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-1	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-2	30-Aug-00	<0.5	<0.5	<0.5	2.1	<2.0	<1.0	<1.0
MW-2	06-Feb-01	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-2	05-Oct-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-2	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-2	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	23-Dec-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-2	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-2	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-3	30-Aug-00	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-3	06-Feb-01	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-3	25-Sep-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-3	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-3	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	23-Dec-19	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	NA
MW-3	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-3	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-4	30-Aug-00	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-4	06-Feb-01	<0.5	<0.5	<0.5	<0.5	<2.0	<1.0	<1.0
MW-4	25-Sep-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-4	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-5	30-Aug-00	**400**	56	79	260	<2.0	1.6	<1.0
MW-5	03-Apr-19	<2.0	<2.0	<2.0	5.7	2.6	13	NA
MW-5	16-Aug-19	<1.0	<1.0	2.3	13	3.0	20	5.4

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

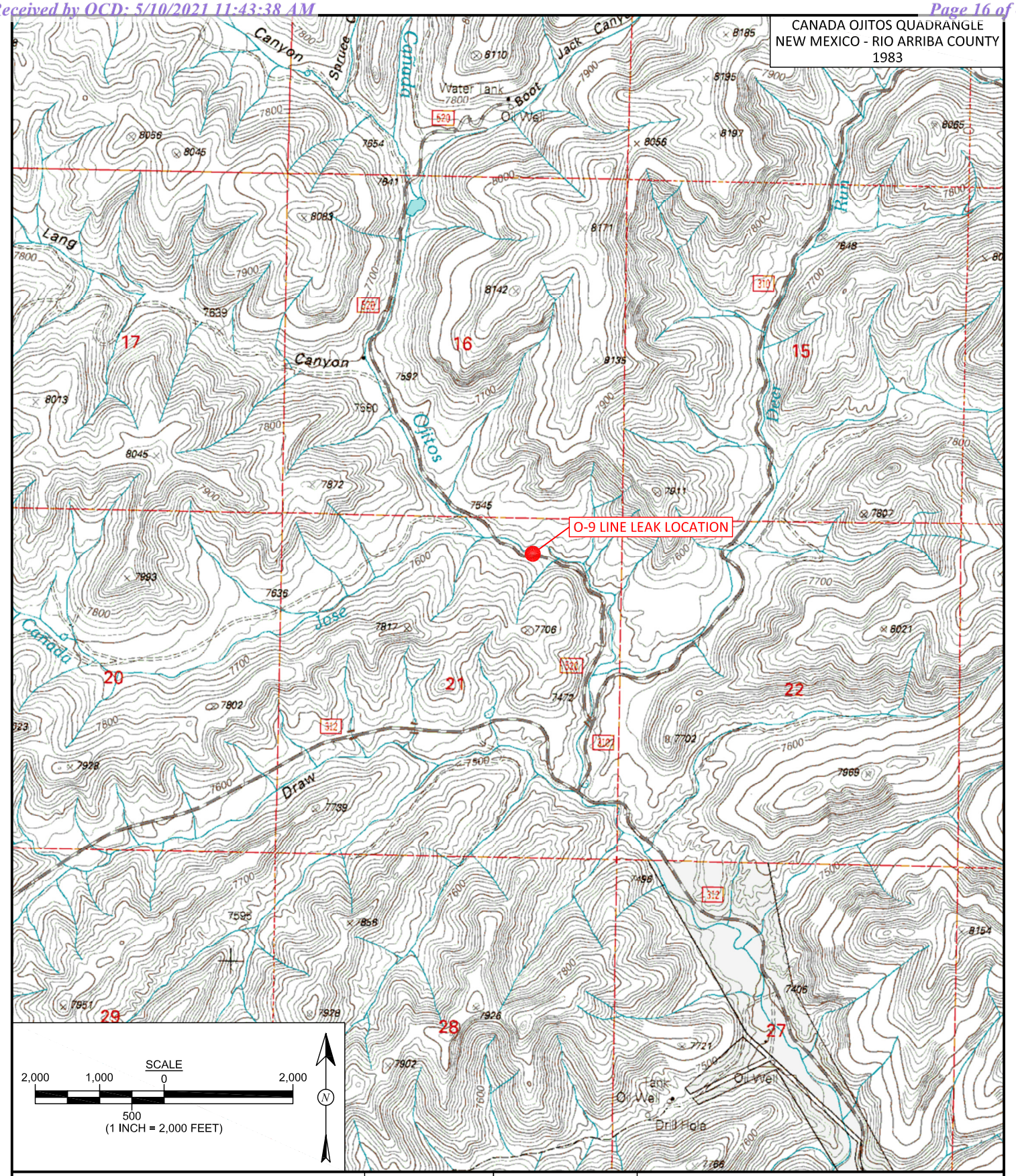
Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B/ 8015D**	**8015B/ 8015M/D**	**8015B/ 8015M/D**
NM WQCC STANDARD		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-5	23-Dec-19	<5.0	<5.0	10	64	12	1,100	NA
MW-5	24-Mar-20	<2.0	<2.0	<2.0	<3.0	1.2	1.6	NA
MW-5	18-Jun-20	<1.0	<1.0	<1.0	<2.0	1.6	15	<5.0
MW-5	16-Sep-20	<1.0	<1.0	<1.0	<1.5	0.34	4.5	NA
MW-6	05-Oct-01	**69**	<0.5	23	41	NA	NA	NA
MW-6	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-6	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	23-Dec-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-6	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-6	18-Jun-20	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	NA
MW-6	16-Sep-20	<1.0	<1.0	<1.0	<1.5	<0.10	<1.0	NA
MW-6	19-Nov-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-6	24-Feb-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-7	05-Oct-01	**350**	47	87	310	NA	NA	NA
MW-7	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	6.1	NA
MW-7	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	8.1	<5.0
MW-7	23-Dec-19	<2.0	<2.0	<2.0	<4.0	<0.10	4.2	NA
MW-7	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-7	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	6.7	<5.0
MW-7	16-Sep-20	<1.0	<1.0	<1.0	<1.5	0.078	5.7	NA
MW-7	19-Nov-20	<1.0	<1.0	<1.0	<1.5	0.054	3.4	<5.0
MW-7	24-Feb-21	<1.0	<1.0	<1.0	<1.5	0.058	2.9	<5.0
MW-8	25-Sep-01	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-8	03-Apr-19	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-8	16-Aug-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	23-Dec-19	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-8	24-Mar-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-8	18-Jun-20	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	NA
MW-8	16-Sep-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	NA
MW-8	19-Nov-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-9	19-Nov-20	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*
Analytical Method		**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8021B/ 8260B**	**8015B/ 8015D**	**8015B/ 8015M/D**	**8015B/ 8015M/D**
NM WQCC STANDARD		***5***	***1,000***	***700***	***620***	***NE***	***NE***	***NE***
MW-9	24-Feb-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-10	24-Feb-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0

