

February 5, 2021

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

Re: Soil Boring and Monitor Well Installation and 4<sup>th</sup> Quarter 2020 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 the installation of soil borings and monitor wells (SB-16, SB-17/MW-9, and SB-18/MW-10) and fourth quarter 2020 groundwater monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) O-9 release location in November 2020. A topographic site location map and an aerial site location map are included as Figures 1 and 2.

## 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 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 September 2020

AES completed quarterly groundwater monitoring and sampling at the location between April 2019 and June 2020. Brief summaries are included below:

- April 2019 Groundwater was observed between 14.62 and 17.83 ft bgs, and groundwater elevations decreased by approximately 0.36 ft since the October 2001 sampling event. A slight sheen was detected in MW-5 and MW-7 but was bailed off, and both wells were subsequently sampled. Dissolved phase benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations did not exceed laboratory detection limits or New Mexico Water Quality Control Commission (WQCC) standards in any of the wells except MW-5 (5.7 µg/L total xylenes). Total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) were also detected in MW-5, at 2.6 mg/L. TPH as diesel range organics (DRO) was detected in MW-5 (13 mg/L) and MW-7 (6.1 mg/L).
- August 2019 Shallow groundwater was observed to flow to the northeast, with an approximate gradient of 0.01 ft/ft which is indicative of seasonal gaining stream characteristics. A slight residual sheen was detected in MW-5 and MW-7 but was bailed off, and both wells were sampled. Dissolved phase BTEX concentrations were reported below applicable WQCC standards in all wells.
- December 2019 All samples were either below laboratory detection limits or well below WQCC standards for contaminants of concern. An oil absorbent sock was installed at 20 ft bgs within MW-5, which was observed to have a measurable residual NAPL sheen.

- March 2020 Groundwater was observed between 16.38 and 19.72 ft bgs. A slight sheen was detected in MW-5 and MW-7 but was bailed off, and both wells were sampled. Dissolved phase BTEX was detected at concentrations below WQCC standards in all wells. TPH as GRO (1.2 mg/L) and DRO (1.6 mg/L) were detected in MW-5 only.
- June 2020 All samples (MW-1 through MW-3 and MW-5 through MW-8) were either below laboratory detection limits or below WQCC standards for each contaminant of concern. June 2020 was the eighth consecutive sampling event where samples from MW-1, MW-2, and MW-3 were below laboratory detection limits for all constituents of concern
- September 2020 All contaminants of concern were either below laboratory detection limits and/or below WQCC standards in each well that was sampled. Contaminants of concern at MW-8 were all below laboratory detection limits for the eighth consecutive sampling event.

# 2.0 Soil Boring and Monitor Well Installation, November 2020

AES worked with Enviro-Drill (EDI) of Albuquerque, New Mexico, to advance three soil borings (SB-16 through SB-18) at the site to further delineate the dissolved phase contamination at the site. Two of the borings were completed as 2-inch monitor wells (MW-9 and MW-10) on November 4, 2020. The soil borings were advanced via hollow stem auger (HSA) drilling by EDI. The soil boring and monitor well locations are included on Figures 2 and 3, and photographs of site work are included in Appendix A.

## 2.1 NMOSE Permitting

Prior to installation, MW-9, MW-10, and previously installed MW-1 through MW-8 were permitted through NMOSE, and the NMOSE permit (WR-07) and well records (WR-20) are included in Appendix B.

## 2.2 Soil Boring Installation

Soil borings were drilled to approximately 25 ft bgs. The lithology encountered at SB-16 through SB-18 was consistent with what was observed during the 2001 monitor well installations. 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 hydrocarbon contamination. SB-16 was abandoned and back-filled with soil cuttings. Soil boring logs and well completion diagrams are presented in Appendix C.

## 2.3 Field Screening and Results

AES collected soil samples for heated headspace field screening and laboratory analysis from all borings. Soil samples were collected using split spoon samplers at 5-ft intervals. A handful of soil from each split spoon sample was placed in a clean mason jar which was then sealed shut using aluminum foil and the mason jar ring. The sample was labeled and heated using the floorboard heater in the field vehicle. Once warmed, the PID/OVM tip was used to puncture the foil to facilitate surveying of the vapors within. The screening threshold of 100 ppmv was only exceeded at SB-18/MW-10 (154.6 ppmv at 10 ft bgs). Field screening OVM results are included in the soil boring logs and on Figure 3.

#### 2.4 Monitor Well Construction

SB-17 and SB-18 were completed as 2-inch diameter schedule 40 PVC monitor wells. Each well was constructed with 15 ft of 0.050-inch slot screen and 10 ft of riser. Next, 10/20 silica sand was placed from the bottom of each bore hole up to two ft above the top of the screen. A 3-ft bentonite plug (3/8-inch chips) was placed above the sand and hydrated. Portland cement grout was placed from the bentonite plug up to the surface by tremie pipe. Finally, a steel stickup well protector was installed extending approximately 2 ft above grade and set in a concrete pad approximately 2 ft in diameter. Well construction diagrams are attached in Appendix C.

#### 2.5 Soil Laboratory Analyses

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. Samples collected for laboratory analysis were placed in new, clean, laboratory-supplied containers, labeled, placed on ice, and logged onto a sample chain of custody record. The samples were kept on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were analyzed for:

- BTEX per USEPA Method 8021B;
- TPH (GRO/DRO/MRO) per USEPA Method 8015M; and
- Chlorides per USEPA Method 300.0.

#### 2.6 Soil Analytical Results

BTEX and chlorides were not detected in any of the six soil samples that were collected. 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). Laboratory analytical results are summarized and presented in Table 1 and on Figures 3A and 3B.

## 2.7 Monitor Well Development

Monitor wells MW-9 and MW-10 were developed on November 11, 2020, to remove finegrained sediments that may have been trapped in the filter pack during installation. The wells were developed by a combination of surging and bailing techniques using a new disposable bailer. Note that MW-10 contained only 0.3 ft of water, which was not enough for development activities to be performed. Well development records are included in Appendix D.

#### 2.8 Investigation Derived Waste

Drill cuttings were used to backfill SB-16. Drill cuttings from SB-17 and SB-18 were thinspread at the site.

# 3.0 Groundwater Monitoring and Sampling, November 2020

On November 19, 2020, 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, MW-5, and MW-10 did not contain enough water to allow for purging and 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. 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 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 and DRO per USEPA Method 8015.

#### 3.1 Groundwater Measurement and Water Quality Data

On November 19, 2020, groundwater elevations had decreased by an average of approximately 0.24 ft since the September 2020 sampling event. Groundwater elevations ranged between 7,433.71 ft above mean sea level (AMSL) in MW-8 and 7,441.62 ft AMSL in MW-4. Shallow groundwater was observed to flow to the east-northeast, with an approximate gradient of 0.01 ft/ft. Depth to groundwater measurements and water quality data are summarized on Table 2, and a groundwater elevation contour map is included as Figure 4. Groundwater sample collection forms are attached.

## 3.2 Groundwater Analytical Results

November 2020 groundwater analytical results showed that dissolved phase BTEX concentrations were reported below applicable WQCC standards in all wells. TPH as GRO was detected in MW-7 (0.054 mg/L). TPH as DRO was also detected in MW-7 (3.4 mg/L). Laboratory analytical results are included on Table 3, and contaminant concentrations are presented on Figure 5. The laboratory analytical report is attached.

## 4.0 Discussion

The geology 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. Average depth to groundwater has declined by approximately 4.57 ft since October 2001.

It appears that subsequent to the contaminated soil removal in 2000, some residual NAPL remained in the subsurface outside the excavated area. This residual NAPL has been a source for dissolved phase BTEX and TPH contamination, specifically in monitor wells

MW-5 and MW-7 where a residual NAPL sheen (non-measurable) has regularly been observed. An absorbent hydrophobic sock has been installed MW-5 to mitigate the sheen.

With the installation of soil boring SB-16, SB-17 and SB-18 in November 2020, the following objectives have been met:

- Vertical delineation below the base of the 2000 excavation has been confirmed with the installation of SB-16. No odors or staining were noted; soil concentrations from 10 ft and 25 ft bgs showed that benzene, BTEX, and TPH (GRO, DRO, and MRO) were below NMOCD action levels (see Figure 3A).
- Further lateral and vertical delineation of the southeast wall of the 2000 excavation has been completed with the installation of SB-17/MW-9. Weathered sandstone was encountered in this boring at about 10 ft and 18 ft bgs, and saturated soils were observed at about 22 ft bgs. No odors or staining were observed within the boring. Soil samples collected from 5 ft and 20 ft were below laboratory detection limits for benzene, BTEX, and TPH (GRO, DRO, and MRO) (see Figure 3A). Groundwater laboratory analytical results were also below laboratory detection limits for BTEX and TPH (see Figure 5).
- 3. The vertical extent of soil contamination in the area of SB-15 has been confirmed with the installation of SB-18/MW-10. Poorly sorted sands interbedded with low plasticity clays were noted in this well, and sandstone was encountered at about 24 ft bgs. No staining or odors were noted within this boring; however, laboratory analytical results from 10 ft bgs showed that TPH (DRO/MRO) exceeded the NMOCD action level with 350 mg/kg. Soil sample results from 25 ft were below laboratory detection limits for benzene, BTEX, and TPH, confirming the vertical extent of soil impacts (see Figure 3A). A trace amount of groundwater was measured at 27.12 ft in November 2020, and a groundwater sample could not be collected.

Groundwater concentrations in MW-1, MW-2, MW-3 and MW-8 have remained below New Mexico WQCC BTEX standards for eight consecutive sampling events. Wells MW-4 and 5 have been dry or had insufficient water and have not recently been sampled. MW-6 and MW-7 have had seven consecutive sampling events below WQCC standards. Additionally, positive oxidation reduction potential (ORP) measurements and healthy concentrations of dissolved oxygen indicate an aerobic environment that is conducive to

natural attenuation of petroleum compounds.

# 5.0 Conclusions and Recommendations

AES installed soil borings and monitor wells (SB-16, SB-17/MW-9, and SB-18/MW-10) on November 4, 2020 and completed quarterly groundwater monitoring and sampling at the site on November 19, 2020. Vertical and lateral extents of the former excavation (2000) were confirmed with the installation of SB-16 and SB-17. Residual petroleum hydrocarbon contamination above the NMOCD action level was observed in SB-18 at 10 ft bgs (180 mg/kg DRO and 170 mg/kg MRO). However, SB-18 at 25 ft bgs had concentrations below laboratory detection limits for BTEX, TPH, and chlorides, therefore completing vertical delineation to the historic release.

AES recommends continuing to attempt to obtain a groundwater sample from MW-10 to confirm that groundwater is not impacted. Evaluating the effectiveness of limited and shallow injections (10 to 15 ft bgs) into soils in the area of SB-15 and SB-18 to treat residual petroleum hydrocarbon contamination may be warranted.

AES also recommends continued quarterly monitoring of wells that have not yet obtained eight consecutive sampling events with concentrations below applicable WQCC standards. Per NMOCD's recommendations, wells that have obtained eight consecutive events below WQCC standards will be scheduled for annual sampling.

#### 5.1 Scheduled Site Activities

AES has scheduled the following site activities during Q1 2021:

- Groundwater monitoring and sampling will be conducted in February or March 2021, and project notification for field activities will be provided to NMOCD at least two days before work is conducted.
- Sampling will include MW-4 through MW-7, MW-9 and MW-10; all other wells will be gauged for depth to groundwater.
- Laboratory analytical methods will include full list VOCs by USEPA Method 8260 and GRO/DRO by EPA Method 8015.
- 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,

Waird & Reve

David J. Reese Environmental Scientist

Edward C. That

Edward Hubbert Project Manager

Elizabeth V Mindly

Elizabeth McNally, P.E.

#### Tables

- 1. Cumulative Soil Analytical Results
- 2. Groundwater Measurements and Water Quality Data
- 3. Groundwater Laboratory Analytical Results

#### **Figures**

- 1. Topographic Site Location Map
- 2. Aerial Site Map
- 3. Soil Field Screening and Laboratory Analysis Results, November 2020
- 3A. Lateral Extents and Cumulative Soil Analytical Results
- **3B.** Geologic Cross Sections
- 4. Groundwater Elevations, November 2020
- 5. Groundwater Contaminant Concentrations, November 2020

#### Appendices

- A. Photograph Log
- B. NMOSE Well Permit WR-07 and Well Record WR-20 (MW-9 and MW-10)
- C. Soil Boring Logs/Well Construction Diagrams (SB-16, SB-17/MW-9, SB-18/MW-10)
- D. Monitor Well Development Records (MW-9 and MW-10)
- E. Water Sample Collection Forms (November 2020)
- F. Laboratory Analytical Reports (Hall Nos. 2011427 and 2011A71)
- Cc: Cory Smith (<u>cory.smith@state.nm.us</u>) New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

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

https://animasenvironmental.sharepoint.com/sites/bmgprojectsnon-spcc/Shared Documents/O-9 Release/Reports and Workplans/BMG O-9 Line Leak Well Installation & 4th Qtr GW Monitoring Report 123020 DR2 EH3 EM2.docx Tables

#### TABLE 1

# CUMULATIVE SOIL ANALYTICAL RESULTS

BMG Ojito Canyon (O-9) Release

#### Rio Arriba County, New Mexico

		Depth							TPH-	
		of			Ethyl-		TPH-GRO	TPH-DRO	MRO	
	Sample	Sample	Benzene	Toluene	benzene	Xylenes	C6-C10	С10-С28	C28-C36	Chloride
Sample ID	Date	(ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
N	MOCD Actio	on Level*	10 mg/	′kg Benzen	e (50 mg/l	kg BTEX)		100		600
SB-16 @ 10'	4-Nov-20	10	<0.024	<0.048	<0.048	<0.097	<4.8	17	77	<59
SB-16 @ 25'	4-Nov-20	25	<0.025	<0.049	<0.049	<0.099	<4.9	<9.5	<48	<60
SB-17/MW-9 @ 5'	4-Nov-20	5	<0.025	<0.049	<0.049	<0.098	<4.9	<9.8	<49	<60
SB-17/MW-9 @ 20'	4-Nov-20	20	<0.025	<0.049	<0.049	<0.098	<4.9	<8.7	<43	<60
SB-18/MW-10 @ 10'	4-Nov-20	10	<0.12	<0.23	<0.23	<0.46	<23	180	170	<60
SB-18/MW-10 @ 25'	4-Nov-20	25	<0.024	<0.048	<0.048	<0.096	<4.8	<9.4	<47	<60

**Notes:** < Analyte not detected above listed method limit

NA Not Analyzed

NE Not Established

Laboratory Analytical Methods: 8260 and 8015 \*NMAC 19.15.29.12E Table I

#### TABLE 2 SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA BMG Ojito Canyon (O-9) Release Rio Arriba County, New Mexico

						Water						
	Date	тос	Depth to	Depth to	NAPL	Level	Corrected		Specific	Dissolved		
Well ID	Measured	Elevation*	NAPL	Water	Thickness	Elevation	GW Elev.	Temp.	Conduct.	Oxygen	pН	ORP
		(ft amsl)	(ft)	(ft)	(ft)	(ft amsl)	(ft)	(°C)	(mS)	(mg/L)		(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-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-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
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

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#### TABLE 2 SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA BMG Ojito Canyon (O-9) Release Rio Arriba County, New Mexico

						Water						
	Date	тос	Depth to	Depth to	NAPL	Level	Corrected		Specific	Dissolved		
Well ID	Measured	Elevation*	NAPL	Water	Thickness	Elevation	GW Elev.	Тетр.	Conduct.	Oxygen	рН	ORP
		(ft amsl)	(ft)	(ft)	(ft)	(ft amsl)	(ft)	(°C)	(mS)	(mg/L)		(mV)
MW-3	19-Nov-20	7460.72		22.74		7437.98		NM	NM	NM	NM	NM
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 - In	sufficient Wa	iter	
MW-4	23-Dec-19	7507.10		16.97		7490.13			NM - In	sufficient Wa	iter	
MW-4	24-Mar-20	7507.10		16.92		7490.18			NM - In	sufficient Wa	iter	
MW-4	18-Jun-20	7507.10		16.80		7490.30			NM - In	sufficient Wa	iter	
MW-4	16-Sep-20	7458.66		16.82		7441.84			NM - In	sufficient Wa	iter	
MW-4	19-Nov-20	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 PRESEN	IT	
MW-5	05-Oct-01	7503.22	16.26	16.74	0.48	7486.48	7486.85		NM -	NAPL PRESEN	IT	
MW-5	03-Apr-19	7503.22	16.92	16.93	0.01	7486.29	7486.30		NM - NAF	PL SHEEN PRE	SENT	
MW-5	16-Aug-19	7503.22	17.74	17.74		7485.48			NM - NAF	PL SHEEN PRE	SENT	
MW-5	23-Dec-19	7503.22	19.25	19.25		7483.97			NM - NAF	PL SHEEN PRE	SENT	
MW-5	24-Mar-20	7503.22	17.83	17.83		7485.39			NM - NAF	PL SHEEN PRE	SENT	
MW-5	18-Jun-20	7503.22	18.40	18.40		7484.82			NM - NAF	PL SHEEN PRE	SENT	
MW-5	16-Sep-20	7456.42	20.13	20.13		7436.29			NM - NAF	PL SHEEN PRE	SENT	
MW-5	19-Nov-20	7456.42		20.74		7435.68			NM - In	sufficient Wa	iter	
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

