



**REVIEWED**

**By Mike Buchanan at 3:29 pm, Aug 04, 2023**

March 31, 2022

Nelson Velez  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

**Re: Q1 through Q4 Annual 2021 Progress Report  
Benson-Montin-Greer  
Highway 537 Truck Receiving Station 2009 Release  
Rio Arriba County, New Mexico  
AP-137 (Formerly 3RP-448)  
Incident #NRMD0929447874**

Review of Q1 through Q4 Annual  
2021 Progress Report: **Content  
Satisfactory**

1. Continue to sample MW-1 for Volatiles Quarterly, Phenols (SW-846 9067) and dissolved manganese (EPA Method 200.7)
2. Gauge all wells for depth to groundwater and water quality parameters on an annual basis.
3. Replace absorbent sock as needed.
4. Submit the next Annual Report for all quarters on or before April 1, 2024.

Dear Mr. Velez:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Annual 2021 Progress Report, which provides details of monitoring and sampling of site wells at the BMG Highway 537 Truck Receiving Station 2009 Release location. Site activities were conducted in accordance with a Stage 1 and 2 Abatement Plan dated June 14, 2019, and Abatement Plan approval is currently pending.

## 1.0 Site Information

### 1.1 Site Location

The 2009 release originated on the Schmitz Ranch, on the south side of Highway 537 and within the bermed area of the Highway 537 Truck Receiving Station. The station is adjacent to the Los Ojitos Arroyo, which ultimately drains to Largo Canyon. The release location is legally described as being located within the SW¼ NW¼ Section 18, T25N, R3W in Rio Arriba County, New Mexico. Latitude and longitude were recorded as being N36.39866 and W107.19328, respectively. A topographic site location map, based on an excerpt from the U.S. Geological Survey (USGS) 7.5-minute Schmitz Ranch, Rio Arriba County, New Mexico topographic quadrangle, is included as Figure 1, and a general site plan is presented as Figure 2.

### 1.2 Release History

**January 29, 2009** - a Western Refining truck driver discovered crude condensate within the bermed area around the storage tanks, on the south side of Tank #1. BMG personnel

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arrived on-site and confirmed a leak at a buried 6-inch line between the storage tanks and the truck loading pump. The release was the result of a corrosion hole along the bottom of the pipe near the truck loading pumps.

**February 2, 2009** - the 6-inch line was repaired, and the excavation was backfilled with clean fill material. Approximately 100 cubic yards of contaminated soil were transported to the TNT Landfarm for disposal.

### *1.3 Site Investigation and Monitor Well Installation*

**February 16 through 20, 2009** - site investigation activities were conducted by AES to delineate the full extent of petroleum hydrocarbon impact on surface and subsurface soils and groundwater resulting from the release. The investigation included the installation of 11 monitor wells (MW-1 through MW-11) and collection of soil and groundwater samples. Note that non-aqueous phase liquid (NAPL) was not observed during groundwater monitor well installation or subsequent sampling.

Soils were found to consist of interbedded layers of moist reddish-brown clayey and silty sand, moist reddish-brown silty and sandy clay, poorly sorted tan sands and sandstone, and moist stiff brown clays. Soil contaminant concentrations exceeded New Mexico Oil Conservation Division (NMOCD) action levels for total benzene, toluene, ethylbenzene, and total xylenes (BTEX) in MW-1, MW-3, MW-4, and MW-8. Soil concentrations for total petroleum hydrocarbons (TPH) exceeded laboratory detection limits in MW-1, MW-3, MW-4, and MW-8. The highest total BTEX concentrations and total TPH concentrations were reported at 345 mg/kg and 8,100 mg/kg, respectively, at 26 feet below ground surface (ft bgs) in MW-3. Details of the site investigation are included in the AES *Site Investigation Report* submitted to NMOCD in April 2009.

**May 12 and June 4, 2014** - AES conducted further site assessment on behalf of BMG as part of termination of the site lease and removal of site structures and infrastructure. The work included soil sampling during the excavation of hydrocarbon contaminated soils, discovered when the storage tanks and truck loading station were removed from the site, and a subsequent assessment of subsurface soils, utilizing a Geoprobe.

- **Former Tank Area** - under the former tank area, the field screening results for volatile organic compounds (VOCs) via organic vapor meter (OVM) ranged from 0.0 parts per million (ppm) in SB-1, SB-2, SB-4, and SB-6 up to 1,048 ppm in SB-5 (8 to 12 ft). Except for SB-5, VOC concentrations in the tank area borings were below the NMOCD action level of 100 ppm VOCs. Field TPH concentrations were also below the NMOCD action level of 100 milligrams per kilogram (mg/kg) in all

borings, except SB-5, in which the highest TPH concentration was noted at 225 mg/kg (12 to 16 ft bgs). The remaining intervals in SB-5 had TPH concentrations of 61.5 mg/kg (4 to 8 ft and 8 to 12 ft bgs) and 69.2 mg/kg (16 to 20 ft bgs). Excepting SB-5, residual contaminant concentrations below the former tank area were below applicable NMOCD action levels for VOCs and TPH.

- Former Truck Loading Station - Under the former loading area, the field screening results for VOCs via OVM ranged from 0.3 ppm in SB-15, SB-16, SB-17, and SB-20, up to greater than 5,000 ppm in SB-11 through SB-14, SB-18, and SB-19. Field TPH concentrations were also reported above the NMOCD action level of 100 mg/kg. Based on VOC and TPH concentrations, residual contaminants in subsurface soils were still present at the former truck loading station area and former pump area. Results of the excavation assessment confirmed that residual contaminants were present under the former loading area; approximately 600 cubic yards of petroleum-impacted soil were subsequently removed from the excavated areas and transported to the BMG Landfarm by TPC, LLC. Results of the excavation assessment were submitted in a report dated November 12, 2014.

#### 1.4 Groundwater Monitoring and Sampling, 2009 to 2017

AES conducted quarterly to semi-annual groundwater measurement and sampling from March 2009 through August 2017. Note that MW-2, MW-4, MW-5, MW-6, MW-7, MW-10, and MW-11 had either trace concentrations or concentrations below laboratory detection limits since the wells were installed. In the remaining wells, MW-1, MW-3, MW-8, and MW-9, there were significant contaminant reductions through monitored natural attenuation; however, in 2014, 1.18 ft of NAPL was detected in MW-1 after groundwater in the area had declined approximately 3 ft over a 5-year period.

By 2016, 9 of the 11 monitor wells (MW-2 and MW-4 through MW-11) had eight or more consecutive sampling events with readings below applicable New Mexico Water Quality Control Commission (WQCC) standards. Cumulative groundwater measurement and water quality data are presented in Table 1, and a summary of groundwater analytical results is presented in Table 2.

#### 1.5 Monitor Well P&A—MW-6 through MW-11, August 2017

On August 7, 2017, BMG, with approval from NMOCD, completed the plugging and abandonment (P&A) of six monitor wells located at the site, including MW-6 through MW-11. These monitor wells all had at least eight consecutive events of groundwater contaminant concentrations below laboratory detection limits or below applicable New

Mexico WQCC standards. At the request of NMOCD, MW-2, MW-4, and MW-5 were kept open so that they could continue to be gauged for depth to groundwater and hydraulic gradient could be determined.

### *1.6 NAPL Recovery Efforts in MW-1*

NAPL was first observed in MW-1 in April 2014, when groundwater elevations gradually declined about 3 ft from when the wells were first installed in 2009. By August 2014, BMG had arranged for aggressive NAPL recovery to be implemented with a high vacuum multi-phase extraction (MPE) unit, which was powered by a mobile internal combustion engine (ICE) unit. The unit ran between August and November 2014 and April to May 2015. In 2014, 1,957 pounds (lbs) of petroleum hydrocarbons were removed as a combination of vapors, NAPL (limited), and dissolved phase constituents. In 2015, approximately 1,874 lbs of hydrocarbons were removed as a combination of vapors and dissolved phase constituents. MPE operations were suspended in May 2015 because of high production of water and rapidly decreasing mass removal rates.