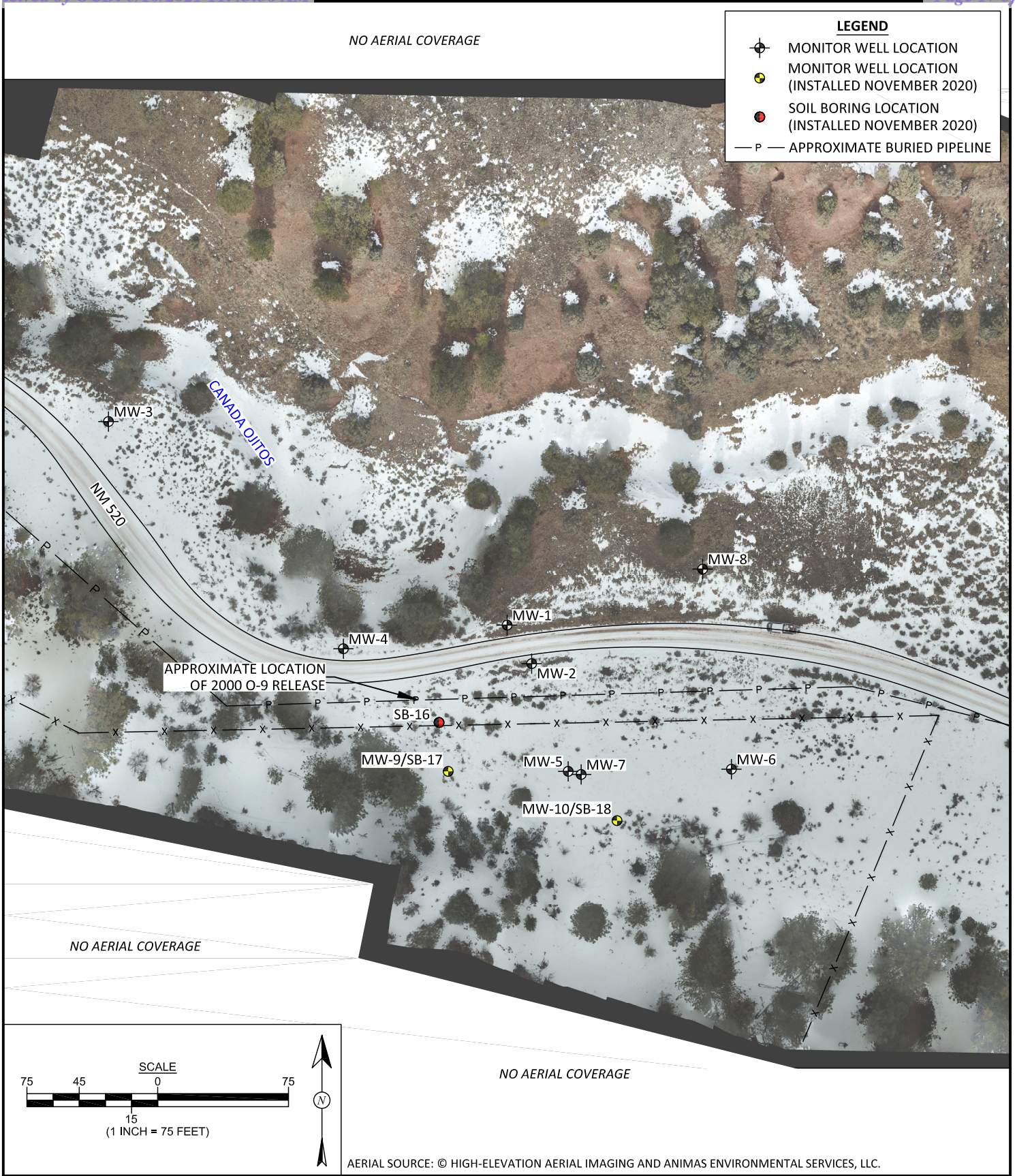
NOTES: NA = Not Analyzed
NE = Not Established
NS = Not Sampled
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
MRO = Motor Oil Range Organics