#### TABLE 2 SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA BMG Ojito Canyon (O-9) Release Rio Arriba County, New Mexico

						Water						
	Date	тос	Depth to	Depth to	NAPL	Level	Corrected		Specific	Dissolved		
Well ID	Measured	Elevation*	NAPL	Water	Thickness	Elevation	GW Elev.	Тетр.	Conduct.	Oxygen	рН	ORP
		(ft amsl)	(ft)	(ft)	(ft)	(ft amsl)	(ft)	(°C)	(mS)	(mg/L)		(mV)
MW-6	19-Nov-20	7454.18		19.47		7434.71		11.3	0.509	2.18	6.82	149.0
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 - NAF	PL SHEEN PRE	SENT	
MW-7	16-Aug-19	NS		17.45					NM - NAF	PL SHEEN PRE	SENT	
MW-7	23-Dec-19	NS		18.93					NM - NAF	PL SHEEN PRE	SENT	
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 - NAF	PL SHEEN PRE	SENT	
MW-7	16-Sep-20	7455.96		19.16		7436.80			NM - NAF	PL SHEEN PRE	SENT	
MW-7	19-Nov-20	7455.96		21.17		7434.79		NM - NAPL SHEEN PRESENT				
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-9	19-Nov-20	7458.38		22.84		7435.54		9.2	0.485	5.24	7.07	184.4
MW-10	19-Nov-20	7453.59		27.12		7426.47			NM - In	sufficient Wa	ater	

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

	Date			Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analy	rtical Method	8021B/	8021B/	8021B/	8021B/	8015B/	8015B/	8015B/
		8260B	8260B	8260B	8260B	8015D	8015M/D	8015M/D
NM WQC	C 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

Page 1 of 3

Animas Environmental Services, LLC O-9 Release Labs 111920.xlsx

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#### TABLE 3 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG Ojito Canyon (O-9) Release Rio Arriba County, New Mexico

	Date			Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(μg/L)	(mg/L)	(mg/L)	(mg/L)
Analy	rtical Method	8021B/	8021B/	8021B/	8021B/	8015B/	8015B/	8015B/
		8260B	8260B	8260B	8260B	8015D	8015M/D	8015M/D
NM WQC	C 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-5	19-Nov-20			Not Sar	npled - Wel	l Dry	-	
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-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-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

Page 2 of 3

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#### TABLE 3 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG Ojito Canyon (O-9) Release Rio Arriba County, New Mexico

	Date			Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analy	tical Method	8021B/	8021B/	8021B/	8021B/	8015B/	8015B/	8015B/
		8260B	8260B	8260B	8260B	8015D	8015M/D	8015M/D
NM WQC	C STANDARD	5	1,000	700	620	NE	NE	NE

**NOTES:** NA = Not Analyzed

NE = Not Established

NS = Not Sampled

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil Range Organics

Figures







Released to Imaging: 10/19/2022 8:57:01 AM

		1												
	Sample ID	Sample Date	Depth of Sample (ft)	PID-OVM (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	TPH-GRO C6-C10 (mg/kg)	TPH-DRO C10-C28 (mg/kg)	TPH-MRO C28-C36 (mg/kg)	Chloride (mg/kg)	SOIL FIELD S	URE 3
	NMED Sol	il Screening L	evels (SSLs)	NE	0.0418	12.1	12.3	154		1,000		NE	NOVEN	1BER 2020
	SB-16 @ 10'	4-Nov-20	10	80	<0.024	<0.048	<0.048	<0.097	<4.8	17	77	<59	O-9 LINE LE	IONTIN-GREER EAK LOCATION
	SB-16 @ 25'	4-Nov-20	25	12	<0.025	<0.049	<0.049	<0.099	<4.9	<9.5	<48	<60	N½ OF NE¼, SEC RIO ARRIBA COL	TION 21, T26N, R1W JNTY, NEW MEXICO
	SB-17/MW-9 @ 5'	4-Nov-20	5	35	<0.025	<0.049	<0.049	<0.098	<4.9	<9.8	<49	<60		ninaga
	SB-17/MW-9@20	4-Nov-20	20	16	<0.025	<0.049	<0.049	<0.098	<4.9	<8.7	<43	<60		inimas invironmental
	SB-18/MW-10 @ 25'	4-Nov-20	25	0	<0.12	<0.23	<0.048	<0.096	<4.8	<9.4	<47	<60		ervices
	Notes:	<	Analyte no	ot detected a	bove listed r	nethod limit		.0.050					Fa	rmington, NM • Durango, CO
		NA	Not Analyz	ed										
		NE	Not Establi	ished									C. Lameman	December 22, 2020
		Laboratory	Analytical M	ethods: 8260	) and 8015								REVISIONS BY:	DATE REVISED:
MW-3		NMED SSL	source: NMS	SLs Table A-	1 (June 2019	Revised) DA	AF 20						C. Lameman	December 22, 2020
	· · · · · · · · · · · · · · · · · · ·		cal results in	ciuded per N	IVIAC 20.5.1	19.1914			- 78 . T			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D. Reese	December 22, 2020
			A			1. B		-		215			APPROVED BY:	DATE APPROVED:
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						C. C. MA		103	1000			X.	SOIL BORI (INSTALLE	NG LOCATION D NOVEMBER 2020)
		1.	<b>16</b>	- <b>\$</b> <sup>MW-8</sup>	<u>ب</u> الم	12		Adria.	ale l				— P — APPROXIN	ATE BURIED PIPELINE
			e san an a		·	w Den 1	and the second	and the second	6.4%		* 18 Jac			
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Page







Appendices

Appendix A

Photo 1: SB-16 boring location. *Photo taken 11/4/2020.* 



Photo 2: SB-17/MW-9 location. Photo taken 11/4/2020.



Photo 3: SB-18/MW-10 location in background. *Photo taken 11/4/2020*.



Appendix B

Received by OCD: 2/23/2021 11:11:49 AM

John R. D Antonio, Jr., P.E. State Engineer



Albuquerque Office 5550 SAN ANTONIO DR., NE ALBUQUERQUE, NM 87109

# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 679016 File Nbr: RG 99068

Sep. 22, 2020

KAREN LUPTON US FOREST SERVICE 624 E COMANCHE ST. FARMNGTON, NM 87401

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- \* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- \* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- \* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- \* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Daniel Driscoll (505)383-4000

Enclosure

explore

John R. D Antonio, Jr., P.E. State Engineer Released to Imaging: 10/19/2022 8:57:01 AM

Albuquerque Office 5550 SAN ANTONIO DR., NE

of the Store Case	V ME	XICO OFFICE OF	THE STATE ENGINEER	STHE STATE							
Interstate Stream Commission	WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT (check applicable box):										
	Fc	r fees, see State Engineer webs	ite: http://www.ose.state.nm.us/								
Purpose:		Pollution Control And/Or Recovery	Ground Source Heat Pur	ιp							
Exploratory Well (Pump test)		Construction Site/Public Works Dewatering	Other(Describe):								
Monitoring Well		Mine Dewatering									
A separate permit will be required	to app	ly water to beneficial use reg	ardless if use is consumptive or nonconsu	mptive.							
Temporary Request - Request	ed Star	t Date: April 10, 2020	Requested End Date: Unknow	own							
Plugging Plan of Operations Subn	nitted?	🗌 Yes 🔳 No									

File No.

#### 1. APPLICANT(S)

Name: Benson-Montin-Greer Drilling C	orp. (Site: O-9 Pipeline Release)	Name: United States Forest Service					
Contact or Agent:	check here if Agent	Contact or Agent:	check here if Agent				
Zach Stradling		Karen Lupton					
Mailing Address: 4900 College Blvd.		Mailing Address: 624 E. Comanche St.					
City: Farmington		City: Farmington					
State: NM	Zip Code: 87402	State: NM	Zip Code: 87401				
Phone: 505-325-8874 work Phone (Work):	🗌 Home 🔲 Cell	Phone: 505-564-2281 work Phone (Work):	Home Cell				
E-mail (optional): zstradling@bmgdrilling.com		E-mail (optional): klupton@animasenvironmental.	com				

		Trans Description (optiona	al):				
ion on		File No.: 26 980	68	Trn. No.:		Receipt No.:	
	2020	FOR OSE INTERNAL US	E	Application for	r Permit, Form WR-0	7, Rev 11/17/16	
	SEP						
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Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

Itat/Long - WGS44).         District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.                MM State Plane (NAD83) (Feet)	Location Required: Coordin	ato location must h	a namented in MR	
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.         M State Plane (NAD83) (Feet)       UTM (NAD83) (Meters)         NM East Zone       Zone 12N         Well Number (if known):       X or Easting or Longitude:         Y or Northing       Provide if known:         - NW 49       -106°56'37.81"         36°28'33.08"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106°56'36.33"         MU       -106°56'36.33"         MU       If yes, how m	(Lat/Long - WGS84).	iate location must p	e reported in Mi	/ State Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude
Image: NM State Plane (NAD83) (Feet)       UTM (NAD83) (Meters)       Image: Lat/Long (WGS84) (to the nearest 1/10 <sup>th</sup> of second)         Image: NM West Zone       Zone 12N       1/10 <sup>th</sup> of second)         Image: NM Central Zone       Y or Rasting or Longitude:       Provide if known:         Well Number (if known):       X or Easting or Longitude:       Y or Northing or Latitude:       Provide if known:         MW-9       -106*56'37.81"       36*28'33.08"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MOTE: If more well locations need to be described, complete form WR-06 (Attachment 1 – POD Descriptions)       Additional well descriptions are attached: Use may of types, how many.         Other description relating well to common landmarks, streets, or other:       If yes, how many.       If yes, how many.         Well is on land owned by: Schmitz Ranch - see attached permission for access       Well is on land owned by: Schmitz Ranch - see attached permi	District II (Roswell) and Dis	trict VII (Cimarron) o	ustomers, prov	ide a PLSS location in addition to above.
Weil Number (if known):       X or Easting or Longitude:       Y or Northing or Latitude:       Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Lot, Block & Subdivision; OR         MW-9       -106*56'37.81"       36*28'33.08"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106*56'36.33"       36*28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions) If yes, how many       If yes, how many	NM State Plane (NAD83) NM West Zone NM East Zone NM Central Zone	(Feet) [	JTM (NAD83) (M ]Zone 12N ]Zone 13N	eters)  Exact Lat/Long (WGS84) (to the nearest 1/10 <sup>th</sup> of second)
MW-9       -106°56'37.81"       36°28'33.08"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MU-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MU-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MU-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MU-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MU-10       -106°56'36.33"       -106°56'36.33"       -106°56'36.33"         NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)       -106'56'36.30"         Additional well description relating well to common landmarks, streets, or other:       if yes, how many	Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
MW-10       -106°56'36.33"       36°28'32.60"       NW1/4 NE1/4, Sec 21, T26N, R1W         MW-10       Image: Second Se	MW-9	-106°56'37.81"	36°28'33.08"	NW1/4 NE1/4, Sec 21, T26N, R1W
NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)         Additional well descriptions are attached:         Yes       No         If yes, how many         Other description relating well to common landmarks, streets, or other:         on the south side of NM Highway 520; see attached maps - 1) Site Location Map; 2) Site Map with well locations.         Well is on land owned by: Schmitz Ranch - see attached permission for access         Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached?         If yes, how many8	MW-10	-106°56'36.33"	36°28'32.60"	NW1/4 NE1/4, Sec 21, T26N, R1W
NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)         Additional well descriptions are attached:       Yes       No       If yes, how many         Other description relating well to common landmarks, streets, or other:       on the south side of NM Highway 520; see attached maps - 1) Site Location Map; 2) Site Map with well locations.         Well is on land owned by: Schmitz Ranch - see attached permission for access         Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached?       Yes       No         If yes, how many8				
Other description relating well to common landmarks, streets, or other:         on the south side of NM Highway 520; see attached maps - 1) Site Location Map; 2) Site Map with well locations.         Well is on land owned by: Schmitz Ranch - see attached permission for access         Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? In Yes In No If yes, how many8         Approximate depth of well (feet): all approximately 25 feet       Outside diameter of well casing (inches): 2-inch nominal PVC         Driller Name: Rodgers & Co., Inc.       Driller License Number: 225	NOTE: If more well locations Additional well descriptions	s need to be describ are attached: □ \	<mark>ed, complete fo</mark> /es 🔳 No	rm WR-08 (Attachment 1 – POD Descriptions) If yes, how many
on the south side of NM Highway 520; see attached maps - 1) Site Location Map; 2) Site Map with well locations. Well is on land owned by: Schmitz Ranch - see attached permission for access Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? I Yes No If yes, how many8 Approximate depth of well (feet): all approximately 25 feet Driller Name: Rodgers & Co., Inc. Driller License Number: 225	Other description relating well	to common landmark	s, streets, or othe	er:
Well is on land owned by: Schmitz Ranch - see attached permission for access         Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? In Yes Information: Note: If yes, how many8         Approximate depth of well (feet): all approximately 25 feet       Outside diameter of well casing (inches): 2-inch nominal PVC         Driller Name: Rodgers & Co., Inc.       Driller License Number: 225	on the south side of NM Highwa	ay 520; see attached	maps - 1) Site Lo	cation Map; 2) Site Map with well locations.
Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached?       Yes       No         If yes, how many       8       0utside diameter of well casing (inches): 2-inch nominal PVC         Driller Name: Rodgers & Co., Inc.       Driller License Number: 225	Well is on land owned by: Sch	mitz Ranch - see attac	ched permission	for access
Approximate depth of well (feet): all approximately 25 feet       Outside diameter of well casing (inches): 2-inch nominal PVC         Driller Name: Rodgers & Co., Inc.       Driller License Number: 225	Well Information: NOTE: If m If yes, how many8	ore than one (1) we	ll needs to be de	escribed, provide attachment. Attached? 🔳 Yes 🗌 No
Driller Name: Rodgers & Co., Inc. Driller License Number: 225	Approximate depth of well (fee	t): all approximately 2	5 feet	Outside diameter of well casing (inches): 2-inch nominal PVC
	Driller Name: Rodgers & Co., I	nc.		Driller License Number: 225

#### 3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Two groundwater monitor wells MW-9 and MW-10 will be installed by Rodgers & Co. as part of ongoing remedial activities under an Abatement Plan (NMOCD). Wells will be advanced to 25 feet bgs and completed as a 2-inch diameter well with screened interval from 10-25 ft. Purpose of the wells is for groundwater monitoring and also removal of non-aqueous phase liquids (NAPL); no removal of groundwater has been planned. Existing monitor wells include MW-1 through MW-8.