A short pilot study utilizing a low vacuum Solar Sipper was conducted in January 2015; success was moderate primarily because of short daylight hours.

Limited hand-bailing was conducted from 2014 through 2016, and on a quarterly basis in 2017. After further NAPL testing in 2017 showed that the transmissivity of the residual NAPL had decreased to well below 0.5 square feet per day (ft<sup>2</sup>/day), NMOCD allowed NAPL recovery to continue via hand-bailing on a monthly basis. Based on data from monthly hand-bailing events from 2018 through March 2019, measured NAPL thickness in MW-1 continued to decrease and remains below the recommended NAPL thickness of 0.5 ft for conducting additional transmissivity testing.

Results of NAPL recovery efforts since 2014, when NAPL was first observed in MW-1, are summarized below. Groundwater and NAPL measurement data are included in Table 1, and historic groundwater analytical results are found in Table 2.

**Petroleum Hydrocarbon Mass Removal to Date  
 in MW-1 at BMG Hwy 537 2009 Release**

<i>Time Period</i>	<i>Mass Petroleum Hydrocarbons Removed (lbs)</i>
August to November 2014 (MPE)	1,957
Pilot Study January 2015 (Solar Sipper)	8
April to May 2015 (MPE)	1,874
Hand-Bailing (2016-2017)	62
Hand-Bailing (2018)	12
<b><i>Cumulative Mass</i></b>	<b><i>3,913</i></b>

Residual NAPL continued to be observed in MW-1 throughout 2020 (0.01 ft in March 2020 to 0.05 ft in September 2020), and a hydrophobic absorbent sock was installed in MW-1 in June 2020. The sock has been checked periodically and replaced as needed throughout 2021.

### *1.7 Site Activities, 2019 to 2020*

#### **1.7.1 Groundwater Monitoring and Sampling, March 2019**

AES conducted groundwater monitoring and sampling in March 2019. NAPL was detected in MW-1 (0.01 ft). After fully bailing off NAPL, groundwater samples from MW-1 were submitted for laboratory analysis. The dissolved benzene concentration of 340 micrograms per liter ( $\mu\text{g/L}$ ) exceeded the WQCC standard of 5  $\mu\text{g/L}$ .

Geochemical analyses were also collected in order to assist in determining chemical injection masses for treatment of residual contaminants. Samples from MW-1 were laboratory analyzed for the following:

- Dissolved iron and manganese (USEPA Method 6020);
- Total iron and manganese (USEPA Method 6010); and
- Nitrate and sulfate (USEPA Method 300.0).

Groundwater and NAPL measurement data are included in Table 1, and historic groundwater analytical results are tabulated and presented in Tables 2 and 3.

### 1.7.2 Soil Boring Installation and Groundwater Sampling, September 2019

On September 5, 2019, AES installed two soil borings (B1 and B2) in accordance with the proposed Abatement Plan to assist in planning for chemical injections at the location. Site lithology at B1 was observed to consist of cobbles and sandy soils from the surface to 5 ft bgs, clay and sand from 5 to 25 ft bgs, and clay from 20 ft to 35 ft bgs. Boring B2 is characterized by clay with sand to 5 ft bgs, clayey sand from 5 to 25 ft bgs, and clay to 35 ft bgs. Strong odors were noted throughout both borings until the terminal depths of 35 ft bgs.

Elevated petroleum hydrocarbon BTEX contaminants above the NMOCD action levels were present in soil at B1 from the surface to 30 ft bgs, and at B2 at 15 and 20 ft bgs. Elevated TPH (as gasoline-range organics [GRO], diesel-range organics [DRO], and motor oil-range organics[MRO]) concentrations were present throughout B1, and in B2 to a depth of 25 ft bgs. Chloride concentrations were below laboratory detection levels.

On September 25, 2019, groundwater gauging and sampling occurred. Residual NAPL was observed in MW-1 (0.08 ft), and MW-5 was noted to have a damaged well casing. NAPL was effectively bailed off from MW-1 (source area well), and samples were collected for laboratory analysis of WQCC parameters listed in NMAC 20.6.2.3103 as noted in the Abatement Plan. MW-1 exceeded WQCC standards for benzene (88 µg/L), total dissolved solids (TDS) (3,500 milligrams per liter [mg/L]), sulfate (1,800 mg/L), phenols (0.028 mg/L), uranium (0.036 mg/L), total aluminum (20 mg/L), total iron (28 mg/L), and total manganese (0.68 mg/L). Groundwater concentrations were either below laboratory detection limits or below applicable WQCC standards for all other parameters analyzed.

### 1.7.3 Abatement Plan

A Stage 1 and 2 Abatement Plan was submitted to NMOCD for approval on June 14, 2019, in accordance with a request from NMOCD dated March 21, 2019. Plan approval is currently pending.

### 1.7.4 Groundwater Monitoring and Sampling, 2020

On March 25, June 23, September 23, and November 23, 2020, groundwater samples were collected from MW-1 (source area well). Additionally, on March 25 and June 23, 2020, groundwater samples were collected from MW-2 (up-gradient well). Groundwater gauging occurred at other site wells during all quarterly events to assist in calculating hydraulic gradient.

Depth to groundwater at the site gradually and slightly decreased at all wells between the March and November 2020 events. The groundwater elevation at MW-1 (31.53 ft bgs)

decreased to a near record low at MW-1 (31.65 ft bgs), and to record lows at MW-2 through MW-5, with elevations ranging from 30.84 ft bgs at MW-3 to 31.66 ft bgs at MW-5 in November 2020. Gradient was calculated to be to the southwest which is consistent with previous site data.

Residual NAPL was observed in MW-1 (0.01 ft in March 2020 to 0.05 ft in September 2020). NAPL was effectively bailed off to a sheen, a hydrophobic absorbent sock was installed in June 2020.

MW-1 exceeded WQCC standards for: benzene (220 µg/L in March, 760 µg/L in June, 9.7 µg/L in September, and 110 µg/L in November 2020) and dissolved manganese (0.52 mg/L in March and 0.66 in June 2020).

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## 2.0 Groundwater Monitoring and Sampling, 2021

Groundwater monitoring and sampling was conducted by AES in March, June, September, and December 2021. All samples were preserved in laboratory-supplied containers and stored in an insulated cooler containing ice. Samples were shipped by Hall personnel in chilled and insulated coolers at less than 6°C to the analytical laboratory.

Groundwater elevations are presented in Table 1. Water sample collection forms are presented in Appendix A, and laboratory analytical reports are in Appendix B.

### 2.1 March 2021

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on March 17, 2021, for 1<sup>st</sup> Quarter 2021. During the sampling event, a NAPL sheen was detected in MW-1 before the initial bail. NAPL was bailed from this well, and because groundwater recharge was sufficient, samples were able to be collected for laboratory analysis.

#### Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 30.71 ft bgs at MW-3 to 31.60 ft bgs at MW-5. Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing. Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. March 2021 groundwater elevations and contours are presented in Figure 3A.

### Groundwater Laboratory Analyses

Groundwater samples from MW-1 (near the release area) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters listed in NMAC 20.6.2.3103(A-C) in accordance with the proposed Abatement Plan:

- Volatile organics (VOCs) per USEPA Method 8260; and
- TPH (GRO/DRO/MRO) per USEPA Method 8015.

### Groundwater Laboratory Analytical Results

Groundwater analytical results for MW-1 showed concentrations *above WQCC standards* for the following parameters:

- Benzene - 160 µg/L (WQCC standard 5 µg/L).