Figures



DRAWN BY: C. Lameman	**DATE DRAWN:** June 3, 2019	**FIGURE 1**
REVISIONS BY: C. Lameman	**DATE REVISED:** March 10, 2021	**TOPOGRAPHIC SITE LOCATION MAP** BENSON-MONTIN-GREER O-9 LINE LEAK LOCATION N½ OF NE¼, SECTION 21, T26N, R1W RIO ARRIBA COUNTY, NEW MEXICO
CHECKED BY: D. Reese	**DATE CHECKED:** March 10, 2021	
APPROVED BY: E. McNally	**DATE APPROVED:** March 10, 2021	

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



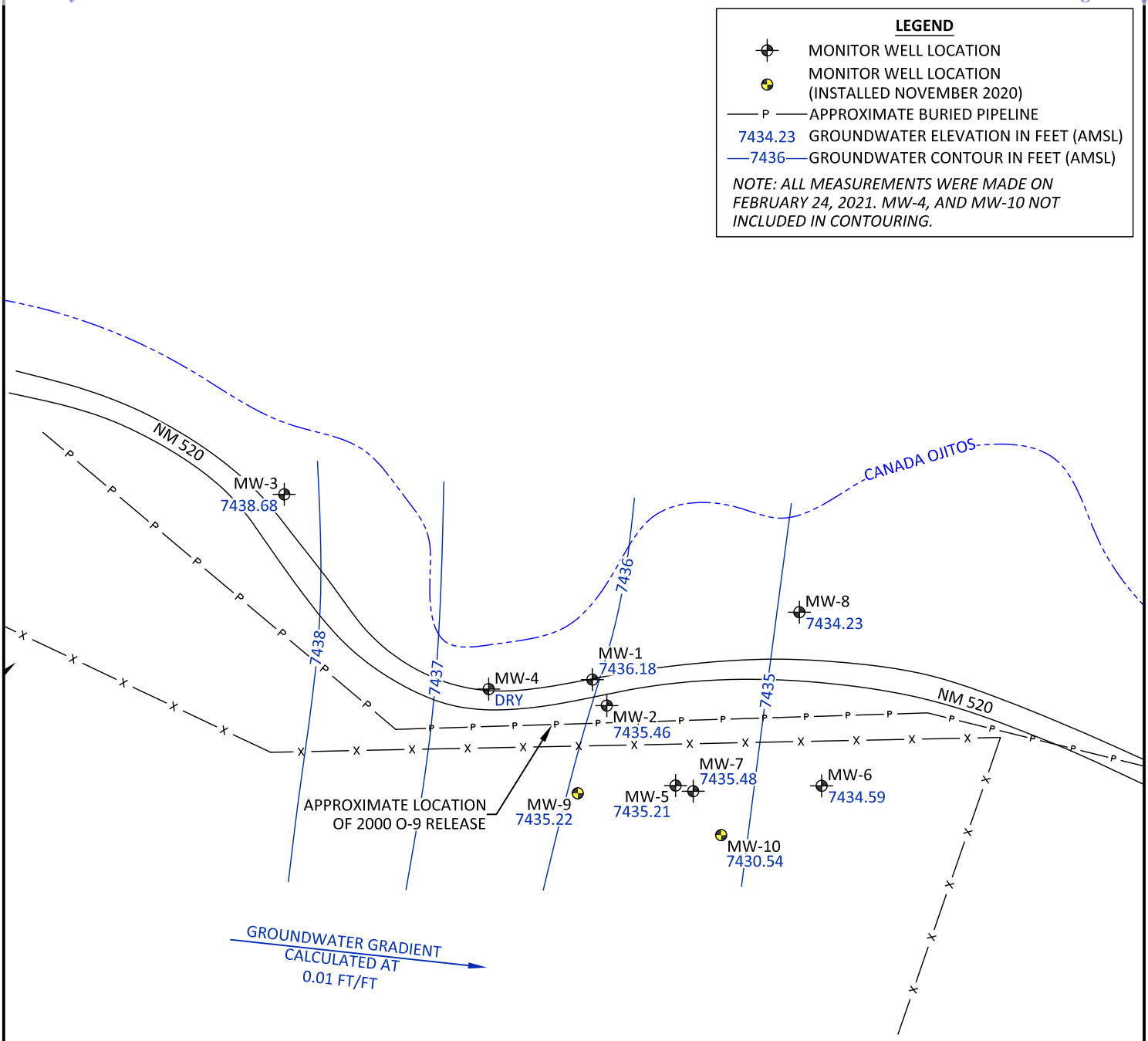
AERIAL SOURCE: © HIGH-ELEVATION AERIAL IMAGING AND ANIMAS ENVIRONMENTAL SERVICES, LLC.

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

DRAWN BY: C. Lameman	**DATE DRAWN:** June 3, 2019
REVISIONS BY: C. Lameman	**DATE REVISED:** March 10, 2021
CHECKED BY: D. Reese	**DATE CHECKED:** March 10, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** March 10, 2021

FIGURE 2

AERIAL SITE LOCATION MAP AND MONITOR WELL LOCATIONS
BENSON-MONTIN-GREER
O-9 LINE LEAK LOCATION
N½ OF NE¼, SECTION 21, T26N, R1W
RIO ARRIBA COUNTY, NEW MEXICO