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 FOR OSE INTERNAL USE
 Application for Permit, Form WR-07

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Page 2 of 3

Received by OCD: 2/23/2021 11:11:49 AM



NEW MEXICO OFFICE OF THE STATE ENGINEER



#### ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:			b. Information on Attachment(s):		
Move-From Point of Di	version(s)		Number of	points of diversion involved in the application: 10	
Move-To Point of Diver		Total numb	per of pages attached to the application: 1		
Surface Point of Diversion	OR	Well			
Name of ditch, acequia,					
Stream or water course:					
Tributary of:					
c. Location (Required): Required: Move to POD location	coordinate must l	be either New Mex	rico State Pla		
NM State Plane (NAD83) (feet) NM West Zone	UTM (NAD83) (meters)	I Lat/I	Long-	OTHER (allowable only for move-from descriptions - see application form for format)	
NM Central Zone	Zone 13N	(WGS84 1/10 <sup>th</sup> of	1) second	<ul> <li>Hydrographic Survey, Map &amp; Tract</li> <li>Lot, Block &amp; Subdivision</li> <li>Grant</li> </ul>	
POD Number:	X or Longitude	Y or Latit	tude	Other Location Description:	
MW-1	-106°56'37.34'	' 36°28'3	33.63"	NW1/4 NE1/4, Sec 21, T26N, R1W	
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:	
MW-2	-106°56'37.27"	36°28'3	33.37"	NW1/4 NE1/4, Sec 21, T26N, R1W	
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:	
MW-3	-106°56'39.88"	36°28'3	4.81"	NW1/4 NE1/4, Sec 21, T26N, R1W	
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:	
MW-4	-106°56'38.19"	36°28'3	3.52"	NW1/4 NE1/4, Sec 21, T26N, R1W	
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:	
MW-5	-106°56'36.62"	36°28'3	2.87"	NW1/4 NE1/4, Sec 21, T26N, R1W	
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:	
MW-6	-106°56'35.46"	36°28'3	2.93"	NE1/4 NE1/4, Sec 21, T26N, R1W	
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:	
MW-7	-106°56'36.53"	36°28'3	2.87"	NW1/4 NE1/4, Sec 21, T26N, R1W	
POD Number:	X or Longitude	Y or Latitu	ude	Other Location Description:	
MW-8	-106°56'35.71"	36°28'3	4.05"	NW1/4 NE1/4, Sec 21, T26N, R1W	
POD Number:	X or Longitude	Y or Latitu	ude	Other Location Description:	

FOR OSE INTERNAL USE

File Number:

Form wr-08 POD DESCRIPTIONS - ATTACHMENT 1

Trn Number:

Trans Description (optional):

K6-99068

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4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Explorator	Dellution Control I/ D		
Include a	Include a plan for pollution	Construction	Mine De-Watering:
description of	Control/recovery that includes the	De-watering:	Include a plan for pollution
any proposed	following:	I linclude a description of the	control/recovery, that includes the following:
pump tost if	A depariation of the model for the	proposed dewatering	A description of the need for mine
pump test, il	A description of the need for the	operation,	dewatering.
applicable.	Dilution control or recovery operation.	L The estimated duration of	☐ The estimated maximum period of time
	time for annulation fill	the operation,	for completion of the operation.
	ume for completion of the operation.	☐ The maximum amount of	The source(s) of the water to be diverted.
	The annual diversion amount.	water to be diverted,	The geohydrologic characteristics of the
	I ne annual consumptive use	A description of the need	aquifer(s).
		for the dewatering operation,	The maximum amount of water to be
	I ne maximum amount of water to be	and,	diverted per annum.
1	diverted and injected for the duration of	A description of how the	The maximum amount of water to be
	the operation.	diverted water will be disposed	diverted for the duration of the operation.
Man Manlar	I he method and place of discharge.	of.	The quality of the water.
Monitoring:	I he method of measurement of	Ground Source Heat Pump:	The method of measurement of water
Include the	water produced and discharged.	Include a description of the	diverted.
reason for the	I The source of water to be injected.	geothermal heat exchange	The recharge of water to the aguifer.
monitoring	I ne method of measurement of	project,	Description of the estimated area of
well, and,	water injected.	The number of boreholes	hydrologic effect of the project.
	L The characteristics of the aquifer.	for the completed project and	The method and place of discharge.
duration	L The method of determining the	required depths.	An estimation of the effects on surface
of the planned	resulting annual consumptive use of	The time frame for	water rights and underground water rights
monitoring.	water and depletion from any related	constructing the geothermal	from the mine dewatering project.
	stream system.	heat exchange project, and,	A description of the methods employed to
	Proof of any permit required from the	The duration of the project.	estimate effects on surface water rights and
	New Mexico Environment Department.	Preliminary surveys, design	underground water rights.
	An access agreement if the	data, and additional	Information on existing wells, rivers.
	applicant is not the owner of the land on	information shall be included to	springs, and wetlands within the area of
	which the pollution plume control or	provide all essential facts	hydrologic effect.
	recovery well is to be located.	relating to the request.	

#### ACKNOWLEDGEMENT

Zach Stradling, Benson-Montin-Greer Drilling Corp. I, We (name of applicant(s))

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

🗹 approved

Applicant Signal

**Applicant Signature** 

denied

#### ACTION OF THE STATE ENGINEER

This application is:

partially approved

provided it is not exercised to the detriment of any others having existing rights, and is not contract by the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approved with the conservation of water in New

Witness my hand and seal this 22 da	vot Sectember 20 75	THE STATE P
John R. P'ANTONio J. +	E , State Engineer	
By: L Tucher	Rick	
Title: Vater Response Print S0:9 Wd 91 d35 0202	Professional III	"Billiness
STATE ENGINEERS OFFICE SANTA FE, NEW MEXICO	FOR OSE INTERNAL USE	Application for Permit, Form WR-07
	File No.: 2 6 99068	Trn No.:

Page 3 of 3
#### Received by OCD: 2/23/2021 11:11:49 AM

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Evoloratoru	Dellution Control - 1/ D		
	Foliution Control and/or Recovery:	Construction	Mine De-Watering:
	Include a plan for pollution	De-Watering:	Include a plan for pollution
description of	control/recovery, that includes the	☐ Include a description of the	control/recovery, that includes the following:
any proposed	following:	proposed dewatering	A description of the need for mine
pump test, it	A description of the need for the	operation,	dewatering.
applicable.	pollution control or recovery operation.	The estimated duration of	The estimated maximum period of time
	The estimated maximum period of	the operation,	for completion of the operation.
	time for completion of the operation.	☐ The maximum amount of	The source(s) of the water to be diverted.
	The annual diversion amount.	water to be diverted,	The geohydrologic characteristics of the
	The annual consumptive use	A description of the need	aquifer(s).
	amount.	for the dewatering operation,	The maximum amount of water to be
	The maximum amount of water to be	and,	diverted per annum.
	diverted and injected for the duration of	A description of how the	The maximum amount of water to be
	the operation.	diverted water will be disposed	diverted for the duration of the operation
	The method and place of discharge.	of.	The quality of the water
Monitoring:	The method of measurement of	Ground Source Heat Pump:	The method of measurement of water
Include the	water produced and discharged.	Include a description of the	diverted.
reason for the	The source of water to be injected.	geothermal heat exchange	The recharge of water to the aquifer
monitoring	The method of measurement of	project.	Description of the estimated area of
well, and,	water injected.	The number of boreholes	hydrologic effect of the project
🔳 The	The characteristics of the aguifer.	for the completed project and	The method and place of discharge
duration	The method of determining the	required depths	An estimation of the effects on surface
of the planned	resulting annual consumptive use of	The time frame for	Water rights and underground water rights
monitoring.	water and depletion from any related	constructing the geothermal	from the mine downtering project
Ű	stream system.	heat exchange project and	A description of the methode employed to
	Proof of any permit required from the	The duration of the project	estimate offects on surface water rights and
	New Mexico Environment Department	Preliminant surveys docion	underground water righte
	An access agreement if the	data and additional	Interground water rights.
	applicant is not the owner of the land on	information shall be included to	springs, and watlands within the area of
	which the pollution plume control or	provide all essential facto	bydrologio offeet
	recovery well is to be located	relating to the request	nyarologic ellect.
		relating to the request.	

#### ACKNOWLEDGEMENT

I, We (name of applicant(s)), United States Forest Service.

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

approved

Applicant Signature

**Applicant Signature** 

#### ACTION OF THE STATE ENGINEER

This application is:

partially approved

🗌 denied provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the bonservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval whether the subject to the attached conditions of approval whether the subject to the attached conditions of approval whether the subject to the attached conditions of approval whether the subject to the attached conditions of approval whether the subject to the attached conditions of the subject to the subject to the attached conditions of the subject to the subject to the attached conditions of the subject to the sub

Witness my hand	d and seal	this 22	day of Septe Jr FE	, State Enginee	A CONTRACTOR	THE STATE Engine	
By: Construction of the second	Prosher 2:11 KV	SOZO ZEB 55	Water R	Print Print	ck la	School States	TT
Print 00 ∄01	EM MEXH EEKS OLE	BNIONE ENGINE M.ETATR	FOR OSE INT File No.:	TERNAL USE		Applicati Trn No.:	on for Permit, Form WR-07

#### NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

#### SPECIFIC CONDITIONS OF APPROVAL

- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6D Well pod\_basin pod\_nbr pod\_suffix shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging, but no later than
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

Trn Desc: RG 99068

File Number: RG 99068 Trn Number: 679016

#### NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

# SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- LOG The Point of Diversion RG 99068 POD1 must be completed and the Well Log filed on or before 09/22/2021.
- LOG The Point of Diversion RG 99068 POD10 must be completed and the Well Log filed on or before 09/22/2021.
- LOG The Point of Diversion RG 99068 POD2 must be completed and the Well Log filed on or before 09/22/2021.
- LOG The Point of Diversion RG 99068 POD3 must be completed and the Well Log filed on or before 09/22/2021.
- LOG The Point of Diversion RG 99068 POD4 must be completed and the Well Log filed on or before 09/22/2021.

Trn Desc: RG 99068

File Number: RG 99068 Trn Number: 679016

page: 2

#### NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

# SPECIFIC CONDITIONS OF APPROVAL (Continued)

- LOG The Point of Diversion RG 99068 POD5 must be completed and the Well Log filed on or before 09/22/2021.
- LOG The Point of Diversion RG 99068 POD6 must be completed and the Well Log filed on or before 09/22/2021.
- LOG The Point of Diversion RG 99068 POD7 must be completed and the Well Log filed on or before 09/22/2021.
- LOG The Point of Diversion RG 99068 POD8 must be completed and the Well Log filed on or before 09/22/2021.
- LOG The Point of Diversion RG 99068 POD9 must be completed and the Well Log filed on or before 09/22/2021.

#### ACTION OF STATE ENGINEER

Notice of Intention Rcvd:		Date Rcvd. Corrected:
Formal Application Revd:	09/16/2020	Pub. of Notice Ordered:
Date Returned - Correction:		Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 22 day of <u>Sep</u> A.D., 2020 NG/A John R. D Antonio **h**te Engineer By: Rick Lusher

Trn Desc: RG 99068

File Number: RG 99068 Trn Number: 679016

page: 3

From:	Eddie Hubbert
To:	Karen Lupton
Subject:	Fwd: Authorization for O-9 Release site
Date:	Thursday, August 13, 2020 4:11:13 PM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png

Sent from my Verizon, Samsung Galaxy smartphone Get <u>Outlook for Android</u>

BMG Multi-Day Exemption Imb 2020.docx Industrial Fire Plan Template Guidelines 022613 .doc

From: Gore, Larry D -FS <larry.gore@usda.gov>
Sent: Wednesday, July 8, 2020 4:07:54 PM
To: Eddie Hubbert <ehubbert@animasenvironmental.com>; Zach Stradling (zstradling@bmgdrilling.com) <zstradling@bmgdrilling.com>
Subject: Authorization for O-9 Release site

Good afternoon Eddie and Zach,

Here is the authorization from the Cuba RD for the O-9 soil/water testing.

As noted in the exemption letter, please notify me on the days you plan on being in the field.

Thanks, Larry Gore

From: Prewitt, Randal -FS <randal.prewitt@usda.gov>
Sent: Wednesday, July 8, 2020 3:23 PM
To: Bennett, Jamie -FS <jamie.bennett@usda.gov>; Gore, Larry D -FS <larry.gore@usda.gov>
Subject: Exemption

Larry here is the exemption form that they need to have with them while working. Also they do have to follow the Fire Industrial Plan; however, we are giving them the exemption to work during the hours of 10:00 am till 6:00 pm. Let me know if you have questions. thanks, randy



Randy Prewitt District Fire Management Officer Forest Service Santa Fe National Forest Cuba Ranger District p: 575-289-3264 c: 936-900-4126 f: 575-289-0232

randal.prewitt@usda.gov

Page 42 of 97

P.O. Box 130 Cuba, NM 87144

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# **Stage 2/Forest Closure Exemption Permit**

Santa Fe National Forest

July 8, 2020

Date of Authorization:	7/8/2020	Expires: Concurrently when stage 2 fire restrictions
or forest closures are re	scinded.	A start stuge 2 and restrictions

Person(s) authorized for exemption: Benson-Montin-Greer Drilling Co employees and contractors associated with Benson-Montin-Greer Drilling Co.

**Purpose:** This exemption permit allows Benson-Montin-Greer Drilling Co employees and contractors associated with Benson-Montin-Greer Drilling Co to continue routine well operations and maintenance.

Area authorized: All lands administered by the Santa Fe National Forest.

#### Mandates:

- When you are out on the Santa Fe National Forest, Stage II Fire Restrictions apply.
- Do not park on grass or any vegetation that could ignite.
- Smoking allowed only in a vehicle or outside in an area with a 3 feet diameter that is barren of any flammable materials.
- Follow the Fire Industrial Plan provided, we are under Stage C in the plan.
- When ground disturbing activities stop for the day you must remain on site for 30 minutes for a fire watch.
- Field going personnel of Benson-Montin-Greer Drilling Co will notify Santa Fe Dispatch immediately should a wildfire occur or be detected (505-438-5600).
- You do need to contact Larry Gore to let him know when you are working in the field at the following email: Larry.gore@usda.gov

This document serves as your permission to conduct authorized activities within the Santa Fe National Forest. You are required to have a copy of this document and present it as proof of authorization to any Forest Officer upon request. This exception does NOT authorize any use other than stated in description above.

Information on current fire restrictions on public lands in the Southwest can be obtained by calling 1-877-864-6985 or Santa Fe National Forest (505) 438-5300.

/s/ Jamie M. Bennett	7/8/2020
Jamie M. Bennett Cuba District Ranger	Date

# **PURPOSE**

The purpose of fire restrictions is to reduce the risk of human-caused fires during periods of high fire danger and/or burning conditions. The intent of these guidelines is to provide authorized users with the information they need to ensure their operations conform to the Industrial Fire Precaution Plan in the likely event that fire restrictions are implemented during critical fire season. For the purpose of these guidelines, authorized users include any permit holder, leasee, contractor, subcontractor and other user, engaged in permitted operations on National Forest Lands.

When operating on National Forest Lands, it is incumbent on the permitted user to know the current Industrial Fire Precaution Plan and to take the appropriate actions to meet the mitigation measures in these guidelines. In addition, it is also incumbent on the authorized user to inform any and all of their subordinates (contractors, subcontrators, etc...) of these precautions and to ensure that all requirements are being met.

# **GENERAL FIRE PRECAUTIONARY MEASURES**

## **COMMUNICATIONS**

Authorized users shall ensure a serviceable telephone, radio-telephone or radio communication system is available to provide prompt and reliable communications between the authorized user's operations and the Forest Service in the the event of a wildland fire ignition.

## FIRE TOOLS

Authorized users shall furnish and maintain, in good working order, fires tools to be used only for suppressing wildland fires. Each operation shall be provided with one firefighting tool per person to equip all personnel engaged in authorized user's operations. Approved firefighting tools may include the following: pulaski; McLeod tool; long handled shovel.

## FIRE TOOLS ON EQUIPMENT

Passenger carrying vehicles, including light pickup trucks and all terrain vehicles, shall be equipped with one (1) long-handled round pointed shovel and one (1) ABC dry chemical fire extinguisher not less than 2 1/2 pounds capacity. Each internal combustion fuel carrying piece of equipment (dumptruck, dozer, excavator, backhoe, etc...) shall be equipped with one long-handled round-pointed shovel, and one 5-pound capacity ABC dry chemical fire extinguisher. Shovels and fire extinguishers shall be so mounted as to be readily reached from the ground.

#### SPARK ARRESTERS AND MUFFLERS

Authorized user will ensure that each internal combustion engine shall be equipped with a spark arrester qualified and rated under USDA Forest Service Standard (Spark Arrester Guide) 5100-1a or the latest revision of Society of Automotive Engineers "medium size engine, SAE recommended practice J350" unless it is:

(a) Equipped with a turbine-driven exhaust supercharger such as the turbocharger. There shall be no exhaust bypass.

(b) A multi-position engine, such as on power saws purchased after 6/30/77 which must meet the performance levels set forth in the Society of Automotive Engineers "multi-positioned small engine exhaust fire ignition standard, SAE recommended practice J335B" as now or hereafter amended. Those purchased prior to the above date shall be equipped with an approved spark arrester/muffler containing a 0.023 inch mesh screen in good condition.

(c) A passenger carrying vehicle or light truck, or medium truck up to 40,000 GVW, used on roads and equipped with a factory designed muffler and an exhaust system in good working condition.

(d) A heavy duty truck, such as a dump truck, or other vehicle used for commercial hauling, used only on roads and equipped with a factory designed muffler and with a vertical stack exhaust system extending above the cab.

Exhaust equipment described in this Subsection, including spark arresters and mufflers, shall be properly installed and constantly maintained in serviceable condition.