TPH concentrations as GRO (8.1 mg/L) and DRO (2.6 mg/L) were also detected. TPH-MRO levels were below laboratory detection limits. Note there are no WQCC standards for these parameters. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4. The laboratory analytical report is included in Appendix B.

## 2.2 June 2021

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on June 17, 2021, for 2<sup>nd</sup> Quarter 2021. During the sampling event, residual NAPL remained in MW-1 (0.01 ft). NAPL was bailed from this well, and because groundwater recharge was sufficient, samples were able to be collected for laboratory analysis.

### Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 30.99 ft bgs at MW-3 to 31.81 ft bgs at MW-5. NAPL was measured only at MW-1 (0.01 ft). Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing. Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. June 2021 groundwater elevations and contours are presented in Figure 3B.

### Groundwater Laboratory Analyses

Groundwater samples from MW-1 (near the release area) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters listed in NMAC 20.6.2.3103(A-C) in accordance with the proposed Abatement Plan:

- BTEX per USEPA Method 8260 Short List; and
- TPH (GRO/DRO/MRO) per USEPA Method 8015.

#### Groundwater Laboratory Analytical Results

Groundwater analytical results for MW-1 showed concentrations *above WQCC standards* for the following parameters:

- Benzene - 14 µg/L (WQCC standard 5 µg/L).

TPH concentrations as GRO (0.28 mg/L) were detected, and TPH-DRO and TPH-MRO levels were below laboratory detection limits. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

### 2.3 September 2021

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on September 29, 2021, for 3<sup>rd</sup> Quarter 2021. During the sampling event, 0.02 ft of NAPL remained in MW-1. NAPL was bailed from this well, and because groundwater recharge was sufficient, samples were able to be collected for laboratory analysis.

#### Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 31.38 ft bgs at MW-3 to 32.17 ft bgs at MW-5. NAPL was measured only at MW-1 (0.02 ft) and the MW-5 well casing was again observed to be damaged. Following well measurement, approximately three well volumes were purged from wells MW-2 through MW-4, and water quality measurements were recorded following purging. Temperature readings in the wells ranged between 12.9°C in MW-3 and 13.4°C in MW-2. Specific conductivity measurements were between 2.847 mS in MW-3 up to 3.137 mS in MW-4, and groundwater pH ranged from 7.13 to 7.47. Dissolved oxygen readings were between 0.57 in MW-3 to 1.30 in MW-4, and oxidation reduction potential (ORP) readings ranged from 191.7 mV to 225.4 mV. Groundwater gradient was calculated to be 0.005 ft/ft in a southwestern direction. September 2021 groundwater elevations and contours are presented in Figure 3C.

#### Groundwater Laboratory Analyses

Groundwater samples from MW-1 (near the release area) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters listed in NMAC 20.6.2.3103(A-C) in accordance with the proposed Abatement Plan:

- VOCs per USEPA Method 8260;

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- TPH (GRO/DRO/MRO) per USEPA Method 8015;
- Total phenols per USEPA Method SW-846 9067; and
- Dissolved manganese per USEPA Method 200.7.

#### Groundwater Laboratory Analytical Results

Groundwater analytical results for MW-1 showed concentrations *above WQCC standards* for the following parameters:

- Benzene - 190 µg/L (WQCC standard 5 µg/L); and
- Dissolved manganese - 0.42 mg/L.

TPH concentrations as GRO (1.8 mg/L) and DRO (1.1 mg/L) were detected, and TPH-MRO and phenol levels were below laboratory detection limits. Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

#### *2.4 December 2021*

Groundwater monitoring of all site wells and sampling of monitor well MW-1 was conducted by AES on December 14, 2021, for 4<sup>th</sup> Quarter 2021. During the sampling event, residual NAPL remained in MW-1 (0.01 ft). NAPL was bailed from this well, and because groundwater recharge was sufficient, samples were able to be collected for laboratory analysis.

#### Groundwater Elevations and Water Quality Measurements

Depth to groundwater at the site ranged from 32.0 ft bgs at MW-1 to 32.5 ft bgs at MW-3 and MW-4. NAPL was measured only at MW-1 (0.01 ft). Field water quality measurements could not be obtained from MW-1 due to a NAPL sheen remaining after bailing. December 2021 groundwater elevations and contours are presented in Figure 3D.

#### Groundwater Laboratory Analyses

Groundwater samples from MW-1 (near the release area) were submitted to Hall in Albuquerque, New Mexico, for analysis of the following parameters:

- VOCs per USEPA Method 8260.

#### Groundwater Laboratory Analytical Results

Groundwater analytical results for MW-1 showed concentrations *above WQCC standards* for the following parameters:

- Benzene - 54 µg/L (WQCC standard 5 µg/L).

Groundwater analytical results are tabulated and presented in Tables 2 and 3; and are also presented on Figure 4.

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### 3.0 Discussion

Under NMAC 9.15.30 for Abatement Plans, groundwater sampling for parameters listed in NMAC 20.6.2.3103(A-C) are required to identify parameters that may be contaminants of concern. Comprehensive sampling for all parameters was first completed in MW-1 (source/release area) in September 2019, and exceedances were identified for benzene, uranium, sulfate, TDS, total phenols, and dissolved manganese. Subsequent sampling at MW-2 (upgradient) conducted in March 2020 reported sulfate and TDS concentrations consistent with naturally occurring background concentrations and with concentrations in MW-1.

- **Benzene** - concentrations have been variable but overall decreasing in MW-1; benzene concentrations since 2019 are presented in Graph 1.
- **Manganese** – dissolved phase concentrations at MW-1 (source area) remain above natural background levels, with a concentration reported at 0.42 mg/L.

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### 4.0 Conclusions and Recommendations

On March 17, June 17, September 29, and December 14, 2021, groundwater samples were collected from MW-1 (source area well). Groundwater gauging occurred at other site wells to assist in calculating hydraulic gradient.

Based on field observations, field screening, and laboratory analytical results from March through December 2021, the following is concluded:

1. Depth to groundwater at the site rebounded slightly between the November 2020 and March 2021 sampling events, but then decreased to record lows in each well in subsequent events, with December 2021 depths to groundwater ranging from 32.01 ft bgs at MW-1 to 32.5 ft bgs at MW-3 and MW-4. Gradient was calculated to be to the southwest and is consistent with previous site data;

2. Residual NAPL was observed in MW-1 (sheen in March to 0.02 ft in September 2021). NAPL was effectively bailed off to a sheen during all four events, and samples were collected in from MW-1. In addition, a hydrophobic absorbent sock installed in June 2020 continues to be utilized in MW-1;
3. MW-1 exceeded the WQCC standard of 5 µg/L for benzene with 160 µg/L in March, 14 µg/L in June, 190 µg/L in September, and 54 µg/L in December. This well surpassed the WQCC standard of 0.2 mg/L for dissolved manganese with 0.42 mg/L in September.

Based on groundwater concentrations above WQCC standards, AES recommends continued groundwater monitoring and sampling in **MW-1** for:

1. Quarterly: Volatile organics (USEPA Method 8260);
2. Annual: Phenols (SW-846 9067) and dissolved manganese (USEPA Method 200.7).
3. Gauge all wells for depth to groundwater and water quality parameters on an annual basis.
4. Replace absorbent sock in MW-1 as needed.

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## 5.0 Scheduled Site Activities

In accordance with the submitted Stage 1 and 2 Abatement Plan, the following site activities are currently scheduled for 2022:

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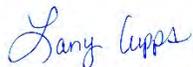
<b><i>Months from Stage 1 and 2 Abatement Plan Approval and/or Scheduled Month for Work</i></b>	<b><i>Abatement Task Due</i></b>
0	NMOCD Approval of Stage 1 and Stage 2 Abatement Plan
0.5	Public Notice Posted
March 2022	Groundwater sampling (MW-1) for VOCs per 8260;

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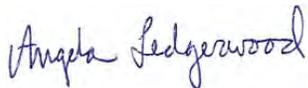
June 2022	Groundwater sampling (MW-1) for VOCs per 80260;
September 2022	Quarterly groundwater gauging and water quality measurements all wells; Groundwater sampling (MW-1) for VOCs per 8260; phenols; and dissolved Mn;
December 2022	Groundwater sampling (MW-1) for VOCs per 8260;
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If you have any questions regarding this report or site conditions, please do not hesitate to contact Angela Ledgerwood at (720) 537-6650 or Elizabeth McNally at (505) 564-2281.

