APPROVED
By Nelson Velez at 3:18 pm, Dec 28, 2021

animas environmental services

Review of Q2 2021 Groundwater Monitoring Report: Content satisfactory

1. Continue quarterly monitoring of wells that have not yet met the criteria of eight consecutive sampling events with concentrations below WQCC standards.
   a. Complete groundwater monitoring and sampling in August 2021
   b. Purge and sample quarterly laboratory analysis of full list VOCs per USEPA 8260 from monitor wells MW-4, MW-5, MW-9 and MW-10
   c. Continue to monitor MW-7 for LNAPL
   d. In the event a measurable thickness of residual LNAPL is observed within MW-7, hand bail the well until all residual LNAPL is removed
   e. OCD approves installation of oil absorbent hydrophobic sock(s) within MW-7
   f. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022

July 8, 2021

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

Re: Q2 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 Q2 2021 groundwater monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) O-9 release location in May 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

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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 but is below the applicable TPH soil screening level (SSL) of 1,000 mg/kg as referenced in New Mexico Environment Department (NMED) *Volume I – Soil Screening Guidance for Human Health Risk Assessment (February 2019; Revision 2 June 2019)*. 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, May 2021

On May 25, 2021, AES conducted groundwater monitoring and sampling at the site. Ten monitor wells (MW-1 through MW-10) were gauged, and three monitor wells (MW-5, MW-9 and MW-10) were purged and sampled. Monitor well MW-4 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 May 25, 2021, groundwater elevations had risen by an average of approximately 1.25 ft since the February 2021 sampling event. Groundwater elevations ranged between 7,432.25 ft above mean sea level (AMSL) in MW-10 and 7,439.46. ft AMSL in MW-3. MW-4 was observed to be dry. 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 in 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 May 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-5 with 0.64 mg/L of GRO and 2.7 mg/L of DRO, in MW-9 with

1.1 mg/L of DRO, and MW-10 with 1.0 mg/L of 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

Vertical and lateral delineation at the site was achieved with the installation of soil borings and monitor wells in November 2020. The lithology at the site consists primarily of poorly sorted sands ranging from silty to medium grained from the surface to approximately 14 ft bgs. The alternating sands are interbedded with layers including tight clay fractions. Below 14 ft bgs lies alternating layers of silty and sandy clays. Weathered sandstone was encountered at 24 ft bgs in SB- 18/MW-10. TPH concentrations were below NMED soil screening levels referenced in NMED's *Volume I – Soil Screening Guidance for Human Health Risk Assessment (February 2019; Revision 2 June 2019)*. See the *4th Quarter 2020 Report* for more details. The 2019 guidance document specifies that when evaluating TPH contaminated soils, the soil-to-groundwater pathway should be evaluated to determine the potential for hazardous constituents within the TPH range to leach/migrate and impact groundwater. Reported laboratory results for BTEX and chloride showed that concentrations were below NMED soil screening levels (SSLs) for soils leaching to groundwater.

Groundwater contaminant concentrations in May 2021 were all below WQCC standards for BTEX and other volatile organic compounds. Additionally, dissolved phase TPH concentrations from May 2021, soil concentrations from November 2020, and site lithology indicate that the soil-to-groundwater pathway will likely continue to have stable to decreasing TPH groundwater concentrations with TPH soil concentrations remaining below NMED soil screening levels.

Dissolved phase volatile organic compound (VOC) concentrations in MW-1 through MW-3 and MW-6 through MW-8 had previously been below WQCC standards for eight consecutive events. Monitor well MW-4 did not contain sufficient 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 May 25, 2021. Depth to water was gauged in monitor wells MW-1 through MW-10, but MW-4 was nearly dry and was not able to be sampled. Groundwater samples were collected from monitor wells MW-5, MW-9, and MW-10 for VOCs and TPH (GRO/DRO/MRO) analysis.

AES recommends the following:

- 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 Q3 2021:

- Groundwater monitoring and sampling will be conducted in August 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 full list VOCs per USEPA 8260 and TPH (GRO/DRO) per USEPA 8015;
- Depth to water will be measured at each well and water quality measurements will be collected from each well; and

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,

Lany Cupps
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, May 2021
4. Groundwater Contaminant Concentrations, May 2021

Attachments

A. Water Sample Collection Forms (May 2021)
B. Laboratory Analytical Report (Hall No. 2105A88)

Cc: Cory Smith (*cory.smith@state.nm.us*)
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Larry D. Gore (*larry.gore@usda.gov*)
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O-9 Release/Reports and Workplans/BMG O-9 Line Leak 2nd Qtr 2021 GW Monitoring Report 070821.docx

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-1	25-May-21	7457.88		20.22		7437.66		9.8	0.502	3.26	7.42	260.5
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-2	25-May-21	7457.24		19.94		7437.30		9.2	0.296	5.85	7.34	259.5
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

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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
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-3	25-May-21	7460.72		21.26		7439.46		9.6	0.480	2.26	7.89	277.6
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-4	25-May-21	7458.66		17.05		7441.61		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				

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MW-5	24-Feb-21	7456.42		21.21		7435.21		NM - Insufficient Water				
MW-5	25-May-21	7456.42		19.58		7436.84		9.4	0.635	2.01	7.42	113.5
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
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-6	25-May-21	7454.18		18.52		7435.66		8.3	0.360	4.38	7.45	280.1
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-7	25-May-21	7455.96		19.69		7436.27		9.5	0.704	4.22	7.40	273.8
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

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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-8	25-May-21	7452.31		17.46		7434.85		10.0	0.517	4.11	7.67	288.7
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
MW-9	25-May-21	7458.38		20.53		7437.85		7.9	0.475	4.11	7.38	267.5
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
MW-10	25-May-21	7453.59		21.34		7432.25		8.5	0.279	2.51	7.61	191.8

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
MW-5	23-Dec-19	<5.0	<5.0	10	64	12	1,100	NA