## **POWERED HANDTOOLS**

During periods of use, each powered handtool operator shall have readily available for use, one long-handled round-pointed shovel and one chemical-pressurized ABC dry chemical fire extinguisher of not less than 8-ounce capacity by weight. Muffler, extinguisher, and shovel shall be maintained in good working order at all times. Fueling or refueling of a powered handtool shall be done in an area which has been completely cleared of material which will carry fire.

Powered handtools shall be moved at least 10 feet from the place of fueling or refueling before starting.

#### GAS AND OIL STORAGE AND SERVICE AREAS

The location of equipment service areas and gas and oil storage areas shall be approved in writing by the permit adminstrator. All areas shall be cleared of brush, litter, grass or other flammable debris for a radius of 50 feet.

#### **BURNING OF REFUSE**

No slash or other debris, such as that resulting from clearing on right-of-way, shall be burned without the written consent of the Forest Service.

#### **BLASTING**

Use of fuses in blasting shall not be permitted. A long-handled round-pointed shovel and at least five gallons of water for fire fighting purposes shall be available at all times. A fire guard must remain on the blasting site for a minimum of one hour after blasting operations have concluded.

#### WELDING

An area of sufficient size but not less than a 10 foot radius shall be cleared down to mineral soil before welding operations are started. Prior to welding, authorized user shall have available a round-pointed long-handled shovel, at least 5-gallons of water, and a 5-pound fire ABC dry chemical extinguisher at each welding site. A fire guard must remain on the welding site for a minimum of one hour after welding operations have concluded.

# SPECIFIC FIRE PRECAUTIONARY MEASURES

#### **EMERGENCY FIRE PRECAUTION SCHEDULE**

FIRE RESTRICTION	N/CLOSURE "STAGE"
<b>"STAGED" RESTRICTION LEVELS</b>	INDUSTRIAL FIRE PRECAUTION PLAN
NO RESTRICTIONS	A
STAGE I	В
STAGE II	С
PARTIAL/FOREST CLOSURE **	D
RED FLAG WARNING	D
(Issued by National Weather Service)	

#### **\*\* Partial Forest Closure:**

Project areas which are outside the boundaries of the partial forest closure may continue to operate under Industrial Fire Precaution Plan "C" operating criteria as agreed upon between the Permit Administrator and Purchaser in writing.

Project areas within the boundaries of the proclaimed partial forest closure area are to operate under Industrial Fire Precaution Plan "**D**".

Staged restriction levels are determined by the appropriate Forest Line Officer in consultation with the Forest Fire Management Officer and Permit Administrator. The appropriate Forest Line

# **INDUSTRIAL FIRE PLAN GUIDELINES**

# For

# **AUTHORIZED USERS**

Officer may adjust the predicted Industrial Fire Precaution Plan for local weather conditions within a Project Area. Changes in the predicted Industrial Fire Precaution Plan shall be agreed to in writing.

# **INDUSTRIAL FIRE PRECAUTION PLAN – DESCRIPTION**

Authorized user will restrict operations in accordance with the attached Emergency Fire Precaution Schedule:

A - Normal Fire Precautions - No fire guard required except for welding and blasting operations.

B - Normal Fire Precautions - Authorized user will provide fire guard.

C - All power equipment use as well as blasting and welding operations will shut down from 10:00 am until 6:00 pm Mountain Standard Time. Operations on mineral soil involving activities such as road excavation, watering, grading, surfacing, rock crushing, and/or other equipment maintenance may continue. Authorized user will provide fire guard.

**D** - Shutdown all operations; except operations on mineral soil involving road excavation, watering, grading, gravel surfacing, and rock crushing may continue with special Forest Service permit. Blasting and welding are prohibited. Authorized user will provide fire guard.

## **FIRE GUARDS**

To prevent, detect, and suppress wildland fire, authorized users shall provide a fire guard at each operating area where power-driven equipment and tools have been operated during the day. The fire guards shall constantly perform their duties during operating hours and for half an hour after the work stops for the day, when the Fire Precaution Plan is Plan "B", "C", or "D".

A fire guard on one operating area shall satisfy the requirements on adjacent areas if the travel time with available transportation is not in excess of ten (10) minutes to any of the other areas requiring such service and provided the fire fuard patrols all area where authorized user's activities occurred.

Each fire guard shall be vigilant, able and prepared to actions to prevent, detect, and report any wildland fires and to promptly and efficiently take suppression action with available required firefighting equipment and personnel on any wildland fire that starts on project area. Each fire guard shall be equipped with a vehicle and a fire tool cache consisting of a cache box with a complement of fire tools maintained in serviceable condition. Approved firefighting tools may include the following: Pulaski; McLeod: long handles round pointed shovel. The fire guard will also carry at least 25 gallons of water for firefighting purposes.

## **RED FLAG EVENTS**

A "Red Flag Event" by definition, is a combination of environmental factors that can lead to extreme wildland fire behavior. The criteria for a Red Flag Event include a combination of sustained high winds, low relative humidity, and dry fuels. The thresholds for Red Flag Events are established by the local National Weather Service office. Red Flag Events are categorized in the following order:

- FIRE WEATHER WATCH is issued to alert the possibility of the development of conditions that would lead to a Red Flag Alert.
- RED FLAG WARNING is issued to warn of a predicted, impending or ongoing event that will meet the criteria of a Red Flag Alert within the next 24 hour period. This warning will generally precede a full alert.
- RED FLAG ALERT is the most critical stage and implemented when conditions are extreme

When a Red Flag Alert is issued by the National Weather Service, all authorized user operations will adhere to Industrial Fire Precaution Plan "D" and will shut down operations until the Red Flag Alert is rescinded.

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#### SOUTHWEST INTERAGENCY FIRE RESTRICTION AND CLOSURE MASTER OPERATING PLAN INDUSTRIAL FIRE PLAN GUIDELINES For AUTHORIZED USERS

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DLLARS 디 CASH: YCHECK NO.: 13633	C. Well Driller Fees       1. Application for Well Driller's License       \$ 50.00          2. Application for Renewal of Well       \$ 50.00          2. Application for Renewal of Well       \$ 50.00	D. Reproduction of Documents @ 25¢/copy \$	E. Certification \$	F. *Credit Card Convenience Fee \$	G. Other \$		
DATE: 8-34-3030 FILE NO.: 14- clotland chland chla	B. Surface Water Filing Fees         1. Change of Ownership of a Water Right \$ 5.00         2. Declaration of Water Right       \$ 10.00         3. Amended Declaration       \$ 25.00         4. Application to Change Point of Diversion	and Place and/or Purpose of Use from Surface Water to Surface Water \$ 200.00 5. Application to Change Point of Diversion and Place and/or Purpose of Use from	Ground Water to Surface Water \$ 200.00 6. Application to Change Point of \$ 100.00	<ul> <li>Application to Clarige Flace and/or</li> <li>Purpose of Use</li> <li>8. Application to Appropriate</li> <li>9. Notice of Intent to Appropriate</li> </ul>	<ul> <li>10. Application for Extension of Time \$ 50.00</li> <li>11. Supplemental Well to a Surface Right \$ 100.00</li> <li>12. Return Flow Credit \$ 100.00</li> <li>13. Proof of Completion of Works \$ 25.00</li> <li>14. Proof of Annitration of Warter to</li> </ul>	Isometricial Use       \$ 25.00         Isometricial Use       \$ 100.00         Isometricial Use       \$ 10.00         Impoundment       \$ 10.00         Impoundment       \$ 10.00	() All fees are non-refundable.
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OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – AZTEC OFFICE

Page 51 of 97



# WELL RECORD & LOG

# OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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Page 53 of 97

# WELL RECORD & LOG

# OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD N	(O. (WELL NO	.)	WE	LL TAG ID NO.		OSE FILE NO	(S).		
NO	RG-9	9068 м	NI-10 ANIM	15 384 N	A		RG-90	1063		
ITA	WELL OW	NER NAME(S)					PHONE (OPT	IONAL)		
l ŭ	ZACH	STRAD	LING				(505)3	25-8874		
TI	WELL OW	NER MAILING	ADDRESS				CITY		STATE	ZIP
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E.	DESCRIPT	ION RELATIN	G WELL LOCATION T	O STREET ADDRESS A	ND COMMON LAND	MARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WI	HERE AVAILABLE	
-	SOUTI	1 SIDE	E OF NM	HIGHWA	y 520					
	LICENSE N	0.	NAME OF LICENSEI	D DRILLER	7			NAME OF WELL DE	NILLING COMPANY	
	พดแ	86	RODNE	Y HAMMI	ER			ENVIRO-	DRILL INC	
	DRILLING	STARTED	DRILLING ENDED	DEPTH OF COMPLE	TED WELL (FT)	BORE HOL	E DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FI	Γ)
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	COMPLETE	D WELL IS:	ARTESIAN	DRY HOLE	SHALLOW (UNC	ONFINED)		STATIC WATER LE	VEL IN COMPLETED W	ELL (F1)
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ORN	DRILLING	AETHOD:			CABLE TOOL	M OTHER	C-SPECIFY:	louon s	TEM AUGE	R
INF	DEPTH	(feet bgl)	BORE HOLE	CASING MAT	ERIAL AND/OR	CA	SING	CASING	CASING WALL	SLOT
Ŋ	FROM	то	DIAM	(include each c	asing string, and	CONN	ECTION YPE	INSIDE DIAM.	THICKNESS	SIZE (inches)
CAS			(incnes)	note section	ns of screen)	(add coupli	ng diameter)	(inclics)	(	
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IAI	FROM	то	DIAM. (inches)	GRAVEL P	ACK SIZE-RANGE	BY INTER	VAL	(cubic feet)	PLACEN	MENT
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WW	6	8'	<u> </u>	3/2" HOLI	E PLUG			1.0	TRIMM	IE
AR	8'	25'	8"	10-20 51	IICA SANI	)		<b></b>	TRIMM	IE .
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	DITERS		II					WELL RECORD &	I OG (Version 04/2	
FUR	JSE INTERI NO.	NAL USE			POD NO.		TRN N	0.	- 100 ( Feision 04/3	
LOCA	TION		<u></u>		I	w	ELL TAG ID	NO.	PAGE	1 OF 2

Received by OCD: 2/23/2021 11:11:49 AM

	DEPTH	(fect bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATE YIELD FOI
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZO (attach supplemental sheets to fully describe all units)	ONES BEARING? (YES / NO)	WATER- BEARING ZONES (gp
	0	20'	20'	BROWN SAND	Y N	
	20'	23'	3'	SAND STONE	ON N	
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				BAILER OTHER – SPECIFY:	WELL YIELD (gpm):	0.00
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Appendix C

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	FS	ar er	nimas nvironm ervices	ental		LOG	OF: SB-16		
A	LO	Farn	nington, NM • D nasenvironmenta	urango, CO I.com				(Page 1 of 1	)
N′ RI	BENS O-9 L 1/2 OF N O ARRIE	SON-MO LINE LEA W1/4, SI BA COUN	NTIN-GREE AK LOCATIO EC. 21, T26N NTY, NEW M	R N I, R1W EXICO	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 11/04/2020 : 11/04/2020 : 4.25 in. : H.S.A. : SPLIT SPOON	Latitude Longitude Datum GPS By Logged By	: N36.47586 : W106.9437 : WGS84 : C. Lamema : C. Lamema	2 49 an an
Depth in Feet	Surf. Elev. 6527	SCS	BRAPHIC		[	DESCRIPTION		Blow Count	PID (ppm)
0- 1- 2-	- 6527 - 6526 - 6525			No split sp	oon sample collectio	n.			
3- - 4- 5- - 6-	- 6524 - 6523 - 6522 - 6522	SP		POORLY S Staining, N No split sp	SORTED SAND, Find lo Odor, Dry. Split Sp oon sample collectio	e to Medium Grained, Tar boon sample from 3.5 to 5 n.	n-Brown, Loose, No 5 feet.	4,5,5	0.0
7- 7- 8- 9-	- 6520 - 6519 - 6518	SP		POORLY S Staining, N feet.	SORTED SAND, Find Io Odor, Dry, Organio	e to Medium Grained, Tar cs (Roots). Split Spoon sa	n-Brown, Loose, No ample from 8.5 to 10	4,8,8	80.4
10- 	- 6517 - 6516 - 6515 - 6514			No split sp	oon sample collectio	n.			
- 14 - 15 - 16	- 6513 - 6512 - 6511	CL		CLAY, Ver Spoon sam No split sp	y Low Plasticity, Bro ple from 13.5 to 15 f oon sample collectio	wn, Hard, No Staining, No feet. n.	o Odor, Dry. Split	14,30,52	15.0
17-	- 6510 - 6509		///////////////////////////////////////	CLAY. Ver	v Low Plasticity. Bro	wn. Hard. No Staining. No	o Odor, Drv. Split		
19- 	- 6508 - 6507 - 6506 - 6505	CL		Spoon san	oon sample collectio	n.	· · · · · · · · · · · · · · · · · · ·	21,52	23.6
23-  24-  25-	- 6504 - 6503	CL		CLAY, Ver of Coarse S	y Low Plasticity, Bro Sand. Split Spoon sa	wn, Hard, No Staining, No ample from 23.5 to 25 fee	o Odor, Dry. Lenses t.	49,52	11.6

		ar er	nimas ivironm ervices	iental		LOG OF: S	SB-17	/ MW	-9	
AL	5	Farm	nington, NM • D asenvironmenta	urango, CO I.com					(Pa	ge 1 of 1)
N1/2 RIO	BENS O-9 L 2 OF N ARRIE	Son-Moi Ine Lea W1/4, Se Ba Coun	NTIN-GREE K LOCATIO EC. 21, T26N ITY, NEW M	R N I, R1W EXICO	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 11/04/2020 : 11/04/2020 : 4.25 in. : H.S.A. : SPLIT SPOON	Latit Long Datu GPS Logg	ude gitude im S By ged By	:	N36.475788 W106.943731 WGS84 C. Lameman C. Lameman
Depth in Feet 0	Surf. Elev. 6527 6527 6526	nscs	GRAPHIC	No split spo	DESCRII	PTION n.	Blow Count	PID (ppm)	Well:   TOC:	MW-9 TBS — Steel Stick-Up
$\begin{array}{c} 2 \\ - \\ 3 \\ - \\ 4 \\ - \end{array}$	6525 6524 6523	SP		POORLY S Brown, Loo	SORTED SAND, Fine	e to Medium Grained, ), No Staining, No Odor,	2,4,5	35.2		Grout
	6522 6521 6520			Dry. Split S No split spo	Spoon sample from 3 oon sample collection	<u>.5 to 5 feet.</u> n.				— 2" PVC Casing — Bentonite Plug
8+ 9+ 10+ 11+ 12+	6519 6518 6517 6516 6515	SS		SANDSTO No Staining sample from No split spo	NE, Medium Grained g, No Odor, Dry. Sma m 8.5 to 10 feet. oon sample collection	d, White-Tan, Very Dense, all Recovery. Split Spoon n.	28,50	34.0		
12 - 13 - 13 - 14 - 15 - 15 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17	6513 6512 6511 6511 6511	SP		POORLY S Brown, Loo Recovery. No split spo	SORTED SAND, Fine ose, No Staining, No Split Spoon sample 1 oon sample collection	e to Medium Grained, Odor, Dry. Small from 13.5 to 15 feet. n.	9,9,6	15.1		— Sand Pack
18- 19- 20- 21-	6509 6508 6507 6506	SS		SANDSTO No Staining sample from	NE, Coarse Grained g, No Odor. Small Re m 18.5 to 20 feet.	, Tan, Very Dense, Wet, ecovery. Split Spoon	52	16.2		2" PVC 0.050" Screen
22 - 23 - 24 - 25	6505 6504 6503	CL		CLAY, Ver No Odor, E 23.5 to 25	y Low Plasticity, Brov Dry. Small Recovery. feet.	wn, Hard, No Staining, Split Spoon sample from	27,52	1.0		

	animas environm services	nental		LOG OF: SI	B-18 /	MW-	10	
ALS	Farmington, NM • I animasenvironment	Durango, CO al.com					(Paç	ge 1 of 1)
BENS O-9 L N1/2 OF N RIO ARRIE	SON-MONTIN-GREE LINE LEAK LOCATIC IW1/4, SEC. 21, T26I BA COUNTY, NEW N	ER DN N, R1W IEXICO	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 11/04/2020 : 11/04/2020 : 4.25 in. : H.S.A. : SPLIT SPOON	Latit Long Datu GPS Logg	ude gitude im 8 By ged By		N36.475717 W106.943398 WGS84 C. Lameman C. Lameman
Depth Surf. in Elev. Feet 6527	USCS GRAPHIC		DESCRI	PTION	Blow Count	PID (ppm)	Well: M TOC: <sup>-</sup>	/W-10 TBS — Steel Stick-Up ¬
$ \begin{array}{c} 0 - 6527 \\ - 6526 \\ - 6525 \\ - 6525 \\ - 3 - 6524 \end{array} $		No split sp	oon sample collection	n.				— Grout
$ \begin{array}{c}       4 - 6523 \\       5 - 6522 \\       6 - 6521 \\       7 - 6520 \end{array} $	SP	POORLY S Loose, Org Split Spoor No split sp	SORTED SAND, Coa janics (Roots), No St n sample from 3.5 to oon sample collection	irse Grained, Tan, Very aining, No Odor, Dry. 5 feet. n.	2,4,5	93.3		—2" PVC Casing —Bentonite Plug
$ \begin{array}{c}                                     $	SP	POORLY S Loose, No Split Spool No split sp	SORTED SAND, Coa Staining, No Odor, D a sample from 8.5 to oon sample collection	arse Grained, Tan-Brown, rry, Organics (Roots). 10 feet. n.	3,6,7	154.6		
$ \begin{array}{c}     12 - 6515 \\     13 - 6514 \\     14 - 6513 \\     15 - 6512 \\     16 - 6511 \\     16 - 6511 \\     17 - 6512 \\     16 - 6511 \\     17 - 6512 \\     17 - 6512 \\     18 - 6511 \\     19 - 6511 \\     10$	CL	CLAY, Ver No Odor, I No split sp	y Low Plasticity, Brov Dry. Split Spoon sam oon sample collection	wn, Hard, No Staining, ole from 13.5 to 15 feet. n.	27,52	9.4		— Sand Pack
17 - 6510 $18 - 6509$ $19 - 6508$ $20 - 6507$ $21 - 6506$ $22 - 6505$	CL	CLAY, Ver No Odor, E Fine Grain Split Spoo No split sp	y Low Plasticity, Brov Dry. Small Recovery of ed, Light Green, Haro a sample from 18.5 to oon sample collection	wn, Hard, No Staining, of SHALE at 20.25 feet, d, No Staining, No Odors. o 20.25 feet. n.	29,52	0.2		— 2" PVC 0.050" — Screen
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SS	SANDSTC Dense, No Spoon san	NE, Fine Grained, Li Staining, No Odor, I pple from 23.5 to 25 f	ght Tan-Brown, Very Dry. Small Recovery. Split eet.	50	0.3		