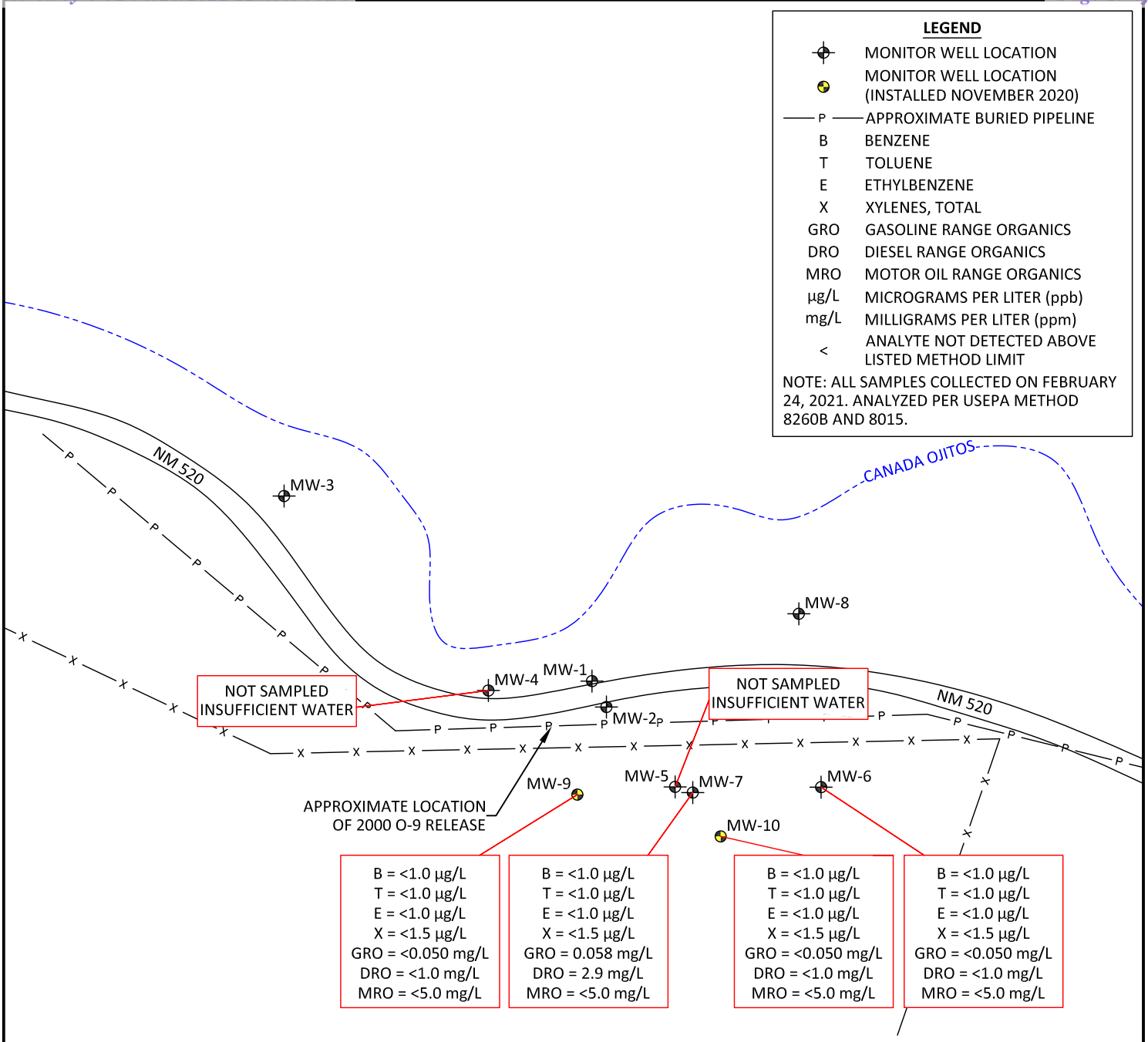


animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY: C. Lameman	**DATE DRAWN:** June 3, 2019
REVISIONS BY: C. Lameman	**DATE REVISED:** March 10, 2021
CHECKED BY: D. Reese	**DATE CHECKED:** March 10, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** March 10, 2021

FIGURE 3

GROUNDWATER ELEVATIONS
FEBRUARY 2021
BENSON-MONTIN-GREER
O-9 LINE LEAK LOCATION
N½ OF NE¼, SECTION 21, T26N, R1W
RIO ARRIBA COUNTY, NEW MEXICO



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

DRAWN BY: C. Lameman	**DATE DRAWN:** June 3, 2019
REVISIONS BY: C. Lameman	**DATE REVISED:** March 30, 2021
CHECKED BY: D. Reese	**DATE CHECKED:** March 30, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** March 30, 2021

FIGURE 4

GROUNDWATER CONTAMINANT CONCENTRATIONS, FEBRUARY 2021
BENSON-MONTIN-GREER
O-9 LINE LEAK LOCATION
N½ OF NE¼, SECTION 21, T26N, R1W
RIO ARRIBA COUNTY, NEW MEXICO

Attachments

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring and Sampling
Site: BMG
Location: O-9
Tech: G. Broome, C. Lameman

Project No.:
Date: 2-24-21
Time: ~~1158~~ - 9:37 - 11:40
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	9:45	–	21.70	–	Guage Only
MW-2	9:47	–	21.78	–	Gauge Only
MW-3	9:37	–	22.04	–	Guage only
MW-4	9:40	–	17.04	–	
MW-5	11:22	–	21.21	–	
MW-6	9:57	–	19.59	–	
MW-7	11:00	–	20.48	–	
MW-8	9:51	–	18.08	–	Gauge Only
MW-9	10:28	–	23.16	–	
MW-10	10:46	–	23.05	–	

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

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: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/CB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 17.04 **Time:** 9:40 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): — **Time:** — *(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.:
Date: 2-24-21
Arrival Time: 9:39
Air Temp: 36°F Cloudy
T.O.C. Elev. (ft): 7507.1
Total Well Depth (ft): 17.09

Water Quality Parameters - Recorded During Well Purging

YSI # — **Calibrated by:** —

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

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

Disposal of Purged Water: NA
Collected Samples Stored on Ice in Cooler: NA
Chain of Custody Record Complete: NA
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: Insufficient water column for water Readings and Sampling.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-5