Respectfully Submitted,



Lany Cupps  
Environmental Coordinator



Angela Ledgerwood  
Senior Project Manager



Elizabeth McNally, P.E.  
Principal

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## Tables

1. Summary of Groundwater Measurement and Water Quality Data
2. Summary of Groundwater Analytical Results – VOCs and TPH
3. Summary of Groundwater Analytical Results – NMAC Parameters

## Figures

1. Topographic Site Location Map
2. Aerial Site Map
- 3A. General Site Map and Groundwater Gradient Map, March 2021
- 3B. General Site Map and Groundwater Gradient Map, June 2021
- 3C. General Site Map and Groundwater Gradient Map, September 2021
- 3D. General Site Map and Groundwater Gradient Map, December 2021
4. Groundwater Contaminant Concentrations, 2021

## Graphs

1. Dissolved Phase Benzene and Groundwater Elevations Over Time – MW-1

## Appendices

- A. Groundwater Sample Collection Forms (March, June, September, and December 2021)
- B. Laboratory Analytical Reports (Hall No. 2103962, 2106A63, 2109H26, 2112A03)

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Craig Schmitz, Private Landowner (hard copy)  
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Tables

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	05-Mar-09	7064.66		27.95		7036.71		12.29	5.231	1.27	6.64	-36.1
MW-1	11-Sep-09	7064.66		28.66		7036.00		13.15	7.016	0.65	8.60	-118.5
MW-1	15-Jan-10	7064.66		28.91		7035.75		13.30	3.714	2.74	6.79	-167.8
MW-1	15-Oct-10	7064.66		29.20		7035.46		13.77	4.642	1.51	7.14	-17.9
MW-1	21-Jan-11	7064.66		29.28		7035.38		12.42	4.246	1.63	6.92	-85.8
MW-1	12-May-11	7064.66		28.93		7035.73		13.08	3.830	2.95	7.00	-96.1
MW-1	12-Aug-11	7064.66		29.67		7034.99		14.03	4.637	3.83	6.94	-107.9
MW-1	16-Nov-11	7064.66		29.82		7034.84		11.57	4.385	2.89	5.35	-69.7
MW-1	21-Feb-12	7064.66		29.77		7034.89		12.01	4.063	1.09	6.78	-123.9
MW-1	24-May-12	7064.66		29.77		7034.89		12.94	4.563	1.04	6.95	-46.5
MW-1	10-Sep-12	7064.66		30.14		7034.52		14.63	4.705	1.16	7.12	-15.7
MW-1	04-Dec-12	7064.66		30.33		7034.33		12.55	4.430	1.30	7.11	-7.1
MW-1	26-Mar-13	7064.66		29.87		7034.79		12.20	4.556	1.66	6.72	-5.9
MW-1	01-Jul-13	7064.66		30.41		7034.25		13.52	4.372	3.61	7.18	9.2
MW-1	25-Sep-13	7064.66		29.51		7035.15		12.62	8.264	1.64	7.21	-48.6
MW-1	14-Jan-14	7064.66		30.10		7034.56		12.78	4.905	1.75	NM	-59.5
MW-1	04-Apr-14	7064.66	29.84	31.02	1.18	7033.64	7034.67	Not Measured - NAPL Present (1.18 ft thickness)				
MW-1	26-Sep-14	7064.66	30.25	30.90	0.65	7033.76	7034.33	Not Measured - NAPL Present (0.65 ft thickness)				
MW-1	03-Dec-14	7064.66	30.31	31.47	1.16	7033.19	7034.20	Not Measured - NAPL Present (1.16 ft thickness)				
MW-1	27-Mar-15	7064.66	29.35	29.63	0.28	7035.03	7035.27	Not Measured - NAPL Present (0.28 ft thickness)				
MW-1	08-Dec-15	7064.66	29.84	31.48	1.64	7033.18	7034.61	Not Measured - NAPL Present (1.64 ft thickness)				
MW-1	02-Jun-16	7064.66	29.56	31.21	1.65	7033.45	7034.89	Not Measured - NAPL Present (1.65 ft thickness)				
MW-1	20-Oct-16	7064.66	30.20	30.94	0.74	7033.72	7034.36	Not Measured - NAPL Present (0.74 ft thickness)				
MW-1	26-Jan-17	7064.66	29.77	30.38	0.61	7034.28	7034.81	Not Measured - NAPL Present (0.61 ft thickness)				
MW-1	14-Apr-17	7064.66	29.46	29.73	0.27	7034.93	7035.16	Not Measured - NAPL Present (0.27 ft thickness)				
MW-1	14-Aug-17	7064.66	30.08	31.30	1.22	7033.36	7034.42	Not Measured - NAPL Present (1.22 ft thickness)				

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1	28-Sep-17	7064.66	30.43	31.65	1.22	7033.01	7034.07	Not Measured - NAPL Present (1.22 ft thickness)				
MW-1	07-Dec-17	7064.66	30.01	30.39	0.38	7034.27	7034.60	Not Measured - NAPL Present (0.38 ft thickness)				
MW-1	09-Jan-18	7064.66	30.12	30.55	0.43	7034.11	7034.48	Not Measured - NAPL Present (0.43 ft thickness)				
MW-1	12-Feb-18	7064.66	30.07	30.44	0.37	7034.22	7034.54	Not Measured - NAPL Present (0.37 ft thickness)				
MW-1	05-Mar-18	7064.66	30.12	30.31	0.19	7034.35	7034.52	Not Measured - NAPL Present (0.19 ft thickness)				
MW-1	05-Apr-18	7064.66	30.13	30.30	0.17	7034.36	7034.51	Not Measured - NAPL Present (0.17 ft thickness)				
MW-1	18-May-18	7064.66	30.18	30.38	0.20	7034.28	7034.45	Not Measured - NAPL Present (0.20 ft thickness)				
MW-1	12-Jun-18	7064.66	30.34	31.06	0.72	7033.60	7034.23	Not Measured - NAPL Present (0.72 ft thickness)				
MW-1	09-Jul-18	7064.66	30.60	30.97	0.37	7033.69	7034.01	Not Measured - NAPL Present (0.37 ft thickness)				
MW-1	13-Aug-18	7064.66	30.73	31.18	0.45	7033.48	7033.87	Not Measured - NAPL Present (0.45 ft thickness)				
MW-1	24-Sep-18	7064.66	30.99	31.31	0.32	7033.35	7033.63	Not Measured - NAPL Present (0.32 ft thickness)				
MW-1	26-Oct-18	7064.66	31.04	31.17	0.13	7033.49	7033.60	Not Measured - NAPL Present (0.13 ft thickness)				
MW-1	19-Nov-18	7064.66	31.05	31.13	0.08	7033.53	7033.60	Not Measured - NAPL Present (0.08 ft thickness)				
MW-1	14-Dec-18	7064.66	31.04	31.08	0.04	7033.58	7033.61	Not Measured - NAPL Present (0.04 ft thickness)				
MW-1	15-Jan-19	7064.66		29.90		7034.76		NM	NM	NM	NM	NM
MW-1	26-Mar-19	7064.66	29.52	29.53	0.01	7035.13	7035.14	13.7	3.297	1.16	7.44	-25.3
MW-1	25-Sep-19	7064.66	30.91	30.99	0.08	7033.67	7033.74	Not Measured - NAPL Present (0.08 ft thickness)				
MW-1	25-Mar-20	7064.66	30.35	30.36	0.01	7034.30	7034.31	Not Measured - NAPL Present (0.01 ft thickness)				
MW-1	23-Jun-20	7064.66	30.94	30.97	0.03	7033.69	7033.72	Not Measured - NAPL Present (0.03 ft thickness)				
MW-1	23-Sep-20	7064.66	31.45	31.50	0.05	7033.16	7033.20	Not Measured - NAPL Present (0.05 ft thickness)				
MW-1	23-Nov-20	7064.66	31.51	31.53	0.02	7033.13	7033.15	Not Measured - NAPL Present (0.02 ft thickness)				
MW-1	17-Mar-21	7064.66		31.44		7033.22		Not Measured - NAPL Present (sheen)				
MW-1	17-Jun-21	7064.66	31.71	31.72	0.01	7032.94	7032.95	Not Measured - NAPL Present (0.01 ft thickness)				
MW-1	29-Sep-21	7064.66	32.07	32.09	0.02	7032.57	7032.59	Not Measured - NAPL Present (0.02 ft thickness)				
MW-1	14-Dec-21	7064.66	32.00	32.01	0.01	7032.65	7032.66	Not Measured - NAPL Present (0.01 ft thickness)				