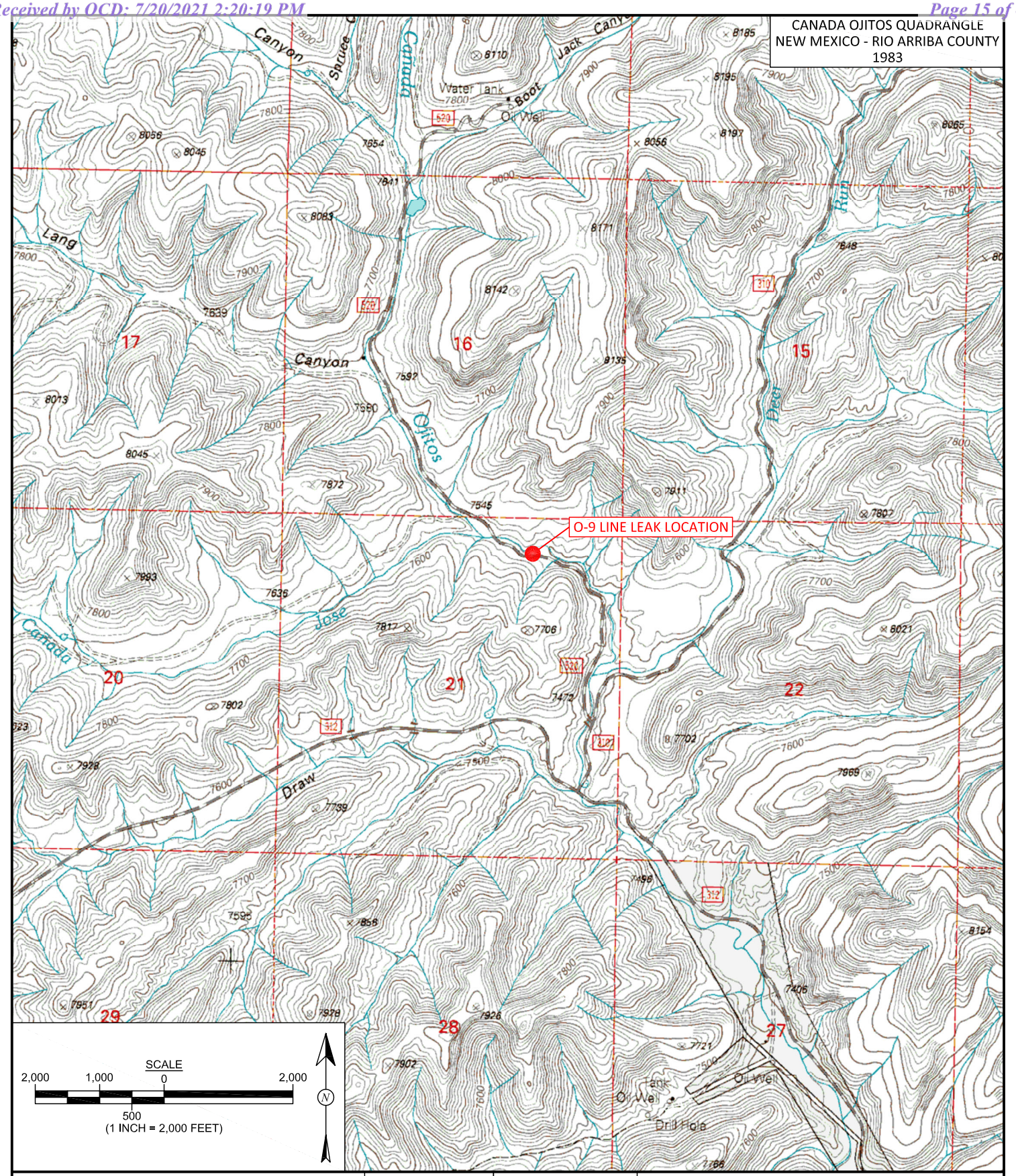
TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

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	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-5	25-May-21	<1.0	<1.0	<1.0	<1.5	0.64	2.7	<5.0
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
MW-9	24-Feb-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0

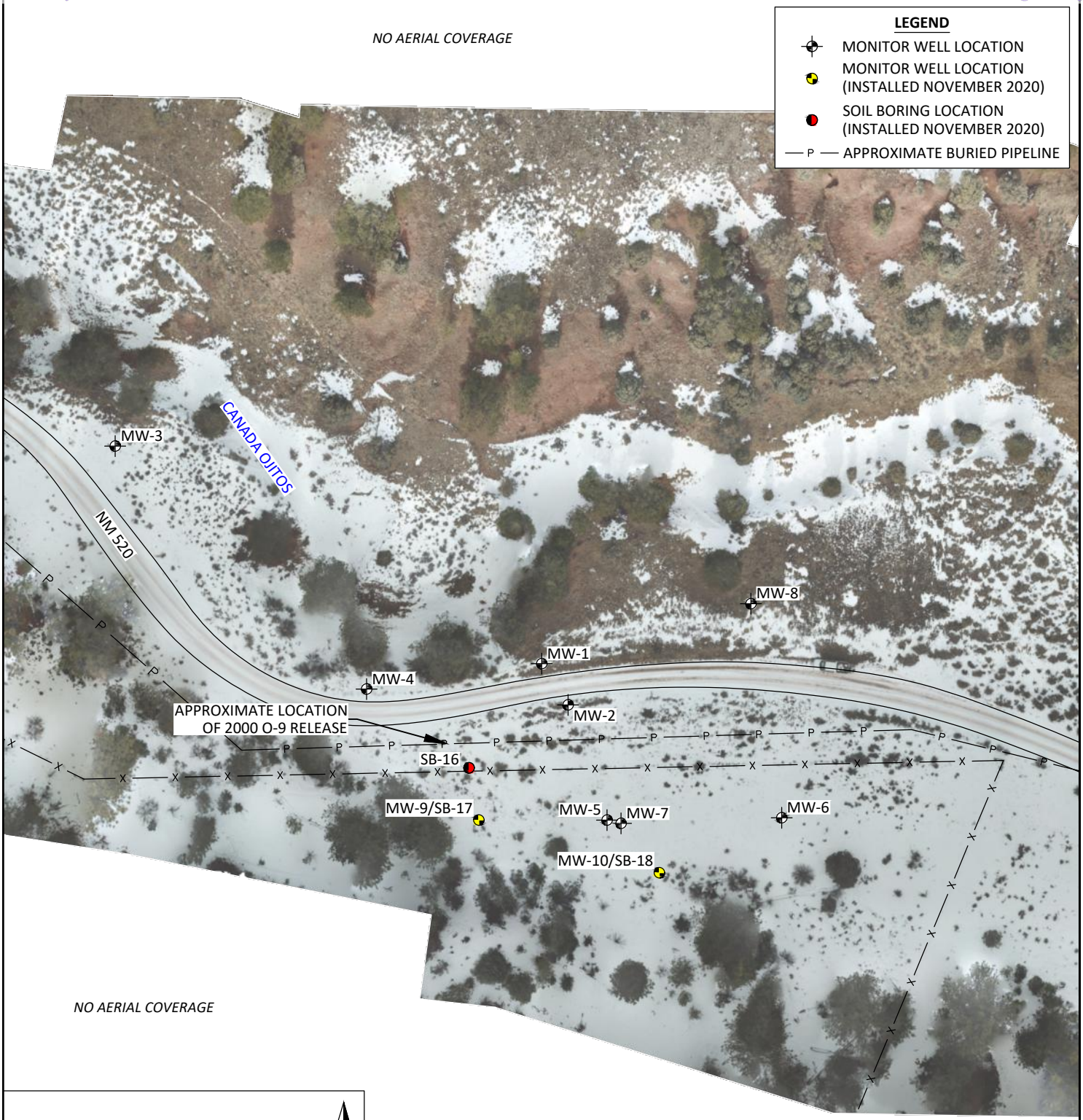
TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG Ojito Canyon (O-9) Release
Rio Arriba County, New Mexico