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/GB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 21.21 **Time:** 11:20 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 21.21 **Time:** 11:22 *(taken prior to purging well)*
Final D.T.W. (ft): 21.52 **Time:** 11:35 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.:
Date: 2-24-21
Arrival Time: 11:19
Air Temp: 39F Cloudy Breezy
T.O.C. Elev. (ft): 7503.22
Total Well Depth (ft): 21.70

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 2-24-21 GB

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
	SEE NOTES BELOW					initial cr	
							Samples Collected cr
							Unable to Yield See Notes

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

Disposal of Purged Water: On Ground - No drainage to Wash
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 ≈ 0.25 Gallons
Insufficient water for water Quality Readings. ~~Samples Only Collected.~~ cr
Bailer pulled was filled w/ mud no water. No Samples Collected

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-6

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/GB
Purge / No Purge: Purge
Well Diameter (in): 4
Initial D.T.W. (ft): 19.59 **Time:** 9:55 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 19.59 **Time:** 9:57 *(taken prior to purging well)*
Final D.T.W. (ft): 21.60 **Time:** 10:14 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.:
Date: 2-24-21
Arrival Time: 9:53
Air Temp: 37°F Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 23.41

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 2-24-21 GB

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:02	9.6	519	6.79	8.24	216.6	Initial	Clear / No Odor
10:04	8.6	469.9	4.45	7.93	211.4	1.0	Turbid / No Odor
10:06	8.3	492.6	3.82	7.76	209.8	2.0	Turbid / Low Recharge / No Odor
10:08	8.3	492.8	2.99	7.56	205.5	3.0	S.A.A.
10:12	—						Samples Collected
							Low Yield and Recharge

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

Disposal of Purged Water: On Ground - No drainage to Wash
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 ≈ 7.5 Gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-7

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/GB
Purge / No Purge: Purge
Well Diameter (in): 4
Initial D.T.W. (ft): 20.49 **Time:** 10:59 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 20.48 **Time:** 11:00 *(taken prior to purging well)*
Final D.T.W. (ft): 21.58 **Time:** 11:15 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** – **D.T.W.:** – **Thickness:** – **Time:** –

Project No.:
Date: 2-24-21
Arrival Time: 10:58
Air Temp: 39F Cloudy Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 21.82

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: ~~Gabriela~~ AJ 2-24-21 GB

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
							V. Low Yield
11:05	8.0	668	5.25	7.23	128.9	Initial	Brown Sed / Crude Oil V. Turbid / Odor
11:14	—	—	—	—	—	0.5	Samples Collected
							V. Low Yield and
							Recharge.

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

Disposal of Purged Water: On Ground - No drainage to Wash
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-9

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CA/GB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 23.16 **Time:** 10:26 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 23.16 **Time:** 10:28 *(taken prior to purging well)*
Final D.T.W. (ft): 26.42 **Time:** 10:40 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.:
Date: 2-24-21
Arrival Time: 10:24
Air Temp: 38F Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 27.18

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 2-24-21 GB

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:30	7.8	474.1	5.58	7.19	195.2	Initial	Tan Sed SI. Turbid / No odor
10:32	7.1	469.2	3.80	7.06	201.1	1.0	S.A.A.
10:35	6.6	462.3	4.40	7.01	199.4	2.0	S.A.A.
10:38							Samples Collected

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

Disposal of Purged Water: On Ground - No drainage to Wash
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 Gallons

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-10

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

Site: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL/GB
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 23.05 **Time:** 10:44 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 23.05 **Time:** 10:46 *(taken prior to purging well)*
Final D.T.W. (ft): 26.97 **Time:** 10:57 *(taken after sample collection)*
If NAPL Present: D.T.P.: — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 2-24-21
Arrival Time: 10:43
Air Temp: 38F Cloudy
T.O.C. Elev. (ft):
Total Well Depth (ft): 27.43

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: ~~GB~~ 2-24-21 GB

Time	Temp (deg C)	Conductivity (µS) (~~mS~~)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:49	8.0	274.2	~~24.8~~ 2.87	7.08	97.7	Initial	Tan Sed Sl. Turbid / Organic odor
10:51	7.4	283.7	4.01	7.10	44.7	1.0	Brown Sed V. Turbid / Strong Organic odor
10:56	—	—	—	—	—	1.5	Samples Collected
							V. Low Yield and Recharge

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

VOCs Full List per EPA Method 8260 (5 - 40 mL Vials w/ HgCl2 preserve)
GRO + DRO per EPA Method 8015M (250 mL Amber Glass)

Disposal of Purged Water: On Ground - No drainage to Wash
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 ≈ 2.0 Gallons