Appendix D

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WA	TER SAMP	LE COLLECT	ON FOR	M	Anima	s Environmental S	ervices
Moni	itor Well No:	MW - 9	•		624 E C	omanche St., Farmingto	on NM
			810 11.002	-	Tel. (50	5) 564-2281 animasenv	ironmental.com
Site:	13 M	G	÷			Project No.:	
Location:		9			-	Date: <u>\   ·   / ·</u>	20
Project:	- Taskaisian	<u> </u>		<u> </u>	-	Arrival Time: 1100	
Samplin	g reconician:	<u><u> </u></u>	DME		то	Air temp: $3(\sqrt{-1})$	
Well D	)iameter (in):	24			1.U N/e Total	I Denth (ft):	0
Initia	al D.T.W. (ft):	27,48	Time:	- 1102		(taken at initial aquain	a of all wells)
Confirm	m D.T.W. (ft):	22.78	Time:	1104		(taken prior to purging	well)
Fina	al D.T.W. (ft):	26.92	Time:	11:24		(taken after sample co	llection)
If N	IAPL Present:	D.T.P.: 0	D.T.W	.;	Thio	kness:Tim	e:
		Water Quali	ty Paramet	ers - Reco	orded Du	Iring Well Purging	
			YSI #	Calibra	tion Dat	e:	
Time	Temp	Conductivity	DO	nH	ORP	PURGED VOLUME	Notes/Observations
	(deg C)	(µS) (mS)	(mg/L)		(mV)	(see reverse for calc.)	Notes/Observations
11:07	9.6	471.0	8.25	7.73	178.5	Initial	Clear/Nosmell
11:13	8.9	493.1	7.56	7.46	173.3	1901	Ben INDEmell
11:18	8.8	488.0	893	2.37	1305	2 97	BralN-Small
					1.100	<u>- 3</u> ut	171 170 JULE 1
				1			
						· · · · · · · · · · · · · · · · · · ·	,
				1			
	-						
Analytical F	Parameters (ii	nclude analysis	method an	d numbe	r and typ	pe of sample container	s)
						a	
					7.		T
		D' I / -	1.1.1 -		······		
	No	Disposal of Pur	ged Water:				
	uectea Sampl	es stored on loe	e in Cooler:		<u>8</u>	and the second s	
	Chain of (	ustoay Record	complete:				A11
		Analytical L	aboratory:	Hall Envi	ronment	al Analysis Laboratory,	Albuquerque, NM
Equip	ment Used Di	uring Sampling:	Keck Wate	er Level or	Keck Int	terface Level, YSI Water	Quality Meter
Notos/Carr	monte	and Ne	ew Disposal	ole Baller	<u>.</u>		
Motes/Com	intents:	2 1			15	······································	
	·	V WOLL	Vol =	_ 1			
					2	1	
9							

'Fevisela: 08/10/09

WA	TER SAMP	LE COLLECTI	ON FOR	Μ	Anima	is Environmental Se	ervices
Mon	itor Well No:	M12-10	>		624 E C	omanche St., Farmingto	n NM
90. poortestante	and a second sec	/*( 00 1-	1. (2000)(200-0)	-	Tel. (50)	5) 564-2281 animasenv	ironmental.com
Site:	BMG	,				Project No.:	
Location:	<i>b-a</i>				•	Date: 11.1.2	6
Project:						Arrival Time: 10: 12	<u> </u>
Samplin	g Technician:	Gibro	MP		- "	Air Temp: 37	F
Purg	e / No Purge:				т.о	).C. Elev. (ft):	<u> </u>
Well (	Diameter (in):	21	<b>**</b> * * * * * * * * * * * * * * * * * *		Fotal We	Il Depth (ft): 27.4	13
Initi	al D.T.W. (ft):	27.13	Time:	-		(taken at initial gaugin	g of all wells)
Confir	m D.T.W. (ft):	27.13	Time:			(taken prior to purging	well)
Fin	al D.T.W. (ft):		Time:			(taken after sample co	llection)
If N	IAPL Present:	D.T.P.:	D.T.W.		_ Thic	kness: Tim	e:
		Water Qualit	ty Paramet	ers - Reco	orded Du	uring Well Purging	a to day the second at
			YSI #	_ Calibra	tion Dat	e:	
Time	Temp	Conductivity	DO	- AL	ORP	PURGED VOLUME	Netos (Oheener 1
Time	(deg C)	(µS) (mS)	(mg/L)	рп	(mV)	(see reverse for calc.)	Notes/Observations
		<u> </u>				(	
- <u>1</u>		104	$\rightarrow \forall$	ET	KD		
				·	12		
· · · · · · · · · · · · · · · · ·							
				inc	heg	76	
				wo	Atec	f in the second se	
18 Statement							
		NOD	100		/		
		100 1	UIGE		1		
			0				
		<u> </u>	Ke	$p_{O}$	1 <u>G</u>	laken	
		7					
Analytical I	Parameters (ir	clude analysis	method an	d numbe	r and typ	be of sample containers	
		** ******					
		Disposal of Pure	ed Water:				
Co	lected Sample	es Stored on Ice	in Cooler:				• • • • • • • • • • • • • • • • • • • •
	Chain of (	ustody Record	Complete:				······
	Chan or C		complete:		-		
		Analytical L	aboratory:	Hall Envi	ronment	tal Analysis Laboratory,	Albuquerque, NM
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level or	Keck Int	terface Level, YSI Water	Quality Meter
<u></u>	to a second s	and Ne	w Disposat	ole Bailer			
Notes/Com	ments:						
						······	
					<u> </u>	· · · · · · · · · · · · · · · · · · ·	

L revised: 08/10/09 Appendix E

	DEP	TH TO GRO	UNDWATER		Animas Environmental Services
	М	EASUREME	NT FORM		624 E Comanche St, Farmington NM 87401
Deciosts	Currendu				Tel. (505) 564-2281 Fax (505) 324-2022
Project:	Grounaw	ater Monitorin	g and Sampling		Project No.:
Jocation					Date: <u>11-19-20</u>
Tech:	0-5	. 16.	0		Time: $\frac{9:50 - /205}{1000}$
I CUIT.	_ C.Lon	heman 10. P.	snowne		Form: <u>1 of 1</u>
Well ID	Time	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Notes / Observations
MW-1	10:01	-	22.41		
MW-2	10:02	-	21.75	-	
MW-3	9:55		22.74	-	
MW-4	9:58		17.04	-	
MW-5	11:48	-	20.74		
MW-6	10:39		19.47		
MW-7	11:32	_	21.17	-	
MW-8	10:07		18.60	-	
MW-9	11:15	-	22.84	-	
MW-10	10:59	_	27.12	-	
Wells m	easured wi	th KECK water	level or KECK in	terface tape, dec	contaminated between each well measurement.

* IVIOI	ANTORANG V	VELESAMPL	ING RECO	ORD		Animas Environme	ental Services Page
Мог	nitor Well No:	MW	-4		62	24 E Comanche St., Farn	nington NM 87401
				-		Tel. (505) 564-2281 Fax	(505) 324-2022
Site	: BMG					Project No.:	
Location	: O-9				-	Date: //-/9-2	20
Project	Groundwate	r Monitoring and	d Sampling		_	Arrival Time: 9:56	
Sampliı	ng Technician:	a/	LB		_	Air Temp:	
Purg	ge / No Purge:	Purg	е	_	т.с	<b>D.C. Elev. (ft):</b> 750	)7.1
Well	Diameter (in):	2		_	Total W	ell Depth (ft):	12 17.09
Initi	ial D.T.W. (ft):	17.04	Time:	9:5	8	(taken at initial gaugin	g of all wells)
Confir	m D.T.W. (ft):	diagon of the second second	Time:			_(taken prior to purging	ı well)
Fin	al D.T.W. (ft):		Time:			_(taken after sample co	llection)
	VAPL Present:	D.I.P.:	<u> </u>		Thie	ckness: Tim	e:
		Water Quali	ty Paramet	ers - Rec	orded D	uring Well Purging	
	1			YSI #	Calibra	ted by:	
Time	Temp	Conductivity	DO	nH	ORP	PURGED VOLUME	Notos/Obecmetia
	(deg C)	(µS) (mS)	(mg/L)		(mV)	(see reverse for calc.)	Notes/Observations
	N/A	$C_{1}$	-1157	-ZY	DI	D(x)	
	-470	JEE	1001	23	DI	$\omega n$	
ŀ	Analytical Para	ameters (include	e analysis n	nethod a	nd numt	per and type of sample	containers)
		BTEX per EPA N	1ethod 802	1 (3 - 40	mL Vials	w/ HgCl2 preserve)	-
		GRO + DRO p	er EPA Met	thod 801	5M (250	mL Amber Glass)	
					(100		
	C	Disposal of Purg	ed Water:	NA			
Col	lected Sample	es Stored on Ice	in Cooler:	NA			
	Chain of C	ustody Record (	- Complete:	NA			
		Analytical La	- boratory:	Hall Envir	onment	al Analysis Laboratory	Albuquerque NM
Equip	ment Used Du	ring Sampling: I	Keck Water	Level or	Keck Int	erface Level VSI Water	Quality Meter
		and Nev	v Disposabl	e Bailer			
otes/Com	ments: MSu	fficient has	nter for	- Sama	des a	ad on example	CALLERA
		11-10- 100	1	10000	•0	The surveyord	where have

d by RBi	NITORING V	VELL'SAMPL	ING RECO	ORD		Animas Environme	ntal Services Page
Mo	nitor Well No:	MW	-5		62	4 E Comanche St., Farm	nington NM 87401
				-		Tel. (505) 564-2281 Fax	(505) 324-2022
Site	BMG					Project No.:	
Location	: O-9				-	Date: 11-19-20	
Project	: Groundwate	r Monitoring and	d Sampling			Arrival Time: 11:44	
Sampli	ng Technician:	a/0	B			Air Temp: by F Sun	m. Greezy
Pur	ge / No Purge:	Purg	e		т.с	<b>D.C. Elev. (ft):</b> 7503	3.22
Well	Diameter (in):	2		1	Fotal We	ell Depth (ft): -22.	90 21.70
Init	ial D.T.W. (ft):	20.74	Time:		6	_(taken at initial gaugin	g of all wells)
Confi	rm D.T.W. (ft):	20.74	Time:	(): <del>\</del>	8	_(taken prior to purging	well)
Fir	nal D.T.W. (ft):		Time:			_(taken after sample co	llection)
lt	NAPL Present:	D.T.P.:	D.T.W.		Thie	ckness: Tim	e:
		Water Quali	ty Paramet	ers - Reco	orded D	uring Well Purging	
				YSI #	Calibra	ted by: —	
Time	Temp	Conductivity	DO	вн	ORP	PURGED VOLUME	Notes/Observations
	(deg C)	(µS) (mS)	(mg/L)	pri	(mV)	(see reverse for calc.)	
	Ç	IT.	Arte	7-7	D		
	)	CC	NO	(E)	150	LOW	
0							
	Analytical Para	ameters (includ	e analysis r	method a	nd num	ber and type of sample	containers)
		BTEX per EPA N	Method 802	21 (3 - 40	mL Vials	w/ HgCl2 preserve)	
		GRO + DRO p	oer EPA Me	thod 801	5M (250	mL Amber Glass)	
	I	Disposal of Purg	ged Water:	NA			
Co	ollected Sample	es Stored on Ice	in Cooler:	NA			
	Chain of C	Custody Record	Complete:	NA			
		Analytical La	aboratory:	Hall Envi	ronment	tal Analysis Laboratory,	Albuquerque, NM
Equip	oment Used Du	ring Sampling:	Keck Wate	r Level or	Keck Int	terface Level, YSI Water	Quality Meter
		and Ne	w Disposab	le Bailer			
Notes/Con	nments: Sen+	Bailer dou	in. Bailer	what	i to a	alket water. Che	cked Total Leptu
Well.	C 21.47 141	-Sludge C2	1.70 +10 +	wD. In	sufficie	nt Water for Samo	iles
	No Se	MPLES CON	LECTEN				
				Contraction of the local division of the loc			

			C C				antal Services
Mor	nitor Well No:	MVV	-6	-	62	24 E Comanche St., Farn	nington NM 87401
Site	BMG					Project No •	(505) 324-2022
Location	0-9				_	Date: 11-19	20
Project:	Groundwater	Monitoring and	d Sampling		_	Arrival Time: 10:28	<u> </u>
Samplir	ng Technician:	alc	ß			Air Temp: 55°F Su	ing Breery
Purg	ge / No Purge:	Purg	е	_	т.с	D.C. Elev. (ft):	
Well I	Diameter (in):	4	Time	-	Total Wo	ell Depth (ft): 23	.41
Confir	m D.T.W. (ft):	19.47	. Time:	10:5	9	_(taken at initial gaugin(taken prior to purging	ig of all wells)
Fin	al D.T.W. (ft):	21.46	Time:	10:5	6	_(taken after sample co	(well) (lection)
IfP	NAPL Present:	D.T.P.:	D.T.W		Thie	ckness: Tim	e:
		Water Quali	ty Paramet	ers - Rec	orded D	uring Well Purging	
				YSI #_ (	Calibra	ted by: 11-19-20 6B	
Time	Temp	Conductivity	DO	nH	ORP	PURGED VOLUME	Notos/Obecmette
	(deg C)	(µS) (mS)	(mg/L)	pir	(mV)	(see reverse for calc.)	Notes/Observations
10:42	11.6	530	1.33	7.22	126.3	lai tial	Clean (No odar
10:46	[1.3	503	2.03	7.01	136.6	1.0	Brown/Tushid / No Od or
10:49	11.9	506	2.23	6.94	141.3	2.0	Brown N. Tuebid No oder
10:51	11.1	566	2.20	6-88	145.3	3.0	S.A.A.
10:53	11.3	509	2.18	6.82	149.0	4.0	S.A.A.
10:55							Samples Collected
							Low Recharge
	Analytical Para	meters (include	e analysis r	nethod a	nd numl	per and type of sample	containers)
		BTEX per EPA N	Vethod 802	21 (3 - 40	mL Vials	s w/ HgCl2preserve)	
-		GRO + DRO p	er EPA Me	thod 801	5M (250	mL Amber Glass)	
	[	) isposal of Purg	ed Water:	on Gro	rund - 1	Vo drainage to Wa	ah
Col	llected Sample	s Stored on Ice	in Cooler:	Yes			
	Chain of C	ustody Record	Complete:	Yes			
		Analytical La	aboratory:	Hall Envi	ronment	al Analysis Laboratory.	Albuquerque, NM
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level or	Keck Int	erface Level, YSI Water	Quality Meter
		and Nev	w Disposab	le Bailer			
otes/Com	ments: Calcu	lated Purge Vo	linne 27.	75 Gall	aus		
		v					