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	25-May-21	<1.0	<1.0	<1.0	<1.5	<0.050	1.1	<5.0
MW-10	24-Feb-21	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
MW-10	25-May-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



animas environmental services Farmington, NM • Durango, CO animasenvironmental.com	**DRAWN BY:** C. Lameman	**DATE DRAWN:** June 3, 2019	**FIGURE 1** **TOPOGRAPHIC SITE LOCATION MAP** BENSON-MONTIN-GREER O-9 LINE LEAK LOCATION N½ OF NE¼, SECTION 21, T26N, R1W RIO ARRIBA COUNTY, NEW MEXICO
	REVISIONS BY: C. Lameman	**DATE REVISED:** June 11, 2021	
	CHECKED BY: D. Reese	**DATE CHECKED:** June 11, 2021	
	APPROVED BY: E. McNally	**DATE APPROVED:** June 11, 2021	



SCALE
75 45 0 75
15
(1 INCH = 75 FEET)

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

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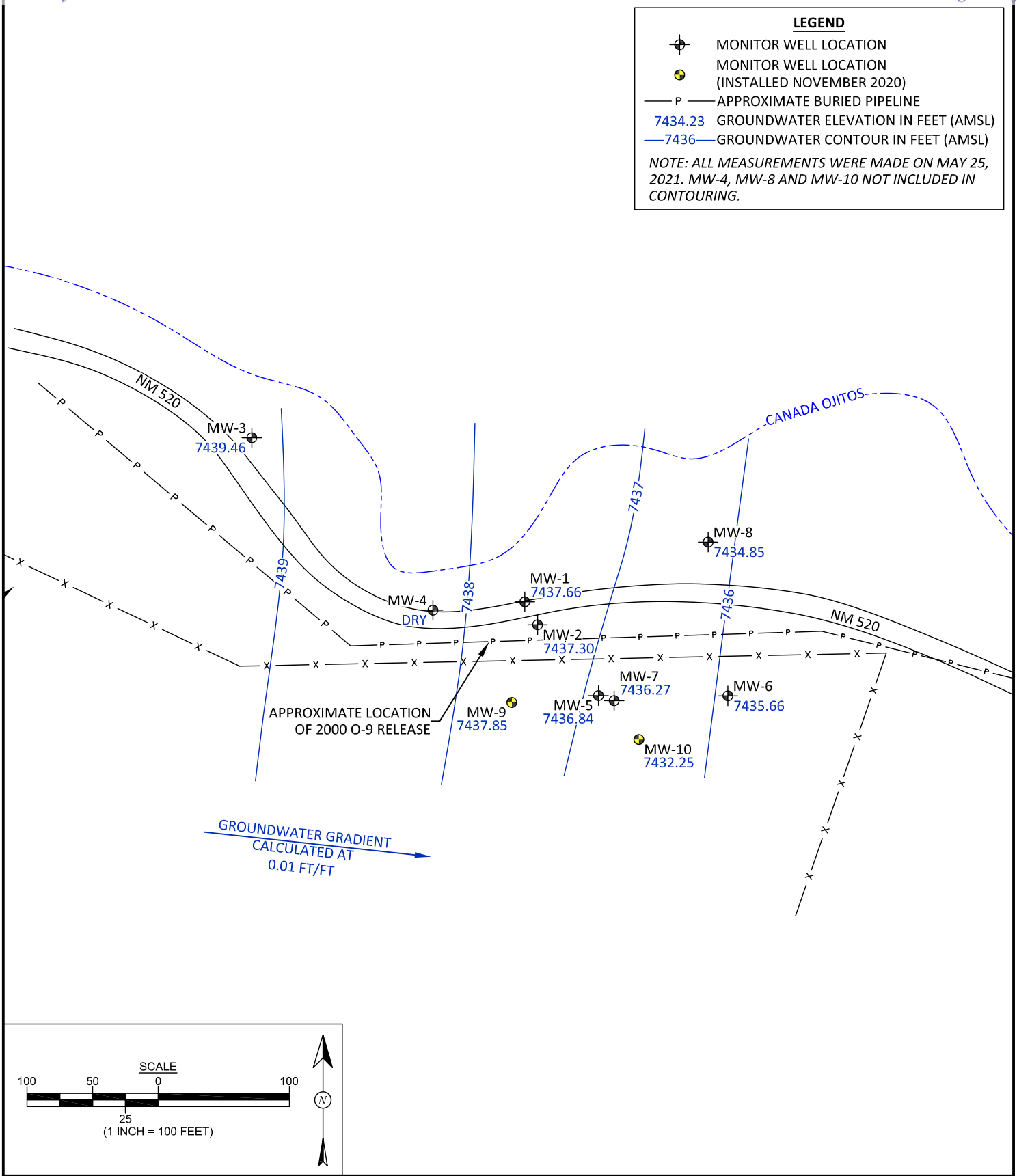
animasenvironmental.com

DRAWN BY: C. Lameman	**DATE DRAWN:** June 3, 2019
REVISIONS BY: C. Lameman	**DATE REVISED:** June 11, 2021
CHECKED BY: D. Reese	**DATE CHECKED:** June 11, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** June 11, 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