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

March 04, 2021

Elizabeth McNally

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

RE: BMG 0 9 OrderNo.: 2102B23

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/25/2021 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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-6
Project: BMG 0 9
Collection Date: 2/24/2021 10:12:00 AM
Lab ID: 2102B23-001 **Matrix:** AQUEOUS **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/2/2021 3:40:47 PM	B75631
Surr: BFB	103	70-130		%Rec	1	3/2/2021 3:40:47 PM	B75631
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/1/2021 12:01:34 PM	58362
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/1/2021 12:01:34 PM	58362
Surr: DNOP	102	63.7-164		%Rec	1	3/1/2021 12:01:34 PM	58362
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Toluene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Ethylbenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Naphthalene	ND	2.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
2-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Acetone	ND	10		µg/L	1	3/2/2021 3:40:47 PM	A75631
Bromobenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Bromodichloromethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Bromoform	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Bromomethane	ND	3.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
2-Butanone	ND	10		µg/L	1	3/2/2021 3:40:47 PM	A75631
Carbon disulfide	ND	10		µg/L	1	3/2/2021 3:40:47 PM	A75631
Carbon Tetrachloride	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Chlorobenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Chloroethane	ND	2.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Chloroform	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Chloromethane	ND	3.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
2-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
4-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
cis-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Dibromochloromethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Dibromomethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-6
Project: BMG 0 9
Collection Date: 2/24/2021 10:12:00 AM
Lab ID: 2102B23-001 **Matrix:** AQUEOUS **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,1-Dichloroethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,1-Dichloroethene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,3-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
2,2-Dichloropropane	ND	2.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,1-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Hexachlorobutadiene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
2-Hexanone	ND	10		µg/L	1	3/2/2021 3:40:47 PM	A75631
Isopropylbenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
4-Isopropyltoluene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
4-Methyl-2-pentanone	ND	10		µg/L	1	3/2/2021 3:40:47 PM	A75631
Methylene Chloride	ND	3.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
n-Butylbenzene	ND	3.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
n-Propylbenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
sec-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Styrene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
tert-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
trans-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Trichlorofluoromethane	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Vinyl chloride	ND	1.0		µg/L	1	3/2/2021 3:40:47 PM	A75631
Xylenes, Total	ND	1.5		µg/L	1	3/2/2021 3:40:47 PM	A75631
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	3/2/2021 3:40:47 PM	A75631
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	3/2/2021 3:40:47 PM	A75631
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/2/2021 3:40:47 PM	A75631
Surr: Toluene-d8	121	70-130		%Rec	1	3/2/2021 3:40:47 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-7
Project: BMG 0 9
Collection Date: 2/24/2021 11:14:00 AM
Lab ID: 2102B23-002 **Matrix:** AQUEOUS **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.058	0.050		mg/L	1	3/2/2021 5:04:02 PM	B75631
Surr: BFB	108	70-130		%Rec	1	3/2/2021 5:04:02 PM	B75631
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **mb**	
Diesel Range Organics (DRO)	2.9	1.0		mg/L	1	3/1/2021 12:30:23 PM	58362
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/1/2021 12:30:23 PM	58362
Surr: DNOP	124	63.7-164		%Rec	1	3/1/2021 12:30:23 PM	58362
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Toluene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Ethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Naphthalene	ND	2.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
2-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Acetone	ND	10		µg/L	1	3/2/2021 5:04:02 PM	A75631
Bromobenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Bromodichloromethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Bromoform	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Bromomethane	ND	3.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
2-Butanone	ND	10		µg/L	1	3/2/2021 5:04:02 PM	A75631
Carbon disulfide	ND	10		µg/L	1	3/2/2021 5:04:02 PM	A75631
Carbon Tetrachloride	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Chlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Chloroethane	ND	2.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Chloroform	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Chloromethane	ND	3.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
2-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
4-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
cis-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Dibromochloromethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Dibromomethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-7
Project: BMG 0 9
Collection Date: 2/24/2021 11:14:00 AM
Lab ID: 2102B23-002 **Matrix:** AQUEOUS **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,1-Dichloroethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,1-Dichloroethene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,3-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
2,2-Dichloropropane	ND	2.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,1-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Hexachlorobutadiene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
2-Hexanone	ND	10		µg/L	1	3/2/2021 5:04:02 PM	A75631
Isopropylbenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
4-Isopropyltoluene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
4-Methyl-2-pentanone	ND	10		µg/L	1	3/2/2021 5:04:02 PM	A75631
Methylene Chloride	ND	3.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
n-Butylbenzene	ND	3.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
n-Propylbenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
sec-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Styrene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
tert-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
trans-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Trichlorofluoromethane	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Vinyl chloride	ND	1.0		µg/L	1	3/2/2021 5:04:02 PM	A75631
Xylenes, Total	ND	1.5		µg/L	1	3/2/2021 5:04:02 PM	A75631
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	3/2/2021 5:04:02 PM	A75631
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	3/2/2021 5:04:02 PM	A75631
Surr: Dibromofluoromethane	107	70-130		%Rec	1	3/2/2021 5:04:02 PM	A75631
Surr: Toluene-d8	119	70-130		%Rec	1	3/2/2021 5:04:02 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-9
Project: BMG 0 9
Collection Date: 2/24/2021 10:38:00 AM
Lab ID: 2102B23-003 **Matrix:** AQUEOUS **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/2/2021 5:31:22 PM	B75631
Surr: BFB	108	70-130		%Rec	1	3/2/2021 5:31:22 PM	B75631
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/1/2021 12:40:10 PM	58362
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/1/2021 12:40:10 PM	58362
Surr: DNOP	121	63.7-164		%Rec	1	3/1/2021 12:40:10 PM	58362
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Toluene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Ethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Naphthalene	ND	2.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
2-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Acetone	ND	10		µg/L	1	3/2/2021 5:31:22 PM	A75631
Bromobenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Bromodichloromethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Bromoform	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Bromomethane	ND	3.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
2-Butanone	ND	10		µg/L	1	3/2/2021 5:31:22 PM	A75631
Carbon disulfide	ND	10		µg/L	1	3/2/2021 5:31:22 PM	A75631
Carbon Tetrachloride	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Chlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Chloroethane	ND	2.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Chloroform	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Chloromethane	ND	3.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
2-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
4-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
cis-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Dibromochloromethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Dibromomethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-9
Project: BMG 0 9
Collection Date: 2/24/2021 10:38:00 AM
Lab ID: 2102B23-003 **Matrix:** AQUEOUS **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,1-Dichloroethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,1-Dichloroethene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,3-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
2,2-Dichloropropane	ND	2.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,1-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Hexachlorobutadiene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
2-Hexanone	ND	10		µg/L	1	3/2/2021 5:31:22 PM	A75631
Isopropylbenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
4-Isopropyltoluene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
4-Methyl-2-pentanone	ND	10		µg/L	1	3/2/2021 5:31:22 PM	A75631
Methylene Chloride	ND	3.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
n-Butylbenzene	ND	3.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
n-Propylbenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
sec-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Styrene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
tert-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
trans-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Trichlorofluoromethane	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Vinyl chloride	ND	1.0		µg/L	1	3/2/2021 5:31:22 PM	A75631
Xylenes, Total	ND	1.5		µg/L	1	3/2/2021 5:31:22 PM	A75631
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	3/2/2021 5:31:22 PM	A75631
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	3/2/2021 5:31:22 PM	A75631
Surr: Dibromofluoromethane	103	70-130		%Rec	1	3/2/2021 5:31:22 PM	A75631
Surr: Toluene-d8	119	70-130		%Rec	1	3/2/2021 5:31:22 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-10
Project: BMG 0 9
Collection Date: 2/24/2021 10:56:00 AM
Lab ID: 2102B23-004 **Matrix:** AQUEOUS **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/2/2021 5:58:42 PM	B75631
Surr: BFB	107	70-130		%Rec	1	3/2/2021 5:58:42 PM	B75631
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **mb**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/1/2021 12:49:57 PM	58362
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/1/2021 12:49:57 PM	58362
Surr: DNOP	112	63.7-164		%Rec	1	3/1/2021 12:49:57 PM	58362
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Toluene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Ethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Naphthalene	ND	2.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
2-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Acetone	ND	10		µg/L	1	3/2/2021 5:58:42 PM	A75631
Bromobenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Bromodichloromethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Bromoform	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Bromomethane	ND	3.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
2-Butanone	ND	10		µg/L	1	3/2/2021 5:58:42 PM	A75631
Carbon disulfide	ND	10		µg/L	1	3/2/2021 5:58:42 PM	A75631
Carbon Tetrachloride	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Chlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Chloroethane	ND	2.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Chloroform	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Chloromethane	ND	3.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
2-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
4-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
cis-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Dibromochloromethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Dibromomethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-10
Project: BMG 0 9
Collection Date: 2/24/2021 10:56:00 AM
Lab ID: 2102B23-004 **Matrix:** AQUEOUS **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,1-Dichloroethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,1-Dichloroethene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,3-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
2,2-Dichloropropane	ND	2.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,1-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Hexachlorobutadiene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
2-Hexanone	ND	10		µg/L	1	3/2/2021 5:58:42 PM	A75631
Isopropylbenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
4-Isopropyltoluene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
4-Methyl-2-pentanone	ND	10		µg/L	1	3/2/2021 5:58:42 PM	A75631
Methylene Chloride	ND	3.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
n-Butylbenzene	ND	3.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
n-Propylbenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
sec-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Styrene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
tert-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
trans-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Trichlorofluoromethane	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Vinyl chloride	ND	1.0		µg/L	1	3/2/2021 5:58:42 PM	A75631
Xylenes, Total	ND	1.5		µg/L	1	3/2/2021 5:58:42 PM	A75631
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	3/2/2021 5:58:42 PM	A75631
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	3/2/2021 5:58:42 PM	A75631
Surr: Dibromofluoromethane	105	70-130		%Rec	1	3/2/2021 5:58:42 PM	A75631
Surr: Toluene-d8	120	70-130		%Rec	1	3/2/2021 5:58:42 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG 0 9 **Collection Date:**
Lab ID: 2102B23-005 **Matrix:** TRIP BLANK **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/2/2021 6:26:18 PM	B75631
Surr: BFB	103	70-130		%Rec	1	3/2/2021 6:26:18 PM	B75631
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Toluene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Ethylbenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Naphthalene	ND	2.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
2-Methylnaphthalene	ND	4.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Acetone	ND	10		µg/L	1	3/2/2021 6:26:18 PM	A75631
Bromobenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Bromodichloromethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Bromoform	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Bromomethane	ND	3.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
2-Butanone	ND	10		µg/L	1	3/2/2021 6:26:18 PM	A75631
Carbon disulfide	ND	10		µg/L	1	3/2/2021 6:26:18 PM	A75631
Carbon Tetrachloride	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Chlorobenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Chloroethane	ND	2.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Chloroform	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Chloromethane	ND	3.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
2-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
4-Chlorotoluene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
cis-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Dibromochloromethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Dibromomethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,1-Dichloroethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,1-Dichloroethene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631