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

<b>Well ID</b>	<b>Date Measured</b>	<b>Top of Casing Elevation (ft amsl)</b>	<b>Depth to NAPL (ft)</b>	<b>Depth to Water (ft)</b>	<b>NAPL Thickness (ft)</b>	<b>Water Level Elevation (ft amsl)</b>	<b>Corrected GW Elev. (ft)</b>	<b>Temp. (°C)</b>	<b>Specific Conduct. (mS)</b>	<b>Dissolved Oxygen (mg/L)</b>	<b>pH</b>	<b>ORP (mV)</b>
MW-2	05-Mar-09	7064.65		27.69		7036.96		12.00	4.567	2.59	6.82	-29.8
MW-2	10-Sep-09	7064.65		28.38		7036.27		12.93	6.480	1.09	7.58	62.2
MW-2	15-Jan-10	7064.65		28.62		7036.03		12.49	3.604	2.10	7.57	-70.3
MW-2	14-Oct-10	7064.65		28.91		7035.74		12.49	3.968	1.71	7.40	98.9
MW-2	21-Jan-11	7064.65		28.99		7035.66		11.44	4.045	1.62	8.56	-6.2
MW-2	12-May-11	7064.65		28.63		7036.02		13.14	4.087	1.43	7.67	-66.7
MW-2	12-Aug-11	7064.65		29.37		7035.28		14.08	4.102	4.36	7.09	160.2
MW-2	16-Nov-11	7064.65		29.52		7035.13		11.60	4.021	2.48	7.51	176.2
MW-2	21-Feb-12	7064.65		29.46		7035.19		NM	NM	NM	NM	NM
MW-2	24-May-12	7064.65		29.47		7035.18		NM	NM	NM	NM	NM
MW-2	10-Sep-12	7064.65		29.84		7034.81		NM	NM	NM	NM	NM
MW-2	04-Dec-12	7064.65		30.03		7034.62		NM	NM	NM	NM	NM
MW-2	26-Mar-13	7064.65		29.60		7035.05		NM	NM	NM	NM	NM
MW-2	27-Jun-13	7064.65		30.11		7034.54		NM	NM	NM	NM	NM
MW-2	25-Sep-13	7064.65		29.28		7035.37		NM	NM	NM	NM	NM
MW-2	14-Jan-14	7064.65		29.81		7034.84		NM	NM	NM	NM	NM
MW-2	04-Apr-14	7064.65		29.84		7034.81		NM	NM	NM	NM	NM
MW-2	10-Sep-14	7064.65		29.88		7034.77		NM	NM	NM	NM	NM
MW-2	03-Dec-14	7064.65		30.24		7034.41		NM	NM	NM	NM	NM
MW-2	27-Mar-15	7064.65		29.16		7035.49		NM	NM	NM	NM	NM
MW-2	08-Dec-15	7064.65		29.90		7034.75		NM	NM	NM	NM	NM
MW-2	02-Jun-16	7064.65		29.57		7035.08		NM	NM	NM	NM	NM
MW-2	20-Oct-16	7064.65		30.02		7034.63		NM	NM	NM	NM	NM
MW-2	26-Jan-17	7064.65		29.61		7035.04		NM	NM	NM	NM	NM
MW-2	14-Apr-17	7064.65		29.23		7035.42		NM	NM	NM	NM	NM
MW-2	14-Aug-17	7064.65		30.01		7034.64		12.91	3.907	2.22	7.31	168.4

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	26-Mar-19	7064.65		29.29		7035.36		NM	NM	NM	NM	NM
MW-2	25-Sep-19	7064.65		30.66		7033.99		NM	NM	NM	NM	NM
MW-2	25-Mar-20	7064.65		30.04		7034.61		12.2	3.78	1.33	7.17	156.6
MW-2	23-Jun-20	7064.65		30.65		7034.00		13.1	3.76	1.02	7.24	149.7
MW-2	23-Sep-20	7064.65		31.16		7033.49		NM	NM	NM	NM	NM
MW-2	23-Nov-20	7064.65		31.25		7033.40		NM	NM	NM	NM	NM
MW-2	17-Mar-21	7064.65		31.12		7033.53		NM	NM	NM	NM	NM
MW-2	17-Jun-21	7064.65		31.38		7033.27		NM	NM	NM	NM	NM
MW-2	29-Sep-21	7064.65		31.76		7032.89		13.4	2.892	0.69	7.47	225.4
MW-2	14-Dec-21	7064.65		32.4		7032.25		NM	NM	NM	NM	NM
MW-3	05-Mar-09	7064.01		27.16		7036.85		12.29	4.310	2.17	6.66	-28.2
MW-3	11-Sep-09	7064.01		27.99		7036.02		13.50	6.080	0.53	9.43	-163.6
MW-3	15-Jan-10	7064.01		28.22		7035.79		11.99	3.607	1.85	7.27	-222.5
MW-3	14-Oct-10	7064.01		28.54		7035.47		12.41	4.180	1.46	7.24	-53.1
MW-3	21-Jan-11	7064.01		28.60		7035.41		11.92	4.224	1.60	7.20	-122.5
MW-3	12-May-11	7064.01		28.21		7035.80		12.56	4.172	2.25	7.28	-145.8
MW-3	12-Aug-11	7064.01		29.02		7034.99		13.32	4.372	2.35	7.17	-158.5
MW-3	16-Nov-11	7064.01		29.14		7034.87		10.87	4.326	2.17	6.53	-105.7
MW-3	21-Feb-12	7064.01		29.07		7034.94		11.36	4.481	1.01	7.09	-118.0
MW-3	24-May-12	7064.01		29.09		7034.92		13.30	4.325	0.81	7.07	-70.3
MW-3	10-Sep-12	7064.01		29.45		7034.56		13.26	4.377	2.49	7.23	-42.7
MW-3	04-Dec-12	7064.01		29.65		7034.36		12.08	4.294	0.69	7.26	-46.8
MW-3	26-Mar-13	7064.01		29.12		7034.89		11.93	2.337	5.85	7.46	59.3
MW-3	01-Jul-13	7064.01		29.74		7034.27		14.64	4.119	11.22	7.69	-36.8
MW-3	25-Sep-13	7064.01		28.65		7035.36		12.50	7.764	2.08	7.22	-79.5