<i>i by Re</i> Bi	HTOKING V	ELL SAMPLI	NG RECO	ORD		Animas Environme	ental Services Page
Mor	nitor Well No:	MW	-7		62	4 E Comanche St., Farn	nington NM 87401
		27.50439 (28. 45.		-		Tel. (505) 564-2281 Fax	(505) 324-2022
Site	: BMG					Project No.:	
Location	: 0-9				-	Date: 11-19-	20
Project	Groundwater	Monitoring and	d Sampling		-	Arrival Time: 11:28	
Samplir	ng Technician:	CLIE	B			Air Temp: 62°F Sun	y Breezy
Purg	ge / No Purge:	Purg	е	_	т.с	D.C. Elev. (ft):	
Well I	Diameter (in):	4			Fotal We	ell Depth (ft): 21	.82
Initi	ial D.T.W. (ft):	21.17	Time:	11:31		(taken at initial gaugir	ng of all wells)
Confir	m D.T.W. (ft):	21.17	Time:	11:3	2	(taken prior to purging	y well)
Fin	al D.T.W. (ft):	21.62	Time:	11:4	2	_(taken after sample co	llection)
If P	NAPL Present:	D.T.P.:	D.T.W.		_ Thie	ckness: Tim	le:
		Water Qualit	y Paramet	ers - Reco	orded Du	uring Well Purging	
				YSI #	Calibra	ted by:	
Time	Temp	Conductivity	DO	mLl	ORP	PURGED VOLUME	Notes (Observe)
mile	(deg C)	(µS) (mS)	(mg/L)	рп	(mV)	(see reverse for calc.)	Notes/Observations
	Cr		~	10		1	
	) -	ENG	TES	BE	10	$\omega$	
lium							Ha Tabalana
11.90							Very larbid St Oda
							Samples Collector
1	Analytical Para	ameters (include	e analysis r	method a	nd num	her and type of sample	containors)
-							containersj
		BIEX per EPA N	vietnod 802	<u>1 (3 - 40</u>	mL Vials	w/ HgCl2 preserve)	
		GRO + DRO p	er EPA Me	thod 801	5M (250	mL Amber Glass)	
	[	Disposal of Purg	ed Water:	On Grow	-N:	drainan to Al	uL
Со	llected Sample	es Stored on Ice	in Cooler:	Yes		- je i ol	
	Chain of C	ustody Record	Complete	Yes			
		Analytical La	aboratory	Hall Envir	ronment	tal Analysis Laboratory	
Fauin	ment lised Du	ring Sampling	Kack-Water		Kock Int	terface lovel VSI Mater	Annuquerque, INIVI
rdaib		and Nev	N Disposab	le Bailer	NECK IIII	Lenace Level, 151 Water	
otec/Com	monter		, Disposad		1 0	h . 0 .	
oles/com	Intents: Un	Iteld / Only	enough	brater	to Co	lect Samples	<b>`</b>
Jo War	ter Qual	ity Kadja	go due	to s	sheen.		
		0	0				

won	htoring w	HELPS AMPLI	ING RECO	ORD		Animas Environme	ental Services Page
Mon	itor Well No:	MW	-8		62	4 E Comanche St., Farn	nington NM 87401
				_		Tel. (505) 564-2281 Fax	(505) 324-2022
Site:	BMG					Project No.:	
Location:	O-9				-	Date: 11- 9-2	0
Project:	Groundwater	Monitoring and	d Sampling		_	Arrival Time: این: ۲۵	
Samplin	g Technician:	CL	./GB		_	Air Temp: 34'F	Sunny, Breezy
Purg	e / No Purge:	Purg	e	_	т.с	).C. Elev. (ft):	
Well [	Diameter (in):	4		_	Total We	ell Depth (ft): 22	.68
Initia	al D.T.W. (ft):	18.60	Time:	10:0	15	_(taken at initial gaugir	ng of all wells)
Confire	m D.T.W. (ft):	18.66	Time:	10:	07	(taken prior to purging	y well)
Fina	al D.T.W. (ft):	21.06	Time:	/0:	25	(taken after sample co	ollection)
	IAPL Present:	D.I.P.:	D.1.W		Thi	ckness: Tim	le:
		Water Quali	ty Paramet	ers - Rec	orded D	uring Well Purging	
				YSI #_ [	Calibra	ted by: 11-11-20 CB	
Time	Temp	Conductivity	DO	nH	ORP	PURGED VOLUME	Notes/Observation
	(deg C)	(µS) (mS)	(mg/L)		(mV)	(see reverse for calc.)	
0:11	12.4	569	1.45	7.66	56.8	laitial	Crean No odar
10:13	11.7	546	1.32	7.2.8	12.5	1.0	Tam S. Turbel No oder
10:15	11.6	544	11.4	703		1.0	SAA
10:18	11.5	541	1.51	1.93	- 14 0	3.0	Tan Trubill Non
10:20	11.5	543	156	1.45	-215	4 p	Tan Fr. 1: 154 M
10:22	(1.)	544	1.50	1.70	- 30 9	7.0 F.0	SPA [/W/VIA] DO VOUV
10:24	11.4	744	1. 93	0.28	20.7	5.0	S.A.A.
10.29							Shuples Collected
							Low Recharge
A	Analytical Para	meters (includ	e analysis ı	method a	and num	ber and type of sample	containers)
		BTEX per EPA	Method 802	21 (3 - 40	) mL Vials	s w/ HgCl2preserve)	¢
		GRO + DRO p	oer EPA Me	thod 801	L5M (250	mL Amber Glass)	
			a d 14/- 1	C	1	2. 1	. /
	Lashad Crt	nsposal of Purg	jea water:	On Grow	-No 6	trainage to SW dra	ins/ Wash
Col	nected Sample	es Stored on Ice	in Cooler:	ys_			
	Chain of C	ustody Record	Complete:	Yes			
		Analytical L	aboratory:	Hall Env	ironmen	tal Analysis Laboratory,	Albuquerque, NM
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level o	r Keck In	terface Level, YSI Water	Quality Meter
		and Net	w Disposab	le Bailer			
otes/Com	ments: Calc	ulated Ano	je Volun	~ ~ 8	ballon	۸	

Mon							intal Jervices
Site	itor well no:	MW	-9		62	24 E Comanche St., Farn	nington NM 87401
Cite			×	-		Tel. (505) 564-2281 Fax	(505) 324-2022
Site:	BMG					Project No.:	()
Location:	O-9				-	Date: 11-19	lo
Project:	Groundwater	Monitoring an	d Sampling		_	Arrival Time: (1:02	•
Samplin	g Technician:	cu l	6B		_	Air Temp: 66 F Sum	y Breezy
Purg	e / No Purge:	Purģ	е	_	т.с	D.C. Elev. (ft):	· · ·
Well D	Diameter (in):	2		-	Total We	ell Depth (ft): 27	.18
Initia	al D.T.W. (ft):	22.84	Time:	11:13		_(taken at initial gaugin	ng of all wells)
Contirn		22.84	- Time:	11:15		_(taken prior to purging	y well)
If N	API Present:	<u> </u>			) Thia	_(taken after sample co	llection)
							le:
		Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging	
				YSI #_(	Calibra	ted by: (1-19-20 6B	
Time	Temp	Conductivity	DO	Hq	ORP	PURGED VOLUME	Notes/Observation
	(deg C)	(µS) (mS)	(mg/L)	P	(mV)	(see reverse for calc.)	
11:17	9.9	502	5.87	7.26	175.7	Initial	Tansed St. Turbid / Odar
11:20	9.3	488.6	5.59	7.13	183.4	1.0	S.A.A.
11:22	9.2	484.5	5.24	7.07	184.4	2.0	5. A. A.
11:24							Samples Collected
							Changing Coluci Co
А	nalytical Para	meters (includ	e analysis r	nethod a	nd numl	ber and type of sample	containers)
		RTFX per EDA	Method 901	01/2 40	ml Viel-		
				+ + + + + + + + + + + + + + + + + + + +		w/ ngcizpreserve)	
		GRO + DRO p	ber EPA ivie		5111 (250	mL Amber Glass)	
	Г	)isposal of Purg	ed Water	0 1.00		A. 1 13 A	
Coll	L Lacted Sample	s Stored on Les	in Coolers	UNBROW	iq - No	drainage to Wash	
Con		s stored on ice	in Cooler:	yes			
	Chain of C	ustody Record	Complete:	Jes			
		Analytical La	aboratory:	Hall Envi	ronment	al Analysis Laboratory,	Albuquerque, NM
Equipn	nent Used Du	ring Sampling: _	Keck Water	r Level or	Keck Int	erface Level, YSI Water	Quality Meter
		and Nev	w Disposab	le Bailer			
otes/Comr	ments: Calcu	Unted Purge	Volume :	= 2 ball	ns		
Haght of	Curing - 2'	v					

by MONITORING WELL SAMPLING RECORD					Animas Environmental Services Pag		
Monitor Well No: MW-10					624 E Comanche St., Farmington NM 87401		
					Tel. (505) 564-2281 Fax (505) 324-2022		
Site:	BMG					Project No.:	
Location: O-9					Date: 11-19-20		
Project: Groundwater Monitoring and Sampling					Arrival Time: 10:58		
Samplin	ng Technician:	CLI	6B			Air Temp: ۲۰۵۰ ۶۰ Su	may, Bracey
Purge / No Purge Purge					T.O.C. Elev. (ft):		
Well [	Diameter (in):	2		1	Fotal We	ell Depth (ft): 27	.43
Initi	al D.T.W. (ft):	27.12	Time:	10:59		(taken at initial gaugin	ng 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 N	NAPL Present:	D.T.P.:	D.T.W.		Thio	ckness: Tim	ne:
		Water Qualit	ty Paramet	ers - Reco	orded Du	uring Well Purging	
				YSI #	Calibra	ted by:	
Time	Temp	Conductivity	DO	nН	ORP	PURGED VOLUME	Notes/Observations
	(deg C)	(µS) (mS)	(mg/L)	pn	(mV)	(see reverse for calc.)	
	.=						
	C	1	A 77-	JK	7	/	
	) (	- 100	TES	PE	COU	$\bigvee$	
					-		
	Analytical Para	ameters (includ	e analysis n	nethod a	nd num	ber and type of sample	e containers)
		BTEX per EPA	Method 802	21 (3 - 40	mL Vials	s w/ HgCl2preserve)	
		GRO + DRO p	per EPA Me	thod 801	5M (250	mL Amber Glass)	
	i	Disposal of Purg	ged Water:	NA			
Со	llected Sample	es Stored on Ice	in Cooler:	NA			
	Chain of C	ustody Record	Complete:	N A_			
		Analutical I	shoretorn.			tal Analysia Lakanata	Albumurenen biba
<b>.</b>		Analytical Li	aporatory:		ronmen	Lai Analysis Laboratory,	Albuquerque, NM
Equip	ment Used Du	ring Sampling:	Keck Water	Level or	Keck In	terface Level, YSI Wate	r Quality Meter
-		and Ne	w Disposab	le Bailer			
otes/Com	ments: Infu	fficient Wa	ter for	Water	guali	ty Readings an	el NO
						-	SAMPLES

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Appendix F



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

November 12, 2020

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

OrderNo.: 2011427

RE: BMG O 9

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/6/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109
Project: BMG O 9

**CLIENT:** Animas Environmental Services

Analytical Report
Lab Order 2011427

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/12/2020 Client Sample ID: SB-16 @ 10 ft Collection Date: 11/4/2020 10:46:00 AM

Lab ID: 2011427-001	Matrix: SOIL	<b>Received Date:</b> 11/6/2020 7:58:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: VP			
Chloride	ND	59	mg/Kg	20	11/11/2020 5:44:19 PM	56384			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM			
Diesel Range Organics (DRO)	17	10	mg/Kg	1	11/11/2020 2:22:33 AM	56308			
Motor Oil Range Organics (MRO)	77	50	mg/Kg	1	11/11/2020 2:22:33 AM	56308			
Surr: DNOP	78.1	30.4-154	%Rec	1	11/11/2020 2:22:33 AM	56308			
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	NSB			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/11/2020 1:55:13 PM	56283			
Surr: BFB	90.0	75.3-105	%Rec	1	11/11/2020 1:55:13 PM	56283			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
Benzene	ND	0.024	mg/Kg	1	11/11/2020 1:55:13 PM	56283			
Toluene	ND	0.048	mg/Kg	1	11/11/2020 1:55:13 PM	56283			
Ethylbenzene	ND	0.048	mg/Kg	1	11/11/2020 1:55:13 PM	56283			
Xylenes, Total	ND	0.097	mg/Kg	1	11/11/2020 1:55:13 PM	56283			
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	11/11/2020 1:55:13 PM	56283			

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

Page 1 of 10

Project:

**CLIENT:** Animas Environmental Services

BMG O 9

Analytical Report
Lab Order 2011427

Date Reported: 11/12/2020

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB-16 @ 25 ft Collection Date: 11/4/2020 11:14:00 AM Received Date: 11/6/2020 7:58:00 AM

Lab ID:	2011427-002	Matrix: SOIL	<b>Received Date:</b> 11/6/2020 7:58:00 AM								
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	HOD 300.0: ANIONS					Analyst	: VP				
Chloride		ND	60	mg/Kg	20	11/11/2020 6:21:33 PM	56384				
EPA MET	HOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst	BRM				
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	11/11/2020 2:45:49 AM	56308				
Motor Oi	l Range Organics (MRO)	ND	48	mg/Kg	1	11/11/2020 2:45:49 AM	56308				
Surr: I	ONOP	75.3	30.4-154	%Rec	1	11/11/2020 2:45:49 AM	56308				
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst	NSB				
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	11/11/2020 2:18:33 PM	56283				
Surr: I	BFB	92.1	75.3-105	%Rec	1	11/11/2020 2:18:33 PM	56283				
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB				
Benzene		ND	0.025	mg/Kg	1	11/11/2020 2:18:33 PM	56283				
Toluene		ND	0.049	mg/Kg	1	11/11/2020 2:18:33 PM	56283				
Ethylben	zene	ND	0.049	mg/Kg	1	11/11/2020 2:18:33 PM	56283				
Xylenes,	Total	ND	0.099	mg/Kg	1	11/11/2020 2:18:33 PM	56283				
Surr: 4	4-Bromofluorobenzene	99.8	80-120	%Rec	1	11/11/2020 2:18:33 PM	56283				

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

Page 2 of 10

**CLIENT:** Animas Environmental Services

BMG O 9

Project:

Analytical Report
Lab Order 2011427

Date Reported: 11/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB-17 @ 5 ft Collection Date: 11/4/2020 12:17:00 PM Received Date: 11/6/2020 7:58:00 AM

Lab ID: 2011427-003	Matrix: SOIL		<b>Received Date:</b> 11/6/2020 7:58:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: VP				
Chloride	ND	60	mg/Kg	20	11/11/2020 6:33:58 PM	56384				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/11/2020 3:09:02 AM	56308				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/11/2020 3:09:02 AM	56308				
Surr: DNOP	81.8	30.4-154	%Rec	1	11/11/2020 3:09:02 AM	56308				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/11/2020 2:41:52 PM	56283				
Surr: BFB	92.7	75.3-105	%Rec	1	11/11/2020 2:41:52 PM	56283				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.025	mg/Kg	1	11/11/2020 2:41:52 PM	56283				
Toluene	ND	0.049	mg/Kg	1	11/11/2020 2:41:52 PM	56283				
Ethylbenzene	ND	0.049	mg/Kg	1	11/11/2020 2:41:52 PM	56283				
Xylenes, Total	ND	0.098	mg/Kg	1	11/11/2020 2:41:52 PM	56283				
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	11/11/2020 2:41:52 PM	56283				

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

Page 3 of 10

**CLIENT:** Animas Environmental Services

BMG O 9

Project:

Analytical Report
Lab Order 2011427

Date Reported: 11/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB-17 @ 20 ft Collection Date: 11/4/2020 12:39:00 PM Received Date: 11/6/2020 7:58:00 AM