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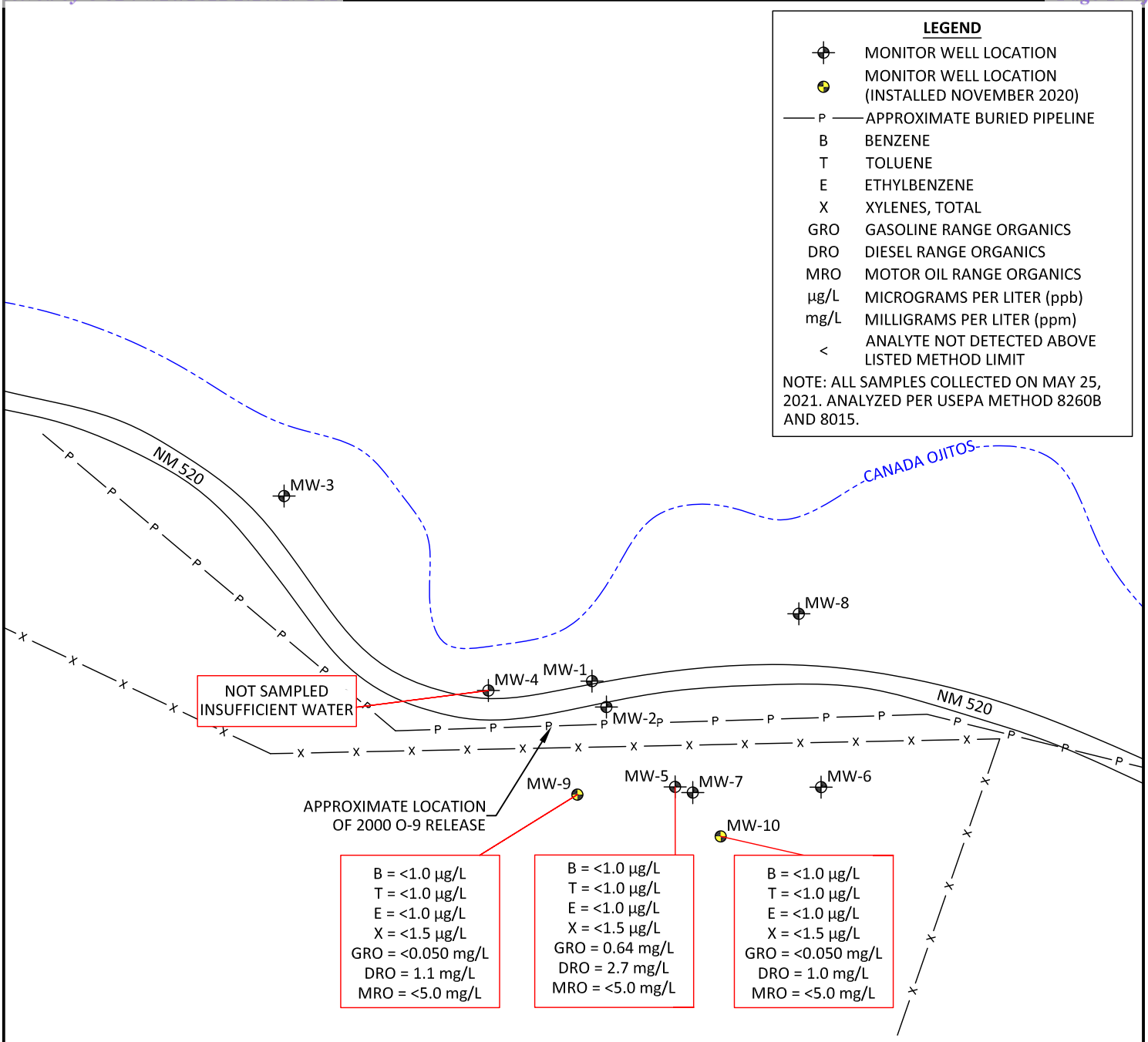
	REVISIONS BY: C. Lameman	DATE REVISED: June 11, 2021
	CHECKED BY: D. Reese	DATE CHECKED: June 11, 2021
	APPROVED BY: E. McNally	DATE APPROVED: June 11, 2021

FIGURE 3

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



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DRAWN BY: C. Lameman	**DATE DRAWN:** June 3, 2019
REVISIONS BY: C. Lameman	**DATE REVISED:** June 11, 2021
CHECKED BY: D. Reese	**DATE CHECKED:** June 11, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** June 11, 2021

FIGURE 4

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

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: C. Lamerman

Project No.:
Date: 5-25-21
Time: 1042 – 1347
Form: 1 of 1

Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	11:23	—	20.22	—	
MW-2	11:33	—	19.94	—	
MW-3	10:50	—	21.26	—	
MW-4	11:04	—	17.05	—	
MW-5	13:15	—	19.58	—	
MW-6	11:49	—	18.52	—	
MW-7	13:02	—	19.69	—	
MW-8	11:11	—	17.46	—	
MW-9	12:33	—	20.53	—	
MW-10	12:06	—	21.34	—	

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: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 20.22 **Time:** 11:20 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 20.22 **Time:** 11:23 *(taken prior to purging well)*
Final D.T.W. (ft): 21.62 **Time:** 11:30 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 5-25-2021
Arrival Time: 11:19
Air Temp: 64°F Sunny, Breezy
T.O.C. Elev. (ft): 7507.22
Total Well Depth (ft): 24.78

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 5-25-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:26	10.8	515	4.76	7.65	284.6	Initial	Clear / No Odor
11:29	9.8	502	3.26	7.42	260.5	1.0	Tan Sed Sl. Turbid / No Odor
							No Samples Collected

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

~~BTEX per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)~~ ~~or~~
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ ~~or~~

Disposal of Purged Water: On ground - No drainage to wash
Collected Samples Stored on Ice in Cooler: No Samples
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:

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: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 19.94 **Time:** 11:31 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 19.94 **Time:** 11:33 *(taken prior to purging well)*
Final D.T.W. (ft): 20.95 **Time:** 11:41 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.:
Date: 5-25-2021
Arrival Time: 11:30
Air Temp: 69°F Sunny, Breezy
T.O.C. Elev. (ft): 7506.5
Total Well Depth (ft): 22.10