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-3	14-Jan-14	7064.01		29.38		7034.63		12.23	4.764	1.74	NM	-59.9
MW-3	10-Sep-14	7064.01		29.39		7034.62		NM	NM	NM	NM	NM
MW-3	26-Sep-14	7064.01		13.68		7050.33		12.88	2.718	2.69	7.11	27.2
MW-3	03-Dec-14	7064.01		29.83		7034.18		NM	NM	NM	NM	NM
MW-3	27-Mar-15	7064.01		28.60		7035.41		NM	NM	NM	NM	NM
MW-3	08-Dec-15	7064.01		29.45		7034.56		NM	NM	NM	NM	NM
MW-3	02-Jun-16	7064.01		29.15		7034.86		12.71	4.064	1.58	7.08	-3.2
MW-3	20-Oct-16	7064.01		29.60		7034.41		NM	NM	NM	NM	NM
MW-3	26-Jan-17	7064.01		29.09		7034.92		11.19	4.024	1.90	7.18	11.5
MW-3	14-Apr-17	7064.01		28.70		7035.31		NM	NM	NM	NM	NM
MW-3	14-Aug-17	7064.01		29.57		7034.44		12.79	4.041	2.09	7.22	33.6
MW-3	26-Mar-19	7064.01		28.64		7035.37		NM	NM	NM	NM	NM
MW-3	25-Sep-19	7064.01		30.23		7033.78		NM	NM	NM	NM	NM
MW-3	25-Mar-20	7064.01		29.56		7034.45		NM	NM	NM	NM	NM
MW-3	23-Jun-20	7064.01		30.26		7033.75		NM	NM	NM	NM	NM
MW-3	23-Sep-20	7064.01		30.78		7033.23		NM	NM	NM	NM	NM
MW-3	23-Nov-20	7064.01		30.84		7033.17		NM	NM	NM	NM	NM
MW-3	17-Mar-21	7064.01		30.71		7033.30		NM	NM	NM	NM	NM
MW-3	17-Jun-21	7064.01		30.99		7033.02		NM	NM	NM	NM	NM
MW-3	29-Sep-21	7064.01		31.38		7032.63		12.9	2.847	0.57	7.18	217.6
MW-3	14-Dec-21	7064.01		32.5		7031.51		NM	NM	NM	NM	NM
MW-4	05-Mar-09	7063.72		27.39		7036.33		12.36	4.760	1.72	6.58	-29.2
MW-4	06-Apr-09	7063.72		27.58		7036.14		11.87	4.599	2.06	6.75	18.0
MW-4	10-Sep-09	7063.72		28.12		7035.60		13.09	6.337	0.81	6.98	54.6
MW-4	15-Jan-10	7063.72		28.34		7035.38		11.65	3.812	2.78	7.20	-125.1

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-4	15-Oct-10	7063.72		28.64		7035.08		12.52	4.491	1.42	7.13	42.8
MW-4	21-Jan-11	7063.72		28.72		7035.00		11.90	4.748	1.14	7.19	5.4
MW-4	12-May-11	7063.72		28.39		7035.33		13.11	4.576	2.58	7.29	-25.8
MW-4	12-Aug-11	7063.72		29.10		7034.62		13.89	4.759	3.98	6.85	74.9
MW-4	16-Nov-11	7063.72		29.26		7034.46		11.66	4.725	2.15	7.11	153.0
MW-4	21-Feb-12	7063.72		29.22		7034.50		10.27	4.927	1.02	7.02	-11.3
MW-4	24-May-12	7063.72		29.23		7034.49		13.75	4.687	1.04	6.98	39.3
MW-4	10-Sep-12	7063.72		29.58		7034.14		NM	NM	NM	NM	NM
MW-4	04-Dec-12	7063.72		29.77		7033.95		NM	NM	NM	NM	NM
MW-4	26-Mar-13	7063.72		29.33		7034.39		NM	NM	NM	NM	NM
MW-4	27-Jun-13	7063.72		29.85		7033.87		NM	NM	NM	NM	NM
MW-4	25-Sep-13	7063.72		28.96		7034.76		NM	NM	NM	NM	NM
MW-4	14-Jan-14	7063.72		29.54		7034.18		NM	NM	NM	NM	NM
MW-4	04-Apr-14	7063.72		29.54		7034.18		12.16	0.435	2.86	6.90	89.4
MW-4	10-Sep-14	7063.72		29.60		7034.12		NM	NM	NM	NM	NM
MW-4	03-Dec-14	7063.72		29.97		7033.75		NM	NM	NM	NM	NM
MW-4	27-Mar-15	7063.72		28.89		7034.83		NM	NM	NM	NM	NM
MW-4	08-Dec-15	7063.72		29.58		7034.14		NM	NM	NM	NM	NM
MW-4	02-Jun-16	7063.72		29.28		7034.44		NM	NM	NM	NM	NM
MW-4	20-Oct-16	7063.72		29.71		7034.01		NM	NM	NM	NM	NM
MW-4	26-Jan-17	7063.72		29.28		7034.44		NM	NM	NM	NM	NM
MW-4	14-Apr-17	7063.72		28.92		7034.80		NM	NM	NM	NM	NM
MW-4	14-Aug-17	7063.72		29.69		7034.03		13.07	4.219	1.98	7.17	109.7
MW-4	26-Mar-19	7063.72		28.99		7034.73		NM	NM	NM	NM	NM
MW-4	25-Sep-19	7063.72		30.35		7033.37		NM	NM	NM	NM	NM
MW-4	25-Mar-20	7063.72		29.78		7033.94		NM	NM	NM	NM	NM

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-4	23-Jun-20	7063.72		30.39		7033.33		NM	NM	NM	NM	NM
MW-4	23-Sep-20	7063.72		30.88		7032.84		NM	NM	NM	NM	NM
MW-4	23-Nov-20	7063.72		30.95		7032.77		NM	NM	NM	NM	NM
MW-4	17-Mar-21	7063.72		30.88		7032.84		NM	NM	NM	NM	NM
MW-4	17-Jun-21	7063.72		31.10		7032.62		NM	NM	NM	NM	NM
MW-4	29-Sep-21	7063.72		31.47		7032.25		13.2	3.137	1.30	7.13	191.7
MW-4	14-Dec-21	7063.72		32.5		7031.22		NM	NM	NM	NM	NM
MW-5	05-Mar-09	7064.79		28.24		7036.55		11.80	6.088	3.89	6.61	-17.3
MW-5	10-Sep-09	7064.79		28.87		7035.92		12.78	7.785	1.22	7.09	60.5
MW-5	15-Jan-10	7064.79		29.10		7035.69		11.19	4.288	1.93	7.27	-85.8
MW-5	14-Oct-10	7064.79		29.38		7035.41		12.34	4.725	1.24	7.23	98.1
MW-5	21-Jan-11	7064.79		29.47		7035.32		11.93	5.038	2.71	7.31	103.9
MW-5	12-May-11	7064.79		29.17		7035.62		12.40	4.957	2.44	7.42	-44.4
MW-5	12-Aug-11	7064.79		29.84		7034.95		13.73	4.968	3.87	6.83	189.8
MW-5	16-Nov-11	7064.79		30.00		7034.79		11.16	4.814	4.47	7.18	290.4
MW-5	21-Feb-12	7064.79		29.96		7034.83		NM	NM	NM	NM	NM
MW-5	25-May-12	7064.79		29.96		7034.83		NM	NM	NM	NM	NM
MW-5	10-Sep-12	7064.79		30.31		7034.48		NM	NM	NM	NM	NM
MW-5	04-Dec-12	7064.79		30.52		7034.27		NM	NM	NM	NM	NM
MW-5	26-Mar-13	7064.79		30.14		7034.65		NM	NM	NM	NM	NM
MW-5	27-Jun-13	7064.79		30.60		7034.19		NM	NM	NM	NM	NM
MW-5	25-Sep-13	7064.79		29.87		7034.92		NM	NM	NM	NM	NM
MW-5	14-Jan-14	7064.79		30.31		7034.48		NM	NM	NM	NM	NM
MW-5	04-Apr-14	7064.79		30.30		7034.49		NM	NM	NM	NM	NM
MW-5	10-Sep-14	7064.79		30.37		7034.42		NM	NM	NM	NM	NM