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 **2102B23**
Date Reported: **3/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG 0 9 **Collection Date:**
Lab ID: 2102B23-005 **Matrix:** TRIP BLANK **Received Date:** 2/25/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,3-Dichloropropane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
2,2-Dichloropropane	ND	2.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,1-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Hexachlorobutadiene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
2-Hexanone	ND	10		µg/L	1	3/2/2021 6:26:18 PM	A75631
Isopropylbenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
4-Isopropyltoluene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
4-Methyl-2-pentanone	ND	10		µg/L	1	3/2/2021 6:26:18 PM	A75631
Methylene Chloride	ND	3.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
n-Butylbenzene	ND	3.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
n-Propylbenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
sec-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Styrene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
tert-Butylbenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
trans-1,2-DCE	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Trichlorofluoromethane	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Vinyl chloride	ND	1.0		µg/L	1	3/2/2021 6:26:18 PM	A75631
Xylenes, Total	ND	1.5		µg/L	1	3/2/2021 6:26:18 PM	A75631
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	3/2/2021 6:26:18 PM	A75631
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	3/2/2021 6:26:18 PM	A75631
Surr: Dibromofluoromethane	106	70-130		%Rec	1	3/2/2021 6:26:18 PM	A75631
Surr: Toluene-d8	117	70-130		%Rec	1	3/2/2021 6:26:18 PM	A75631