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 5-25-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:37	9.7	570	5.23	7.36	256.5	Initial	Clear / No Odor
11:40	9.2	295.7	5.85	7.34	259.5	1.0	Cloudy & Turbid / No Odor
							No Samples
							Collected

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

~~BTEX per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2preserve)~~ CL
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ CL

Disposal of Purged Water: On ground - No drainage to wash
Collected Samples Stored on Ice in Cooler: No Samples
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:

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: BMG
Location: O-9
Project: Groundwater Monitoring and Sampling
Sampling Technician: CL
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 21.26 **Time:** 10:47 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 21.26 **Time:** 10:50 *(taken prior to purging well)*
Final D.T.W. (ft): 22.35 **Time:** 10:58 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 5-25-2021
Arrival Time: 10:44
Air Temp:
T.O.C. Elev. (ft): 7508.63
Total Well Depth (ft): 28.14

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 5-25-2021 a

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
10:54	10.5	494.4	3.59	8.28	270.1	~~1.0~~ Initial	Clear/No Odor
10:57	9.6	479.6	2.26	7.89	277.6	1.0	Brownish Slt. Turbid/No Odor
							No Samples

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

~~BTEX per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2 preserve)~~ a
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ a
No Samples Collected

Disposal of Purged Water: On Ground - No drainage to storm drain/wash
Collected Samples Stored on Ice in Cooler: No Samples
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:

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
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 17.05 **Time:** 11:04 *(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: 5-25-2021
Arrival Time: 11:01
Air Temp:
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
—	SEE NOTES BELOW					—	—
							No 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: N/A
Collected Samples Stored on Ice in Cooler: N/A
Chain of Custody Record Complete: N/A
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Only 0.05 ft of water. Insufficient water column for water quality 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
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 19.58 **Time:** 13:13 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 19.58 **Time:** 13:15 *(taken prior to purging well)*
Final D.T.W. (ft): 20.02 **Time:** 13:38 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 5-25-2021
Arrival Time: 13:12
Air Temp: 74°F Sunny, 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: 5-25-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:22	9.4	635	2.01	7.42	113.5	Initial	Brown sed/Muddy/No Odor V.Turbid
13:37	—						Samples Collected
							Low Yield/Low
							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 ≈ 1.0 Gallons.
Due to calculation - Initial Reading and then sampled due to low yield.
Sock Removed - Rust staining only. No odor. Sock Replaced.

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
Purge / No Purge: Purge
Well Diameter (in): 4
Initial D.T.W. (ft): 18.52 **Time:** 11:45 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 18.52 **Time:** 11:49 *(taken prior to purging well)*
Final D.T.W. (ft): 20.25 **Time:** 11:57 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Project No.:
Date: 5-25-2021
Arrival Time: 11:46
Air Temp: 70°F Sunny, Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 23.41

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 5-25-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:54	9.5	363.4	5.40	7.78	264.2	Initial	Clear/No Odor
11:56	8.3	359.5	4.38	7.45	280.1	1.0	Clear/No Odor
—	—	—	—	—	—	—	No 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)~~ a
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ a

Disposal of Purged Water: On ground - No drainage to wash
Collected Samples Stored on Ice in Cooler: No Samples
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:

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
Purge / No Purge: Purge
Well Diameter (in): 4

Project No.:
Date: 5-25-21
Arrival Time: 12:59
Air Temp: 74°F Sunny Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 21.82

Initial D.T.W. (ft): 19.69 **Time:** 13:00 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 19.69 **Time:** 13:02 *(taken prior to purging well)*
Final D.T.W. (ft): 20.32 **Time:** 13:11 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** – **D.T.W.:** – **Thickness:** – **Time:** –

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 5-25-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
13:06	9.8	727	9.04	7.67	266.4	Initial	Clear / No Odor
13:10	9.5	704	4.22	7.40	273.8	.75	Brown Sed / Turbid / No Odor
							No 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)~~ QC
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ QC

Disposal of Purged Water: On ground - No drainage to wash
Collected Samples Stored on Ice in Cooler: No Samples
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: Low yield water column. - effecting DO Reading

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-8

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
Purge / No Purge: Purge
Well Diameter (in): 4
Project No.:
Date: 5-25-2021
Arrival Time: 11:08
Air Temp: 64°F Sunny, Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 22.68

Initial D.T.W. (ft): 17.46 **Time:** 11:09 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 17.46 **Time:** 11:11 *(taken prior to purging well)*
Final D.T.W. (ft): 18.35 **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 5-25-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
11:14	11.4	543	4.47	8.01	276.3	Initial	Clear / No Oder
11:17	10.0	517	4.11	7.67	288.7	1.0	Clear / No Oder
—	—	—	—	—	—	—	No Samples
							Collected

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

~~BTEX per EPA Method 8021 (3 - 40 mL Vials w/ HgCl2preserve)~~ [a]
~~GRO + DRO per EPA Method 8015M (250 mL Amber Glass)~~ [a]

Disposal of Purged Water: On ground - No drainage to wash
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:

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

Project No.:
Date: 5-25-2021
Arrival Time: ~~12:54~~ 12:24
Air Temp: 75°F Sunny Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 27.18

Initial D.T.W. (ft): 20.53 **Time:** ~~12:55~~ 12:25 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 20.53 **Time:** 12:33 *(taken prior to purging well)*
Final D.T.W. (ft): 24.79 **Time:** 12:51 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** — **D.T.W.:** — **Thickness:** — **Time:** —

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
12:36	8.6	485.2	4.32	7.81	253.1	Initial	Clear / No Odor
12:39	8.3	478.3	5.81	7.49	265.0	1.0	Turbid / No Odor
12:41	7.8	472.0	4.43	7.38	268.9	2.0	S.A.A.
12:44	7.9	474.5	4.11	7.38	267.5	3.0	S.A.A.
12:50	—						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:

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
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 21.33 **Time:** 12:02 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 21.34 **Time:** 12:06 *(taken prior to purging well)*
Final D.T.W. (ft): 25.69 **Time:** 12:23 *(taken after sample collection)*
If NAPL Present: D.T.P.: — D.T.W.: — Thickness: — Time: —

Project No.:
Date: 5-25-2021
Arrival Time: 12:00
Air Temp: 72°F Sunny Breezy
T.O.C. Elev. (ft):
Total Well Depth (ft): 27.43