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-5	03-Dec-14	7064.79		30.70		7034.09		NM	NM	NM	NM	NM
MW-5	27-Mar-15	7064.79		29.72		7035.07		NM	NM	NM	NM	NM
MW-5	08-Dec-15	7064.79		30.36		7034.43		NM	NM	NM	NM	NM
MW-5	02-Jun-16	7064.79		30.03		7034.76		NM	NM	NM	NM	NM
MW-5	20-Oct-16	7064.79		30.47		7034.32		NM	NM	NM	NM	NM
MW-5	26-Jan-17	7064.79		30.10		7034.69		NM	NM	NM	NM	NM
MW-5	14-Aug-17	7064.79		30.45		7034.34		Unable to sample - well obstructed				
MW-5	26-Mar-19	7064.79		29.89		7034.90		NM	NM	NM	NM	NM
MW-5	25-Sep-19	7064.79		31.06		7033.73		NM - Well Casing Damaged				
MW-5	25-Mar-20	7064.79		30.56		7034.23		NM - Well Casing Damaged				
MW-5	23-Jun-20	7064.79		31.09		7033.70		NM - Well Casing Damaged				
MW-5	23-Sep-20	7064.79		31.58		7033.21		NM	NM	NM	NM	NM
MW-5	23-Nov-20	7064.79		31.66		7033.13		NM	NM	NM	NM	NM
MW-5	17-Mar-21	7064.79		31.60		7033.19		NM	NM	NM	NM	NM
MW-5	17-Jun-21	7064.79		31.81		7032.98		NM	NM	NM	NM	NM
MW-5	29-Sep-21	7064.79		32.17		7032.62		NM - Well Casing Damaged				
MW-5	14-Dec-21	7064.79		NM		--		NM - Well Casing Damaged				
MW-6	05-Mar-09	7049.54		12.67		7036.87		9.21	4.967	4.30	6.53	4.6
MW-6	10-Sep-09	7049.54		13.90		7035.64		11.85	6.287	1.15	7.12	75.9
MW-6	15-Jan-10	7049.54		14.02		7035.52		10.81	3.789	2.46	7.35	-66.7
MW-6	15-Oct-10	7049.54		14.39		7035.15		12.45	4.353	1.40	7.24	20.7
MW-6	21-Jan-11	7049.54		14.42		7035.12		11.59	4.516	3.10	7.32	-37.3
MW-6	12-May-11	7049.54		14.00		7035.54		10.69	4.349	1.89	7.47	-24.9
MW-6	12-Aug-11	7049.54		14.93		7034.61		11.99	4.492	4.24	7.56	0.2
MW-6	16-Nov-11	7049.54		14.99		7034.55		12.01	4.398	2.74	6.46	182.1

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-6	21-Feb-12	7049.54		14.90		7034.64		NM	NM	NM	NM	NM
MW-6	25-May-12	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	10-Sep-12	7049.54		NM		NM		NM - Well is Dry				
MW-6	04-Dec-12	7049.54		15.48		7034.06		NM	NM	NM	NM	NM
MW-6	26-Mar-13	7049.54		14.79		7034.75		NM	NM	NM	NM	NM
MW-6	27-Jun-13	7049.54		15.60		7033.94		NM	NM	NM	NM	NM
MW-6	25-Sep-13	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	14-Jan-14	7049.54		15.17		7034.37		NM	NM	NM	NM	NM
MW-6	04-Apr-14	7049.54		15.20		7034.34		NM	NM	NM	NM	NM
MW-6	10-Sep-14	7049.54		15.06		7034.48		NM	NM	NM	NM	NM
MW-6	03-Dec-14	7049.54		15.66		7033.88		NM	NM	NM	NM	NM
MW-6	27-Mar-15	7049.54		14.09		7035.45		NM	NM	NM	NM	NM
MW-6	08-Dec-15	7049.54		15.21		7034.33		NM	NM	NM	NM	NM
MW-6	02-Jun-16	7049.54		14.92		7034.62		NM	NM	NM	NM	NM
MW-6	20-Oct-16	7049.54		15.41		7034.13		NM	NM	NM	NM	NM
MW-6	26-Jan-17	7049.54		14.69		7034.85		NM	NM	NM	NM	NM
MW-6	07-Aug-17	7064.10						Plugged and Abandoned				
MW-7	06-Mar-09	7062.80		26.34		7036.46		11.40	4.951	2.17	6.50	-3.3
MW-7	10-Sep-09	7062.80		27.23		7035.57		12.61	6.288	1.03	7.05	51.0
MW-7	15-Jan-10	7062.80		27.44		7035.36		11.02	3.820	2.92	7.27	-66.3
MW-7	14-Oct-10	7062.80		27.76		7035.04		12.79	4.047	1.24	7.19	68.6
MW-7	21-Jan-11	7062.80		27.82		7034.98		10.79	4.205	2.22	7.37	42.0
MW-7	12-May-11	7062.80		27.46		7035.34		12.80	4.118	1.73	7.38	-70.4
MW-7	12-Aug-11	7062.80		28.24		7034.56		13.88	4.119	2.90	7.30	112.8
MW-7	16-Nov-11	7062.80		28.38		7034.42		11.24	4.077	2.75	6.32	168.0

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-7	21-Feb-12	7062.80		28.31		7034.49		NM	NM	NM	NM	NM
MW-7	24-May-12	7062.80		28.34		7034.46		NM	NM	NM	NM	NM
MW-7	10-Sep-12	7062.80		28.69		7034.11		NM	NM	NM	NM	NM
MW-7	04-Dec-12	7062.80		28.86		7033.94		NM	NM	NM	NM	NM
MW-7	26-Mar-13	7062.80		28.33		7034.47		NM	NM	NM	NM	NM
MW-7	27-Jun-13	7062.80		28.97		7033.83		NM	NM	NM	NM	NM
MW-7	25-Sep-13	7062.80		27.78		7035.02		NM	NM	NM	NM	NM
MW-7	14-Jan-14	7062.80		28.61		7034.19		NM	NM	NM	NM	NM
MW-7	04-Apr-14	7062.80		28.62		7034.18		NM	NM	NM	NM	NM
MW-7	10-Sep-14	7062.80		28.58		7034.22		NM	NM	NM	NM	NM
MW-7	03-Dec-14	7062.80		29.02		7033.78		NM	NM	NM	NM	NM
MW-7	27-Mar-15	7062.80		27.76		7035.04		NM	NM	NM	NM	NM
MW-7	08-Dec-15	7062.80		28.62		7034.18		NM	NM	NM	NM	NM
MW-7	02-Jun-16	7062.80		28.34		7034.46		NM	NM	NM	NM	NM
MW-7	20-Oct-16	7062.80		28.79		7034.01		NM	NM	NM	NM	NM
MW-7	26-Jan-17	7062.80		28.24		7034.56		NM	NM	NM	NM	NM
MW-7	07-Aug-17	7064.10										
MW-8	06-Mar-09	7063.27		27.49		7035.78		11.91	4.731	2.14	6.40	-4.4
MW-8	10-Sep-09	7063.27		28.14		7035.13		13.53	5.987	1.12	8.51	-93.2
MW-8	15-Jan-10	7063.27		28.39		7034.88		11.43	2.891	1.86	6.68	-162.2
MW-8	15-Oct-10	7063.27		28.70		7034.57		12.80	4.017	1.21	7.04	-39.1
MW-8	21-Jan-11	7063.27		28.80		7034.47		12.30	4.002	1.55	7.08	-91.2
MW-8	12-May-11	7063.27		28.52		7034.75		13.16	3.966	1.60	7.16	-121.2
MW-8	12-Aug-11	7063.27		29.19		7034.08		13.85	4.194	3.45	6.97	-148.3
MW-8	16-Nov-11	7063.27		29.35		7033.92		11.49	4.218	2.57	6.49	-115.4