Lab ID: 2011427-004	Matrix: SOIL		<b>Received Date:</b> 11/6/2020 7:58:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: VP				
Chloride	ND	60	mg/Kg	20	11/11/2020 6:46:23 PM	56384				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	11/11/2020 3:32:20 AM	56308				
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	11/11/2020 3:32:20 AM	56308				
Surr: DNOP	79.1	30.4-154	%Rec	1	11/11/2020 3:32:20 AM	56308				
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/11/2020 3:52:15 PM	56283				
Surr: BFB	90.2	75.3-105	%Rec	1	11/11/2020 3:52:15 PM	56283				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.025	mg/Kg	1	11/11/2020 3:52:15 PM	56283				
Toluene	ND	0.049	mg/Kg	1	11/11/2020 3:52:15 PM	56283				
Ethylbenzene	ND	0.049	mg/Kg	1	11/11/2020 3:52:15 PM	56283				
Xylenes, Total	ND	0.098	mg/Kg	1	11/11/2020 3:52:15 PM	56283				
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	11/11/2020 3:52:15 PM	56283				

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

Page 4 of 10

Project: BMG O 9

**CLIENT:** Animas Environmental Services

Analytical Report
Lab Order 2011427

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/12/2020 Client Sample ID: SB-18 @ 10 ft Collection Date: 11/4/2020 1:58:00 PM Baseived Date: 11/6/2020 7:58:00 AM

Lab ID: 2011427-005	Matrix: SOIL		<b>Received Date:</b> 11/6/2020 7:58:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: VP				
Chloride	ND	60	mg/Kg	20	11/11/2020 6:58:47 PM	56384				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	180	9.5	mg/Kg	1	11/11/2020 3:55:54 AM	56308				
Motor Oil Range Organics (MRO)	170	47	mg/Kg	1	11/11/2020 3:55:54 AM	56308				
Surr: DNOP	90.2	30.4-154	%Rec	1	11/11/2020 3:55:54 AM	56308				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	23	mg/Kg	5	11/11/2020 4:15:51 PM	56283				
Surr: BFB	89.6	75.3-105	%Rec	5	11/11/2020 4:15:51 PM	56283				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.12	mg/Kg	5	11/11/2020 4:15:51 PM	56283				
Toluene	ND	0.23	mg/Kg	5	11/11/2020 4:15:51 PM	56283				
Ethylbenzene	ND	0.23	mg/Kg	5	11/11/2020 4:15:51 PM	56283				
Xylenes, Total	ND	0.46	mg/Kg	5	11/11/2020 4:15:51 PM	56283				
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	5	11/11/2020 4:15:51 PM	56283				

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

Page 5 of 10

**CLIENT:** Animas Environmental Services

BMG O 9

Project:

Analytical Report
Lab Order 2011427

Date Reported: 11/12/2020

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB-18 @ 25 ft Collection Date: 11/4/2020 2:27:00 PM Received Date: 11/6/2020 7:58:00 AM

Lab ID: 2011427-006	Matrix: SOIL		<b>Received Date:</b> 11/6/2020 7:58:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: VP				
Chloride	ND	60	mg/Kg	20	11/11/2020 7:11:11 PM	56384				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/11/2020 4:19:31 AM	56308				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/11/2020 4:19:31 AM	56308				
Surr: DNOP	69.2	30.4-154	%Rec	1	11/11/2020 4:19:31 AM	56308				
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/11/2020 4:39:27 PM	56283				
Surr: BFB	89.2	75.3-105	%Rec	1	11/11/2020 4:39:27 PM	56283				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.024	mg/Kg	1	11/11/2020 4:39:27 PM	56283				
Toluene	ND	0.048	mg/Kg	1	11/11/2020 4:39:27 PM	56283				
Ethylbenzene	ND	0.048	mg/Kg	1	11/11/2020 4:39:27 PM	56283				
Xylenes, Total	ND	0.096	mg/Kg	1	11/11/2020 4:39:27 PM	56283				
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	11/11/2020 4:39:27 PM	56283				

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

Page 6 of 10

Client: Project:	Animas BMG (	s Environmei 9	ntal Ser	vices							
110jeett	Biild (	<i>,</i>									
Sample ID:	MB-56384	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	n ID: 56	384	F	RunNo: 73	3276				
Prep Date:	11/11/2020	Analysis D	ate: 11	1/11/2020	S	SeqNo: 25	579019	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-56384	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 56	384	F	RunNo: 73	3276				
Prep Date:	11/11/2020	Analysis D	ate: 11	1/11/2020	S	SeqNo: 25	579020	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.4	90	110			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 10

2011427

12-Nov-20

Client: Ai Project: Bl	nimas Environmer MG O 9	ntal Ser	vices							
Sample ID: MB-56308	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	h ID: 56	308	R	unNo: 73	3255				
Prep Date: 11/9/2020	Analysis D	Date: 11	/10/2020	S	eqNo: 25	577432	Units: mg/k	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO	)) ND	10								
Motor Oil Range Organics (M	RO) ND	50								
Surr: DNOP	7.8		10.00		77.5	30.4	154			
Sample ID: LCS-5630	s SampT	Гуре: <b>LC</b>	S	Tes	tCode: EF	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	h ID: 56:	308	R	unNo: 73	3255				
Prep Date: 11/9/2020	Analysis D	Date: 11	/10/2020	S	eqNo: 25	577433	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO	) 45	10	50.00	0	90.7	70	130			
Surr: DNOP	3.8		5.000		75.5	30.4	154			

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

Page 8 of 10

2011427

12-Nov-20

Client: Project:	Animas E BMG O 9	nvironme	ntal Ser	vices							
Sample ID: mb	-56283	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	S	Batch	n ID: 56	283	R	unNo: 7	3283				
Prep Date: 11	/7/2020	Analysis D	ate: 11	/11/2020	S	eqNo: 2	578642	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics (GRO)	ND	5.0								
Surr: BFB		930		1000		92.6	75.3	105			
Sample ID: Ics-	-56283	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCS	SS	Batch	n ID: 56	283	R	unNo: 7	3283				
Prep Date: 11	/7/2020	Analysis D	ate: 11	/11/2020	S	eqNo: 2	578643	Units: mg/K	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics (GRO)	21	5.0	25.00	0	83.8	72.5	106			
Surr: BFB		1000		1000		101	75.3	105			

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

Page 9 of 10

2011427

12-Nov-20

Client: Project:	Animas Enviro BMG O 9	onmental	Servio	ces							
Sample ID: mb-56	<b>283</b> S	ampType:	MBL	к	Tes	Code: EF	PA Method	8021B: Volat	iles		
Client ID: PBS		Batch ID:	5628	3	R	unNo: 73	3283				
Prep Date: 11/7/2	<b>2020</b> Anal <u>y</u>	ysis Date:	11/1	1/2020	S	eqNo: 2	578689	Units: mg/K	g		
Analyte	Res	sult PC	QL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND 0.0	)25								
Toluene		ND 0.0	)50								
Ethylbenzene		ND 0.0	)50								
Xylenes, Total		ND 0.	.10								
Surr: 4-Bromofluorobe	enzene 0	.98		1.000		98.3	80	120			
Sample ID: LCS-5	<b>6283</b> S	ampType:	LCS		Tes	Code: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS		Batch ID:	5628	3	R	unNo: 73	3283				
Prep Date: 11/7/2	<b>2020</b> Anal <u>y</u>	ysis Date:	11/1	1/2020	S	eqNo: 2	578690	Units: mg/K	g		
Analyte	Res	sult PC	QL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0	.90 0.0	)25	1.000	0	90.0	80	120			
Toluene	0	.95 0.0	)50	1.000	0	94.8	80	120			
Ethylbenzene	0	.93 0.0	)50	1.000	0	93.2	80	120			
Xylenes, Total	:	2.8 0.	.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobe	enzene	1.0		1.000		101	80	120			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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

Page 10 of 10

WO#: 2011427

12-Nov-20

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HALL ENVIE ANAL LABO	RONMEN YSIS Ratory	TAL	Hall Environme TEL: 505-345 Website: clien	ental Analysis Labora 4901 Hawkins Albuquerque, NM 87 3975 FAX: 505-345-4 ts.hallenvironmental.	tory 8 NE 7109 <b>San</b> 9107 com	Sample Log-In Check List				
Client Name:	Animas E Services	invironmental	Work Order Nun	nber: 2011427		RcptNo: 1				
Received By:	Cheyenr	ne Cason	11/6/2020 7:58:00	АМ						
Completed By:	Emily M	ocho	11/6/2020 11:34:2	9 AM						
Reviewed By:	DAD	11/6/20								
Chain of Cus	stody									
1. Is Chain of C	ustody com	plete?		Yes 🗹	No 🗌	Not Present				
2. How was the	sample del	livered?		Courier						
Log In 3. Was an atter	npt made to	cool the sample	es?	Yes 🗸	No 🗌					
	• 10 1.1200.04 989									
4. Were all sam	ples receive	ed at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗔	NA 🗌				
5. Sample(s) in	proper cont	tainer(s)?		Yes 🗹	No 🗌					
6. Sufficient san	nple volume	e for indicated te	st(s)?	Yes 🗹	No 🗌					
7. Are samples	(except VO/	A and ONG) pro	perly preserved?	Yes 🗹	No 🗌					
8. Was preserva	ative added	to bottles?		Yes	No 🗹	NA 🗌				
9. Received at l	east 1 vial w	vith headspace <	<1/4" for AQ VOA?	Yes	No 🗌	NA 🗹				
10. Were any sa	mple contai	ners received br	oken?	Yes	No 🗹	# of preserved				
11. Does paperw	ork match b	ottle labels?		Yes 🗹	No 🗌	for pH:				
(Note discrep	ancies on c	hain of custody)			_	(<2 or >12	2 unless noted)			
2. Are matrices	correctly ide	entified on Chair	of Custody?	Yes 🗹	No 🗌	Adjusted?	<i>p</i>			
3. Is it clear what	it analyses	were requested?	2	Yes 🗹	No 🗌	-th	2 1/6/20			
14. Were all hold (If no, notify c	ing times at ustomer for	ble to be met? authorization.)		Yes ⊻	No 🗌	Checked by: J				
Special Hand	ling (if ap	oplicable)								
15. Was client n	otified of all	discrepancies w	vith this order?	Yes 🗌	No 🗌	NA 🗹				
Persor	Notified:		Date	e:	na brain of statute visual administr					
By Wh	om:		Via:	eMail P	hone 🗌 Fax	In Person				
Regard	ling:				and an	an element y an a the energy barrado and elements of the arts				
Client	nstructions			ETARTETE V INGLANDING ING THE DESIGN IN THE STREET, AND THE ST	allen adar ber torstelle te bekommend (Hannaan Harmaan	and a film of all ensures for schedular and a state of t				
16. Additional re	emarks:									
17. <u>Cooler Info</u> Cooler No	rmation D Temp <sup>o</sup>	C Condition	Seal Intact Seal No	Seal Date	Signed By					

Page 1 of 1

### Received by OCD: 2/23/2021 11:11:49 AM

HALLENVIRONMENTAL Hawkins NE - Albuquerque, NM 87109 505-345-3975 Eax 505-345-4107 X X X X X Analysis Request X X X X X X X X X X X X X X X X X X X	I Directly to BMC. Sovery four SB-11 e 20ft and SB-18 e 25ft.
Hall Environmenta         Hawkins NE - Albuquerque, NM 8711         505-345-3075       Fax 505-345-4107         505-345-3076       Fax 505-345-4107         X       X <tr< td=""><td>II Directly to BM C. avery four SB-71 e 20 Ft and SB estions</td></tr<>	II Directly to BM C. avery four SB-71 e 20 Ft and SB estions
Hall Environme         Hawkins NE - Albuquerque, N         Sob-345       Fax 505-345         Analysis Request         Analysis Request	I Directly to BMC. avery four SB-71 e 20ft av estions
Haukins NE       Albuquei         Hawkins NE       Albuquei         Sob-345-3975       Fax 5         Sob-345-3975       Fax 5         Analysis Reque       Albuquei         X       X       X         X       X       X       Albuquei         X       X       X       X       Albuquei         Y       X       X       X       X       X         Y       X       X       X       X       X       X         Y       X       X       X       X       X       X       X       X         Y       X	1 1 1 1 1 11 Directly to BM 1 avery for SB-11 e 20 estions
Hawkins NE       Analysis         Analysis       0.00.0         Analysis       Analysis	 11 Directly to avery four SB-T estions
Hawkins N Hawkin	  1 Directu avery for estions
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ant: Ining Ad Ining Ad	010
	Date:



December 02, 2020

Elizabeth McNally Animas Environmental 624 E. Comanche Farmington, NM 87401 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

RE: BMG 0 9

OrderNo.: 2011A71

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/20/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011A71

Date Reported: 12/2/2020

CLIENT:	Animas Environmental	Client Sample ID: MW-6										
Project:	BMG 0 9	Collection Date: 11/19/2020 10:55:00 AM										
Lab ID:	2011A71-001	Matrix: AQUEO	US	Received Dat	Date: 11/20/2020 8:00:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	THOD 8015D: GASOLINE RANGE					Analyst	RAA					
Gasoline	e Range Organics (GRO)	ND	0.050	mg/L	1	11/23/2020 4:13:00 PM	G73581					
Surr: E	BFB	91.4	70-130	%Rec	1	11/23/2020 4:13:00 PM	G73581					
EPA MET	THOD 8015M/D: DIESEL RANGE					Analyst:	CLP					
Diesel R	ange Organics (DRO)	ND	1.0	mg/L	1	11/26/2020 5:38:04 AM	56647					
Motor Oi	il Range Organics (MRO)	ND	5.0	mg/L	1	11/26/2020 5:38:04 AM	56647					
Surr: [	DNOP	96.0	70-130	%Rec	1	11/26/2020 5:38:04 AM	56647					
EPA MET	THOD 8260: VOLATILES SHORT	LIST				Analyst	RAA					
Benzene	9	ND	1.0	µg/L	1	11/23/2020 4:13:00 PM	SL73581					
Toluene		ND	1.0	µg/L	1	11/23/2020 4:13:00 PM	SL73581					
Ethylben	izene	ND	1.0	µg/L	1	11/23/2020 4:13:00 PM	SL73581					
Xylenes,	Total	ND	1.5	µg/L	1	11/23/2020 4:13:00 PM	SL73581					
Surr: 2	1,2-Dichloroethane-d4	111	70-130	%Rec	1	11/23/2020 4:13:00 PM	SL73581					
Surr: [	Dibromofluoromethane	109	70-130	%Rec	1	11/23/2020 4:13:00 PM	SL73581					
Surr: T	Toluene-d8	94.3	70-130	%Rec	1	11/23/2020 4:13:00 PM	SL73581					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011A71

Date Reported: 12/2/2020

CLIENT:	Animas Environmental	Client Sample ID: MW-7										
Project:	BMG 0 9	Collection Date: 11/19/2020 11:40:00 AM										
Lab ID:	2011A71-002	Matrix: AQUI	EOUS	te: 11/20/2020 8:00:00 AM								
Analyses		Result	RL	Qual Units	DF	<b>Date Analyzed</b>	Batch					
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	RAA					
Gasoline	Range Organics (GRO)	0.054	0.050	mg/L	1	11/23/2020 5:24:00 PM	G73581					
Surr: E	BFB	90.2	70-130	%Rec	1	11/23/2020 5:24:00 PM	G73581					
EPA MET	HOD 8015M/D: DIESEL RANGE					Analyst	CLP					
Diesel R	ange Organics (DRO)	3.4	1.0	mg/L	1	11/26/2020 6:48:56 AM	56647					
Motor Oi	I Range Organics (MRO)	ND	5.0	mg/L	1	11/26/2020 6:48:56 AM	56647					
Surr: [	DNOP	105	70-130	%Rec	1	11/26/2020 6:48:56 AM	56647					
EPA MET	THOD 8260: VOLATILES SHORT	LIST				Analyst	RAA					
Benzene		ND	1.0	µg/L	1	11/23/2020 5:24:00 PM	SL73581					
Toluene		ND	1.0	μg/L	1	11/23/2020 5:24:00 PM	SL73581					
Ethylben	zene	ND	1.0	μg/L	1	11/23/2020 5:24:00 PM	SL73581					
Xylenes,	Total	ND	1.5	µg/L	1	11/23/2020 5:24:00 PM	SL73581					
Surr: 1	1,2-Dichloroethane-d4	108	70-130	%Rec	1	11/23/2020 5:24:00 PM	SL73581					
Surr: [	Dibromofluoromethane	103	70-130	%Rec	1	11/23/2020 5:24:00 PM	SL73581					
Surr: 7	Toluene-d8	93.3	70-130	%Rec	1	11/23/2020 5:24:00 PM	SL73581					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011A71