Water Quality Parameters - Recorded During Well Purging

YSI # 1 Calibrated by: 5-25-21 CL

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
12:08	8.7	305.4	5.09	7.67	259.5	Initial	Clear / No Odor
12:12	7.9	290.0	4.88	7.38	271.6	1.0	Brownish Turbid / No Odor
12:15	8.4	299.5	3.54	7.53	248.1	2.0	S.A.A.
12:18	8.5	279.0	2.51	7.61	191.8	3.0	Brownish V. Turbid / No Odor
12:22	—	—	—	—	—	—	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: No padlock on well casing.
Calculated purge volume ≈ 3 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

June 03, 2021

Elizabeth McNally

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

RE: BMG O 9 OrderNo.: 2105A88

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/26/2021 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 **2105A88**
Date Reported: **6/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-5
Project: BMG O 9
Collection Date: 5/25/2021 1:37:00 PM
Lab ID: 2105A88-001 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	0.64	0.050		mg/L	1	5/28/2021 6:02:17 PM	A78761
Surr: BFB	112	70-130		%Rec	1	5/28/2021 6:02:17 PM	A78761
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**	
Diesel Range Organics (DRO)	2.7	1.0		mg/L	1	5/27/2021 11:21:24 AM	60285
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/27/2021 11:21:24 AM	60285
Surr: DNOP	96.9	63.7-164		%Rec	1	5/27/2021 11:21:24 AM	60285
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Toluene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Ethylbenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Naphthalene	ND	2.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1-Methylnaphthalene	ND	4.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
2-Methylnaphthalene	ND	4.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Acetone	ND	10		µg/L	1	5/28/2021 6:02:17 PM	B78761
Bromobenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Bromodichloromethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Bromoform	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Bromomethane	ND	3.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
2-Butanone	ND	10		µg/L	1	5/28/2021 6:02:17 PM	B78761
Carbon disulfide	ND	10		µg/L	1	5/28/2021 6:02:17 PM	B78761
Carbon Tetrachloride	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Chlorobenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Chloroethane	ND	2.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Chloroform	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Chloromethane	ND	3.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
2-Chlorotoluene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
4-Chlorotoluene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
cis-1,2-DCE	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Dibromochloromethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Dibromomethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761

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 **2105A88**
Date Reported: **6/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-5
Project: BMG O 9
Collection Date: 5/25/2021 1:37:00 PM
Lab ID: 2105A88-001 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 7:05:00 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	5/28/2021 6:02:17 PM	B78761
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,1-Dichloroethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,1-Dichloroethene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2-Dichloropropane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,3-Dichloropropane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
2,2-Dichloropropane	ND	2.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,1-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Hexachlorobutadiene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
2-Hexanone	ND	10		µg/L	1	5/28/2021 6:02:17 PM	B78761
Isopropylbenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
4-Isopropyltoluene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
4-Methyl-2-pentanone	ND	10		µg/L	1	5/28/2021 6:02:17 PM	B78761
Methylene Chloride	ND	3.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
n-Butylbenzene	ND	3.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
n-Propylbenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
sec-Butylbenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Styrene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
tert-Butylbenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
trans-1,2-DCE	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Trichlorofluoromethane	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Vinyl chloride	ND	1.0		µg/L	1	5/28/2021 6:02:17 PM	B78761
Xylenes, Total	ND	1.5		µg/L	1	5/28/2021 6:02:17 PM	B78761
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/28/2021 6:02:17 PM	B78761
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	5/28/2021 6:02:17 PM	B78761
Surr: Dibromofluoromethane	113	70-130		%Rec	1	5/28/2021 6:02:17 PM	B78761
Surr: Toluene-d8	112	70-130		%Rec	1	5/28/2021 6:02:17 PM	B78761

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 **2105A88**
Date Reported: **6/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-9
Project: BMG O 9
Collection Date: 5/25/2021 12:50:00 PM
Lab ID: 2105A88-002 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 7:05:00 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	5/28/2021 7:23:20 PM	A78761
Surr: BFB	105	70-130		%Rec	1	5/28/2021 7:23:20 PM	A78761
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**	
Diesel Range Organics (DRO)	1.1	1.0		mg/L	1	5/27/2021 11:34:36 AM	60285
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/27/2021 11:34:36 AM	60285
Surr: DNOP	96.6	63.7-164		%Rec	1	5/27/2021 11:34:36 AM	60285
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Toluene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Ethylbenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Naphthalene	ND	2.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1-Methylnaphthalene	ND	4.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
2-Methylnaphthalene	ND	4.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Acetone	ND	10		µg/L	1	5/28/2021 7:23:20 PM	B78761
Bromobenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Bromodichloromethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Bromoform	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Bromomethane	ND	3.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
2-Butanone	ND	10		µg/L	1	5/28/2021 7:23:20 PM	B78761
Carbon disulfide	ND	10		µg/L	1	5/28/2021 7:23:20 PM	B78761
Carbon Tetrachloride	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Chlorobenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Chloroethane	ND	2.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Chloroform	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Chloromethane	ND	3.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
2-Chlorotoluene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
4-Chlorotoluene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
cis-1,2-DCE	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Dibromochloromethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Dibromomethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761

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 **2105A88**
Date Reported: **6/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-9
Project: BMG O 9
Collection Date: 5/25/2021 12:50:00 PM
Lab ID: 2105A88-002 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 7:05:00 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	5/28/2021 7:23:20 PM	B78761
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,1-Dichloroethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,1-Dichloroethene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2-Dichloropropane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,3-Dichloropropane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
2,2-Dichloropropane	ND	2.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,1-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Hexachlorobutadiene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
2-Hexanone	ND	10		µg/L	1	5/28/2021 7:23:20 PM	B78761
Isopropylbenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
4-Isopropyltoluene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
4-Methyl-2-pentanone	ND	10		µg/L	1	5/28/2021 7:23:20 PM	B78761
Methylene Chloride	ND	3.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
n-Butylbenzene	ND	3.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
n-Propylbenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
sec-Butylbenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Styrene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
tert-Butylbenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
trans-1,2-DCE	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Trichlorofluoromethane	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Vinyl chloride	ND	1.0		µg/L	1	5/28/2021 7:23:20 PM	B78761
Xylenes, Total	ND	1.5		µg/L	1	5/28/2021 7:23:20 PM	B78761
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	5/28/2021 7:23:20 PM	B78761
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	5/28/2021 7:23:20 PM	B78761
Surr: Dibromofluoromethane	114	70-130		%Rec	1	5/28/2021 7:23:20 PM	B78761
Surr: Toluene-d8	109	70-130		%Rec	1	5/28/2021 7:23:20 PM	B78761