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#: **2102B23**
04-Mar-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **MB-58362**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range**							
Client ID: **PBW**	Batch ID: **58362**	RunNo: **75595**							
Prep Date: **2/26/2021**	Analysis Date: **3/1/2021**	SeqNo: **2672601**	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		106	63.7	164			

Sample ID: **LCS-58362**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range**							
Client ID: **LCSW**	Batch ID: **58362**	RunNo: **75595**							
Prep Date: **2/26/2021**	Analysis Date: **3/1/2021**	SeqNo: **2672602**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.6	1.0	5.000	0	112	70	130			
Surr: DNOP	0.47		0.5000		94.8	63.7	164			

Sample ID: **2102B23-001BMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range**							
Client ID: **MW-6**	Batch ID: **58362**	RunNo: **75595**							
Prep Date: **2/26/2021**	Analysis Date: **3/1/2021**	SeqNo: **2672612**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	114	70	130			
Surr: DNOP	0.39		0.5000		77.6	63.7	164			

Sample ID: **2102B23-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range**							
Client ID: **MW-6**	Batch ID: **58362**	RunNo: **75595**							
Prep Date: **2/26/2021**	Analysis Date: **3/1/2021**	SeqNo: **2672613**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	120	70	130	5.12	20	
Surr: DNOP	0.49		0.5000		97.0	63.7	164	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#: **2102B23**
04-Mar-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A75631** RunNo: **75631**
Prep Date: Analysis Date: **3/2/2021** SeqNo: **2674920** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	84.2	70	130			
Toluene	19	1.0	20.00	0	94.6	70	130			
Chlorobenzene	18	1.0	20.00	0	90.5	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	82.9	70	130			
Trichloroethene (TCE)	15	1.0	20.00	0	76.6	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	11		10.00		112	70	130			

Sample ID: **2102b23-001a ms** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-6** Batch ID: **A75631** RunNo: **75631**
Prep Date: Analysis Date: **3/2/2021** SeqNo: **2674922** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	83.5	70	130			
Toluene	20	1.0	20.00	0	99.3	70	130			
Chlorobenzene	19	1.0	20.00	0	93.0	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	80.6	70	130			
Trichloroethene (TCE)	15	1.0	20.00	0	76.0	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	12		10.00		115	70	130			

Sample ID: **2102b23-001a msd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-6** Batch ID: **A75631** RunNo: **75631**
Prep Date: Analysis Date: **3/2/2021** SeqNo: **2674923** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	84.2	70	130	0.817	20	
Toluene	19	1.0	20.00	0	96.0	70	130	3.38	20	
Chlorobenzene	18	1.0	20.00	0	90.3	70	130	2.98	20	
1,1-Dichloroethene	17	1.0	20.00	0	83.5	70	130	3.50	20	
Trichloroethene (TCE)	15	1.0	20.00	0	76.7	70	130	0.902	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		102	70	130	0	0	
Surr: Toluene-d8	11		10.00		114	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#: **2102B23**
04-Mar-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A75631**	RunNo: **75631**
Prep Date:	Analysis Date: **3/2/2021**	SeqNo: **2674932** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

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#: **2102B23**
04-Mar-21

Client: Animas Environmental Services
Project: BMG 0 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A75631**	RunNo: **75631**
Prep Date:	Analysis Date: **3/2/2021**	SeqNo: **2674932** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	12		10.00		116	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#: **2102B23**

04-Mar-21

Client: Animas Environmental Services

Project: BMG 0 9

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **B75631**	RunNo: **75631**
Prep Date:	Analysis Date: **3/2/2021**	SeqNo: **2674229** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	97.1	70	130			
Surr: BFB	11		10.00		106	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **B75631**	RunNo: **75631**
Prep Date:	Analysis Date: **3/2/2021**	SeqNo: **2674943** 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	11		10.00		106	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: **2102B23** RcptNo: 1

Received By: **Cheyenne Cason** **2/25/2021 7:55:00 AM**

Completed By: **Desiree Dominguez** **2/25/2021 10:44:34 AM** DD

Reviewed By: SGL ~~2/24/21~~ 2/25/21 SGL 2/25/21

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: SGL 2/25/21

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	1.9	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#: ehubbert@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 0-9

Project #:

Project Manager: Elizabeth McNally / Eddie Hubbert

Sampler: CL/GB

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.9-0=1.9 (°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. 2102B23	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) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
2-24-21	10:12	H_2O	MW-6	5-40mL VOAs 1-250mL Amber glass	5-$HgCl_2$ 1-Cool	-001		X						X								
↓	11:14	↓	MW-7	↓	↓	-002		X						X								
↓	10:38	↓	MW-9	↓	↓	-003		X						X								
↓	10:56	↓	MW-10	↓	↓	-004		X						X								
			Trip Blank	2-40mL VOA		-005								X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/24/21	1611	[signature]	[signature]		2/24/21	1611
2/24/21	1811	Christen Watt	[signature]	courier	2/25/21	0755

Remarks: Direct Bill to BMG. Call with any 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.

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 27542

CONDITIONS

Operator:	OGRID:
BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	2096
	Action Number: 27542
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. See app ID 91932 for most updated status.	10/19/2022