Date Reported: 12/2/2020

CLIENT:	Animas Environmental	Client Sample ID: MW-8									
Project:	BMG 0 9		(	Collection Dat	<b>e:</b> 11	/19/2020 10:24:00 AM					
Lab ID:	2011A71-003	Matrix: AQUEOUS Received Date: 11/20/2020 8:00:00 AM									
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	THOD 8015D: GASOLINE RANGE					Analyst:	RAA				
Gasoline	e Range Organics (GRO)	ND	0.050	mg/L	1	11/23/2020 6:35:00 PM	G73581				
Surr: I	BFB	92.2	70-130	%Rec	1	11/23/2020 6:35:00 PM	G73581				
EPA MET	THOD 8015M/D: DIESEL RANGE					Analyst:	CLP				
Diesel R	ange Organics (DRO)	ND	1.0	mg/L	1	11/26/2020 7:12:31 AM	56647				
Motor Oi	il Range Organics (MRO)	ND	5.0	mg/L	1	11/26/2020 7:12:31 AM	56647				
Surr: I	DNOP	105	70-130	%Rec	1	11/26/2020 7:12:31 AM	56647				
EPA MET	THOD 8260: VOLATILES SHORT	LIST				Analyst:	RAA				
Benzene	9	ND	1.0	µg/L	1	11/23/2020 6:35:00 PM	SL73581				
Toluene		ND	1.0	μg/L	1	11/23/2020 6:35:00 PM	SL73581				
Ethylben	izene	ND	1.0	μg/L	1	11/23/2020 6:35:00 PM	SL73581				
Xylenes,	, Total	ND	1.5	μg/L	1	11/23/2020 6:35:00 PM	SL73581				
Surr: 7	1,2-Dichloroethane-d4	111	70-130	%Rec	1	11/23/2020 6:35:00 PM	SL73581				
Surr: I	Dibromofluoromethane	107	70-130	%Rec	1	11/23/2020 6:35:00 PM	SL73581				
Surr: <sup>-</sup>	Toluene-d8	92.7	70-130	%Rec	1	11/23/2020 6:35:00 PM	SL73581				

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 9

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011A71

Date Reported: 12/2/2020

CLIENT:	Animas Environmental	Client Sample ID: MW-9										
Project:	BMG 0 9	Collection Date: 11/19/2020 11:24:00 AM										
Lab ID:	2011A71-004	Matrix: AQUEOU	JS	t <b>e:</b> 11,	: 11/20/2020 8:00:00 AM							
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch				
EPA MET	THOD 8015D: GASOLINE RANGE						Analyst:	RAA				
Gasoline	e Range Organics (GRO)	ND	0.050	)	mg/L	1	11/23/2020 6:59:00 PM	G73581				
Surr: I	BFB	91.0	70-130	)	%Rec	1	11/23/2020 6:59:00 PM	G73581				
EPA MET	THOD 8015M/D: DIESEL RANGE						Analyst:	CLP				
Diesel R	ange Organics (DRO)	ND	1.0	)	mg/L	1	11/26/2020 7:36:08 AM	56647				
Motor Oi	il Range Organics (MRO)	ND	5.0	)	mg/L	1	11/26/2020 7:36:08 AM	56647				
Surr: I	DNOP	102	70-130	)	%Rec	1	11/26/2020 7:36:08 AM	56647				
EPA MET	THOD 8260: VOLATILES SHORT	LIST					Analyst:	RAA				
Benzene	9	ND	1.0	)	µg/L	1	11/23/2020 6:59:00 PM	SL73581				
Toluene		ND	1.0	)	µg/L	1	11/23/2020 6:59:00 PM	SL73581				
Ethylben	izene	ND	1.0	)	µg/L	1	11/23/2020 6:59:00 PM	SL73581				
Xylenes,	, Total	ND	1.5		µg/L	1	11/23/2020 6:59:00 PM	SL73581				
Surr:	1,2-Dichloroethane-d4	110	70-130	)	%Rec	1	11/23/2020 6:59:00 PM	SL73581				
Surr: I	Dibromofluoromethane	106	70-130	)	%Rec	1	11/23/2020 6:59:00 PM	SL73581				
Surr: <sup>-</sup>	Toluene-d8	94.0	70-130	)	%Rec	1	11/23/2020 6:59:00 PM	SL73581				

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 9

<b>Analytical Report</b>	
Lab Order 2011A71	

Hall Environmental	l Analysis	Laboratory, Inc.
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Date Reported: 12/2/2020

CLIENT:Animas EnvironmentalProject:BMG 0 9Lab ID:2011A71-005	Client Sample ID: Trip BlankCollection Date:Matrix: AQUEOUSReceived Date: 11/20/2020 8:00:00 J								
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 8260: VOLATILES SHO	ORT LIST					Analyst:	RAA		
Benzene	ND	1.0		µg/L	1	11/23/2020 7:23:00 PM	SL73581		
Toluene	ND	1.0		µg/L	1	11/23/2020 7:23:00 PM	SL73581		
Ethylbenzene	ND	1.0		µg/L	1	11/23/2020 7:23:00 PM	SL73581		
Xylenes, Total	ND	1.5		µg/L	1	11/23/2020 7:23:00 PM	SL73581		
Surr: 1,2-Dichloroethane-d4	109 7	0-130		%Rec	1	11/23/2020 7:23:00 PM	SL73581		
Surr: Dibromofluoromethane	105 7	0-130		%Rec	1	11/23/2020 7:23:00 PM	SL73581		
Surr: Toluene-d8	94.6 7	0-130		%Rec	1	11/23/2020 7:23:00 PM	SL73581		

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
- Н 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

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 9

Client: Project:	Animas E BMG 0 9	Invironme	ntal								
Sample ID:	MB-56647	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	9	
Client ID:	PBW	Batch	n ID: <b>56</b>	647	F	RunNo: 7	3632				
Prep Date:	11/25/2020	Analysis D	)ate: 11	1/26/2020	S	SeqNo: 2	594892	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	1.0								
Motor Oil Rang	e Organics (MRO)	ND	5.0								
Surr: DNOP		0.86		1.000		86.1	70	130			
Sample ID:	ble ID: LCS-56647 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range										
Client ID:	LCSW	Batch ID: 56647 RunNo: 73632									
Prep Date:	11/25/2020	Analysis D	)ate: 1*	1/26/2020	S	SeqNo: 2	594893	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	5.1	1.0	5.000	0	102	70	130			
Surr: DNOP		0.43		0.5000		86.0	70	130			
Sample ID:	2011A71-001AMS	SampT	уре: <b>М</b>	6	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e	
Client ID:	MW-6	Batch	n ID: 56	647	F	RunNo: 7	3632				
Prep Date:	11/25/2020	Analysis D	)ate: 11	1/26/2020	S	SeqNo: 2	594977	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	5.2	1.0	5.000	0	104	70	130			
Surr: DNOP		0.46		0.5000		91.5	70	130			
Sample ID:	2011A71-001AMS	D SampT	уре: <b>М</b>	SD	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e	
Client ID:	MW-6	Batch	n ID: <b>56</b>	647	F	RunNo: 7	3632				
Prep Date:	11/25/2020	Analysis D	)ate: 11	1/26/2020	S	SeqNo: 2	594978	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	5.2	1.0	5.000	0	103	70	130	0.936	20	
Surr: DNOP		0.46		0.5000		91.5	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

\_\_\_\_\_

2011A71

02-Dec-20

Client: Project:	Animas E BMG 0 9	Environme	ntal								
Sample ID: 100ng	lcs	Samp	Туре: <b>LC</b>	s	Tes	tCode: E	PA Method	8260: Volatile	es Short L	ist	
Client ID: LCSW		Batc	h ID: <b>SL</b>	.73581	F	RunNo: 7	73581				
Prep Date:		Analysis [	Date: 1	1/23/2020	SeqNo: <b>2592550</b> Units: <b>µg/L</b>						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		21	1.0	20.00	0	106	70	130			
Toluene		19	1.0	20.00	0	96.4	70	130			
Surr: 1,2-Dichloroetha	ane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobe	enzene	10		10.00		103	70	130			
Surr: Dibromofluorom	ethane	10		10.00		103	70	130			
Surr: Toluene-d8		9.4		10.00		93.6	70	130			
Sample ID: MB		Samp	Туре: <b>М</b>	BLK	Tes	tCode: E	PA Method	8260: Volatile	es Short L	.ist	
Client ID: PBW		Batc	h ID: <b>SL</b>	.73581	F	RunNo: 7	73581				
Prep Date:		Analysis [	Date: 1	1/23/2020	Ś	SeqNo: 2	2592551	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
Xylenes, Total		ND	1.5								
Surr: 1,2-Dichloroetha	ane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobe	enzene	10		10.00		101	70	130			
Surr: Dibromofluorom	ethane	11		10.00		108	70	130			
Surr: Toluene-d8		9.5		10.00		94.8	70	130			
Sample ID: 2011A	71-001ams	Samp <sup>-</sup>	Type: MS	6	Tes	tCode: E	PA Method	8260: Volatile	es Short L	.ist	
Client ID: MW-6		Batc	h ID: <b>SL</b>	.73581	F	RunNo: 7	73581				
Prep Date:		Analysis [	Date: 1	1/23/2020	Ş	SeqNo: 2	2592553	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		22	1.0	20.00	0	110	70	130			
Toluene		20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroetha	ane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobe	enzene	10		10.00		103	70	130			
Surr: Dibromofluorom	ethane	11		10.00		107	70	130			
Surr: Toluene-d8		9.5		10.00		94.8	70	130			
Sample ID: 2011A	71-001amsc	001amsd SampType: MSD TestCode: EPA Method 8260: Volatiles Short List									
Client ID: MW-6		Batc	h ID: <b>SL</b>	.73581	F	RunNo: 7	73581				
Prep Date:		Analysis [	Date: 1'	1/23/2020	Ş	SeqNo: 2	2592554	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		21	1.0	20.00	0	107	70	130	2.73	20	
Toluene		19	1.0	20.00	0	96.7	70	130	4.29	20	

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 9

Page 92 of 97

WO#: 2011A71

02-Dec-20

Client:	Animas Env	Animas Environmental						
Project:	BMG 0 9							
Sample ID: 2011A	71-001amsd	SampType: MSD						

Sample ID: 2011A71-001amsd SampType: MSD TestCode: EPA Method 8260: Volatiles Short List									
Client ID: MW-6	Batch ID: SL73581 RunNo: 73581								
Prep Date:	Analysis Date:	11/23/2020	S	eqNo: 2	592554	Units: µg/L			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11	10.00		112	70	130	0	0	
Surr: 4-Bromofluorobenzene	10	10.00		102	70	130	0	0	
Surr: Dibromofluoromethane	11	10.00		106	70	130	0	0	
Surr: Toluene-d8	9.5	10.00		94.9	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

Page 8 of 9

WO#: 2011A71 02-Dec-20

Client: Proiect:	Animas E BMG 0 9	Environme	ntal								
	0.5	0 7			<b>.</b>			00450 0			
Sample ID:	2.5 ug gro ics	Sampi	ype: LC	5	Ies	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	LCSW	Batcl	n ID: <b>G7</b>	3581	F	RunNo: 7	3581				
Prep Date:		Analysis D	)ate: 11	/23/2020	S	SeqNo: 2	592561	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	0.48	0.050	0.5000	0	96.0	70	130			m
Surr: BFB		9.2		10.00		91.8	70	130			
Sample ID:	МВ	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	PBW	Batcl	n ID: <b>G7</b>	3581	F	RunNo: 7	3581				
Prep Date:		Analysis D	)ate: 11	/23/2020	S	SeqNo: 2	592562	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	0.050								m
Surr: BFB		9.3		10.00		93.2	70	130			
Sample ID:	2011A71-002ams	SampT	ype: <b>Mร</b>	6	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	MW-7	Batcl	n ID: <b>G7</b>	3581	F	RunNo: 7	3581				
Prep Date:		Analysis E	)ate: 11	/23/2020	S	SeqNo: 2	592566	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	0.55	0.050	0.5000	0.05400	99.2	70	130			
Surr: BFB		9.2		10.00		92.5	70	130			
Sample ID:	2011A71-002amsc	Samp1	ype: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	MW-7	Batcl	n ID: <b>G7</b>	3581	F	RunNo: 7	3581				
Prep Date:		Analysis D	)ate: 11	/23/2020	S	SeqNo: 2	592567	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	0.59	0.050	0.5000	0.05400	106	70	130	6.34	20	
Surr: BFB		9.2		10.00		92.0	70	130	0	0	

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#: 2011A71

02-Dec-20

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environme TEL: 505-345-3 Website: cliem	Pag eck List			
Client Name: Animas Environmental Se	Work Order Num	ber: 2011A71		RcptNo: 1	
Received By: Juan Rojas	11/20/2020 8:00:00	D AM	flan Eng		
Completed By: Isaiah Ortiz	11/20/2020 11:03:5	55 AM	InC		
Reviewed By: JR 11/20/20					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
<u>Log In</u>					
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 🗌		
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) properl	y 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 🗌		
10. Were any sample containers received broke	n?	Yes	No 🗹	# of preserved	/
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12	2 unless note
12. Are matrices correctly identified on Chain of	Custody?	Yes 🔽	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: SGC	11/20/20
Special Handling (if applicable)					
15. Was client notified of all discrepancies with t	this order?	Yes	No 🗌	NA 🔽	
Person Notified:	Date				
By Whom:	Via:	eMail	Phone 🗌 Fax	In Person	
Regarding:				NINDERALISTICATION AND AND AND AND AND AND AND AND AND AN	
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C Condition Se	eal Intact Seal No	Seal Date	Signed By		

Page 1 of 1

Rece	ived	by O	CD:	2/23	202	1 11	:11:4	<b>49</b> /	4 <i>M</i> (N	orl	۲)	Air Bubbles		Τ		Τ	Γ					Τ	Pa	ge 96 of	9 <u>7</u>
	ANALYSIS LABORATORY		4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request			(9	108)	(0)	н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н	1208) ХЭТВ ТРН (GRO/I	× × cr		2/ ×					x x		x x	temarks: Direct bill to BMG. Call with any questions.		his possibility. Any sub-contracted data will be clearly notated on the analytical rep
	4						bbert				7.1 - 1.7	HEAL No. 2011A71				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	.200	003	000			\$00 1	Date Time R 11/9/2012	Date Time 20/20 K20/0	ies. This serves as notice of the
.:	□ Rus		BMG 0-9				ly/ Eddie Hu		CL/GB	ATYes	I v. v. v. v.	Preservative Type	3-HgCl2	1-cool	3-Hguiz	3-HgCl2	3-HgCl2	3-HgCl2 1-cool	3-HgCl2 1-cool	3-HgCl2- 1-cool			Nau	IN ATAU	ccredited laborato
Turn-Around Tim	X Standard	Project Name:		Project #:		Project Manager:	Elizabeth McNal		Sampler:	On Ice:	Sample Lempera	Container Type and #	3- 40 mL VOA	250 mL amber glass	3-40 mL VOA	3- 40 mL VOA	3- 40 mL VOA	3- 40 mL VOA 250 mL amber glass	3- 40 mL VOA 250 mL amber glass	3- 40 mL VOA 250 mL amber glass		2 - 40 mL VOA	Received by:	Received by:	e subcontracted to other a
tody Record	nental Services		8	on, NM 87499		@animasenvironmental.com		Level 4 (Full Validation)				Sample Request ID	MW-4		MW-5	MW-6	7-WM	MW-8	9-WW	01-WW		Trip blank	d by:	d by: 11, + 1 ) Ould	submitted to Hall Environmental may b
of-Cus	Environm		P.O. Box	Farmingt	<b>-</b> 2281	ehubbert(			Ċ			Matrix	H	2.2.	H <sub>0</sub>	H <sub>2</sub> O	H <sub>2</sub> O	H <sub>2</sub> O	H <sub>2</sub> O	0 <sup>c</sup> H	:	H <sub>2</sub> O	Relinquished	Relinquished	essaty, samples
hain-c	Animas		ldress:		505-564	ax#:	skage:	p	ion:	1	ype)	Time				10:55	4h:11	10:24	11:24				Time:	Time:	If nece
D	Client:	to Im	Mailing Ad	a: 1	Phone #:	Email or F	QA/QC Pac	X Standa	Accreditat			Date				11-15-2.5	11-19-200	11-19-20	02-51-11				N     9 Dolo	Date:1	11100

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

Page 97 of 97

CONDITIONS

Action 18576

CONDITIONS								
Operator:	OGRID:							
BENSON-MONTIN-GREER DRILLING CORP	2096							
4900 College Blvd.	Action Number:							
Farmington, NM 87402	18576							
	Action Type:							
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)							

CONDITIONS

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