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 **2105A88**
Date Reported: **6/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-10
Project: BMG O 9
Collection Date: 5/25/2021 12:22:00 PM
Lab ID: 2105A88-003 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 7:05:00 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	5/28/2021 8:44:11 PM	A78761
Surr: BFB	99.7	70-130		%Rec	1	5/28/2021 8:44:11 PM	A78761
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **SB**	
Diesel Range Organics (DRO)	1.0	1.0		mg/L	1	5/27/2021 11:47:49 AM	60285
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/27/2021 11:47:49 AM	60285
Surr: DNOP	99.7	63.7-164		%Rec	1	5/27/2021 11:47:49 AM	60285
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Toluene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Ethylbenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Naphthalene	ND	2.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1-Methylnaphthalene	ND	4.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
2-Methylnaphthalene	ND	4.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Acetone	ND	10		µg/L	1	5/28/2021 8:44:11 PM	B78761
Bromobenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Bromodichloromethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Bromoform	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Bromomethane	ND	3.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
2-Butanone	ND	10		µg/L	1	5/28/2021 8:44:11 PM	B78761
Carbon disulfide	ND	10		µg/L	1	5/28/2021 8:44:11 PM	B78761
Carbon Tetrachloride	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Chlorobenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Chloroethane	ND	2.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Chloroform	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Chloromethane	ND	3.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
2-Chlorotoluene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
4-Chlorotoluene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
cis-1,2-DCE	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Dibromochloromethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Dibromomethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761

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 **2105A88**
Date Reported: **6/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-10
Project: BMG O 9
Collection Date: 5/25/2021 12:22:00 PM
Lab ID: 2105A88-003 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 7:05:00 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	5/28/2021 8:44:11 PM	B78761
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,1-Dichloroethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,1-Dichloroethene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2-Dichloropropane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,3-Dichloropropane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
2,2-Dichloropropane	ND	2.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,1-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Hexachlorobutadiene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
2-Hexanone	ND	10		µg/L	1	5/28/2021 8:44:11 PM	B78761
Isopropylbenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
4-Isopropyltoluene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
4-Methyl-2-pentanone	ND	10		µg/L	1	5/28/2021 8:44:11 PM	B78761
Methylene Chloride	ND	3.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
n-Butylbenzene	ND	3.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
n-Propylbenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
sec-Butylbenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Styrene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
tert-Butylbenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
trans-1,2-DCE	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Trichlorofluoromethane	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Vinyl chloride	ND	1.0		µg/L	1	5/28/2021 8:44:11 PM	B78761
Xylenes, Total	ND	1.5		µg/L	1	5/28/2021 8:44:11 PM	B78761
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	5/28/2021 8:44:11 PM	B78761
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	5/28/2021 8:44:11 PM	B78761
Surr: Dibromofluoromethane	115	70-130		%Rec	1	5/28/2021 8:44:11 PM	B78761
Surr: Toluene-d8	104	70-130		%Rec	1	5/28/2021 8:44:11 PM	B78761

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 **2105A88**
Date Reported: **6/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG O 9 **Collection Date:**
Lab ID: 2105A88-004 **Matrix:** TRIP BLANK **Received Date:** 5/26/2021 7:05:00 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	5/28/2021 9:11:17 PM	A78761
Surr: BFB	99.5	70-130		%Rec	1	5/28/2021 9:11:17 PM	A78761
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Toluene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Ethylbenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Naphthalene	ND	2.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1-Methylnaphthalene	ND	4.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
2-Methylnaphthalene	ND	4.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Acetone	ND	10		µg/L	1	5/28/2021 9:11:17 PM	B78761
Bromobenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Bromodichloromethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Bromoform	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Bromomethane	ND	3.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
2-Butanone	ND	10		µg/L	1	5/28/2021 9:11:17 PM	B78761
Carbon disulfide	ND	10		µg/L	1	5/28/2021 9:11:17 PM	B78761
Carbon Tetrachloride	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Chlorobenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Chloroethane	ND	2.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Chloroform	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Chloromethane	ND	3.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
2-Chlorotoluene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
4-Chlorotoluene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
cis-1,2-DCE	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Dibromochloromethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Dibromomethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,1-Dichloroethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,1-Dichloroethene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761

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 **2105A88**
Date Reported: **6/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** Trip Blank
Project: BMG O 9 **Collection Date:**
Lab ID: 2105A88-004 **Matrix:** TRIP BLANK **Received Date:** 5/26/2021 7:05:00 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	5/28/2021 9:11:17 PM	B78761
1,3-Dichloropropane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
2,2-Dichloropropane	ND	2.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,1-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Hexachlorobutadiene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
2-Hexanone	ND	10		µg/L	1	5/28/2021 9:11:17 PM	B78761
Isopropylbenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
4-Isopropyltoluene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
4-Methyl-2-pentanone	ND	10		µg/L	1	5/28/2021 9:11:17 PM	B78761
Methylene Chloride	ND	3.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
n-Butylbenzene	ND	3.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
n-Propylbenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
sec-Butylbenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Styrene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
tert-Butylbenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
trans-1,2-DCE	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Trichlorofluoromethane	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Vinyl chloride	ND	1.0		µg/L	1	5/28/2021 9:11:17 PM	B78761
Xylenes, Total	ND	1.5		µg/L	1	5/28/2021 9:11:17 PM	B78761
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	1	5/28/2021 9:11:17 PM	B78761
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	5/28/2021 9:11:17 PM	B78761
Surr: Dibromofluoromethane	116	70-130		%Rec	1	5/28/2021 9:11:17 PM	B78761
Surr: Toluene-d8	103	70-130		%Rec	1	5/28/2021 9:11:17 PM	B78761

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#: **2105A88**
03-Jun-21

Client: Animas Environmental Services
Project: BMG O 9

Sample ID: **MB-60285** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **PBW** Batch ID: **60285** RunNo: **77695**
Prep Date: **5/26/2021** Analysis Date: **5/27/2021** SeqNo: **2758053** 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	0.96		1.000		96.1	63.7	164			

Sample ID: **LCS-60285** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **LCSW** Batch ID: **60285** RunNo: **77695**
Prep Date: **5/26/2021** Analysis Date: **5/27/2021** SeqNo: **2758056** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.5	1.0	5.000	0	90.1	70	130			
Surr: DNOP	0.48		0.5000		95.6	63.7	164			

Sample ID: **2105A88-001BMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-5** Batch ID: **60285** RunNo: **77695**
Prep Date: **5/26/2021** Analysis Date: **5/27/2021** SeqNo: **2758203** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	8.0	1.0	5.000	2.713	105	70	130			
Surr: DNOP	0.60		0.5000		119	63.7	164			

Sample ID: **2105A88-001BMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range**
Client ID: **MW-5** Batch ID: **60285** RunNo: **77695**
Prep Date: **5/26/2021** Analysis Date: **5/27/2021** SeqNo: **2758204** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	7.9	1.0	5.000	2.713	104	70	130	0.892	20	
Surr: DNOP	0.49		0.5000		97.2	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#: **2105A88**
03-Jun-21

Client: Animas Environmental Services
Project: BMG O 9

Sample ID: **2105a88-001a ms** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-5** Batch ID: **B78761** RunNo: **78761**
Prep Date: Analysis Date: **5/28/2021** SeqNo: **2761181** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	20	1.0	20.00	0	99.4	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.6	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.0	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		121	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	11		10.00		108	70	130			

Sample ID: **2105a88-001a msd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-5** Batch ID: **B78761** RunNo: **78761**
Prep Date: Analysis Date: **5/28/2021** SeqNo: **2761182** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130	0.714	20	
Toluene	20	1.0	20.00	0	98.9	70	130	2.84	20	
Chlorobenzene	19	1.0	20.00	0	95.1	70	130	4.47	20	
1,1-Dichloroethene	19	1.0	20.00	0	96.0	70	130	0.539	20	
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130	2.81	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		114	70	130	0	0	
Surr: Toluene-d8	11		10.00		108	70	130	0	0	

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **B78761** RunNo: **78761**
Prep Date: Analysis Date: **5/28/2021** SeqNo: **2761186** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	21	1.0	20.00	0	107	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	100	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		121	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	11		10.00		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
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#: **2105A88**
03-Jun-21

Client: Animas Environmental Services
Project: BMG O 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B78761**	RunNo: **78761**
Prep Date:	Analysis Date: **5/28/2021**	SeqNo: **2761187** 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#: **2105A88**
03-Jun-21

Client: Animas Environmental Services
Project: BMG O 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B78761**	RunNo: **78761**
Prep Date:	Analysis Date: **5/28/2021**	SeqNo: **2761187** 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		108	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130			
Surr: Dibromofluoromethane	11		10.00		114	70	130			
Surr: Toluene-d8	11		10.00		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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2105A88**
03-Jun-21

Client: Animas Environmental Services
Project: BMG O 9

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **A78761**	RunNo: **78761**
Prep Date:	Analysis Date: **5/28/2021**	SeqNo: **2761170** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	102	70	130			
Surr: BFB	11		10.00		109	70	130			

Sample ID: **2105A88-002A MS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-9**	Batch ID: **A78761**	RunNo: **78761**
Prep Date:	Analysis Date: **5/28/2021**	SeqNo: **2761175** 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	94.2	70	130			
Surr: BFB	10		10.00		103	70	130			

Sample ID: **2105A88-002A MSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-9**	Batch ID: **A78761**	RunNo: **78761**
Prep Date:	Analysis Date: **5/28/2021**	SeqNo: **2761176** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.45	0.050	0.5000	0	89.0	70	130	5.63	20	
Surr: BFB	10		10.00		103	70	130	0	0	

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **A78761**	RunNo: **78761**
Prep Date:	Analysis Date: **5/28/2021**	SeqNo: **2761179** 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		108	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		

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: **2105A88** RcptNo: 1

Received By: **Juan Rojas** **5/26/2021 7:05:00 AM**

Completed By: **Desiree Dominguez** **5/26/2021 7:54:33 AM**

Reviewed By: SPA 5.26.21

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: IO 5.26.21
(<2 or >12 unless noted)
Adjusted?
Checked by:

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	1.3	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#: ehubbert@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 O-9

Project #:

Project Manager:
Elizabeth McNally/ Eddie Hubbert

Sampler: CL
On Ice: ☐ Yes ☐ No
Sample Temperature: 1.4-0.1=1.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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. 2105A88	VOCs FII List (8260))	TPH (GRO/DRO) (8015)							Air Bubbles (Y or N)
~~—~~		~~H_2O~~	~~MW-4~~	5- 40 mL VOA 250 mL amber glass	5-HgCl2 1-cool		x	X	a						
5-25-21	13:37	H_2O	MW-5	5- 40 mL VOA 250 mL amber glass	5-HgCl2 1-cool	-001	x	x							
5-25-21	12:50	H_2O	MW-9	5- 40 mL VOA 250 mL amber glass	5-HgCl2 1-cool	-002	x	x							
5-25-21	12:22	H_2O	MW-10	5- 40 mL VOA 250 mL amber glass	5-HgCl2 1-cool	-003	x	x							
		H_2O	Trip blank	2 - 40 mL VOA		-004	x	x							

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/25/21	1751			5/25/21	1751
Date:	Time:	Relinquished by:	Received by:	Date	Time
5/25/21	1840		courier	5/26/21	7:10

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

CONDITIONS

Action 36822

CONDITIONS

Operator:	OGRID:
BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	2096
	Action Number: 36822
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of Q2 2021 Groundwater Monitoring Report: Content satisfactory 1. Continue quarterly monitoring of wells that have not yet met the criteria of eight consecutive sampling events with concentrations below WQCC standards. a. Complete groundwater monitoring and sampling in August 2021 b. Purge and sample quarterly laboratory analysis of full list VOCs per USEPA 8260 from monitor wells MW-4, MW-5, MW-9 and MW-10 c. Continue to monitor MW-7 for LNAPL d. In the event a measurable thickness of residual LNAPL is observed within MW-7, hand bail the well until all residual LNAPL is removed e. OCD approves installation of oil absorbent hydrophobic sock(s) within MW-7 f. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	12/28/2021