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-8	21-Feb-12	7063.27		29.31		7033.96		12.21	4.500	0.88	6.96	-116.0
MW-8	24-May-12	7063.27		29.34		7033.93		13.43	4.402	0.65	6.93	-41.2
MW-8	10-Sep-12	7063.27		29.68		7033.59		12.98	4.499	1.34	7.12	-27.3
MW-8	04-Dec-12	7063.27		29.87		7033.40		12.53	3.045	3.78	7.13	-3.1
MW-8	26-Mar-13	7063.27		29.47		7033.80		12.65	4.449	4.10	6.95	22.0
MW-8	27-Jun-13	7063.27		29.97		7033.30		14.39	6.908	8.14	7.01	-43.6
MW-8	25-Sep-13	7063.27		29.14		7034.13		NM	NM	NM	NM	NM
MW-8	14-Jan-14	7063.27		29.65		7033.62		NM	NM	NM	NM	NM
MW-8	04-Apr-14	7063.27		29.64		7033.63		13.14	0.424	1.70	6.80	-14.9
MW-8	04-Apr-14	7063.27		29.68		7033.59		NM	NM	NM	NM	NM
MW-8	03-Dec-14	7063.27		30.00		7033.27		NM	NM	NM	NM	NM
MW-8	27-Mar-15	7063.27		29.02		7034.25		NM	NM	NM	NM	NM
MW-8	08-Dec-15	7063.27		29.59		7033.68		NM	NM	NM	NM	NM
MW-8	02-Jun-16	7063.27		29.31		7033.96		NM	NM	NM	NM	NM
MW-8	20-Oct-16	7063.27		29.72		7033.55		NM	NM	NM	NM	NM
MW-8	26-Jan-17	7063.27		29.33		7033.94		NM	NM	NM	NM	NM
MW-8	07-Aug-17	7064.10										
MW-9	06-Mar-09	7062.60		27.60		7035.00		9.47	5.418	5.12	6.39	-1.8
MW-9	06-Apr-09	7062.60		27.74		7034.86		11.86	5.174	2.24	6.72	25.2
MW-9	10-Sep-09	7062.60		28.19		7034.41		13.10	7.257	0.86	7.03	-129.8
MW-9	15-Jan-10	7062.60		28.42		7034.18		10.89	3.960	2.29	7.13	-187.4
MW-9	15-Oct-10	7062.60		28.74		7033.86		12.85	4.561	1.89	7.17	-74.4
MW-9	21-Jan-11	7062.60		28.85		7033.75		12.67	4.452	1.34	7.16	-90.8
MW-9	12-May-11	7062.60		28.61		7033.99		13.12	4.120	2.31	7.28	-94.1
MW-9	12-Aug-11	7062.60		29.22		7033.38		12.92	4.492	5.42	7.33	-132.7
MW-9	16-Nov-11	7062.60		29.41		7033.19		11.80	4.402	2.67	5.56	-75.1

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-9	21-Feb-12	7062.60		29.39		7033.21		11.89	4.241	1.37	6.95	-127.0
MW-9	24-May-12	7062.60		29.39		7033.21		13.68	4.470	0.80	7.08	-56.4
MW-9	10-Sep-12	7062.60		29.73		7032.87		13.41	4.439	1.41	7.13	-52.2
MW-9	04-Dec-12	7062.60		29.90		7032.70		12.87	4.374	1.34	7.19	-60.5
MW-9	26-Mar-13	7062.60		29.56		7033.04		12.57	4.396	1.24	6.72	-15.8
MW-9	27-Jun-13	7062.60		30.00		7032.60		20.04	6.761	2.38	7.10	-48.5
MW-9	25-Sep-13	7062.60		29.28		7033.32		13.08	8.437	2.44	7.19	-84.6
MW-9	14-Jan-14	7062.60		29.68		7032.92		12.61	5.160	1.11	NM	-54.8
MW-9	04-Apr-14	7062.60		29.69		7032.91		12.89	0.407	2.81	6.89	-48.2
MW-9	10-Sep-14	7062.60		29.72		7032.88		NM	NM	NM	NM	NM
MW-9	03-Dec-14	7062.60		30.00		7032.60		NM	NM	NM	NM	NM
MW-9	27-Mar-15	7062.60		29.12		7033.48		NM	NM	NM	NM	NM
MW-9	08-Dec-15	7062.60		29.55		7033.05		NM	NM	NM	NM	NM
MW-9	02-Jun-16	7062.60		29.29		7033.31		NM	NM	NM	NM	NM
MW-9	20-Oct-16	7062.60		29.69		7032.91		NM	NM	NM	NM	NM
MW-9	26-Jan-17	7062.60		29.32		7033.28		NM	NM	NM	NM	NM
MW-9	07-Aug-17	7064.10										
MW-10	09-Mar-09	7063.27		26.25		7037.02		10.51	4.572	3.44	6.62	15.6
MW-10	10-Sep-09	7063.27		27.10		7036.17		12.62	5.133	1.83	6.97	80.7
MW-10	15-Jan-10	7063.27		27.29		7035.98		10.82	3.210	2.47	7.10	-99.3
MW-10	14-Oct-10	7063.27		27.61		7035.66		11.98	3.811	1.80	7.22	119.2
MW-10	21-Jan-11	7063.27		27.66		7035.61		10.73	3.946	1.78	7.45	90.1
MW-10	12-May-11	7063.27		27.28		7035.99		12.26	3.839	1.34	7.26	84.9
MW-10	12-Aug-11	7063.27		28.08		7035.19		12.84	3.948	4.99	6.62	175.8
MW-10	16-Nov-11	7063.27		28.20		7035.07		10.81	3.912	2.81	6.17	190.7

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Water Level Elevation (ft amsl)	Corrected GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-10	21-Feb-12	7063.27		28.13		7035.14		NM	NM	NM	NM	NM
MW-10	24-May-12	7063.27		28.15		7035.12		NM	NM	NM	NM	NM
MW-10	10-Sep-12	7063.27		28.54		7034.73		NM	NM	NM	NM	NM
MW-10	04-Dec-12	7063.27		28.72		7034.55		NM	NM	NM	NM	NM
MW-10	26-Mar-13	7063.27		28.20		7035.07		NM	NM	NM	NM	NM
MW-10	27-Jun-13	7063.27		28.79		7034.48		NM	NM	NM	NM	NM
MW-10	25-Sep-13	7063.27		27.80		7035.47		NM	NM	NM	NM	NM
MW-10	14-Jan-14	7063.27		28.44		7034.83		NM	NM	NM	NM	NM
MW-10	04-Apr-14	7063.27		28.46		7034.81		NM	NM	NM	NM	NM
MW-10	10-Sep-14	7063.27		28.48		7034.79		NM	NM	NM	NM	NM
MW-10	03-Dec-14	7063.27		28.92		7034.35		NM	NM	NM	NM	NM
MW-10	27-Mar-15	7063.27		27.70		7035.57		NM	NM	NM	NM	NM
MW-10	08-Dec-15	7063.27		28.56		7034.71		NM	NM	NM	NM	NM
MW-10	02-Jun-16	7063.27		28.22		7035.05		NM	NM	NM	NM	NM
MW-10	20-Oct-16	7063.27		28.70		7034.57		NM	NM	NM	NM	NM
MW-10	26-Jan-17	7063.27		28.19		7035.08		NM	NM	NM	NM	NM
MW-10	07-Aug-17	7064.10										
MW-11	09-Mar-09	7064.10		28.33		7035.77		11.47	5.730	3.52	6.63	17.1
MW-11	10-Sep-09	7064.10		28.88		7035.22		13.32	7.785	0.67	7.02	61.2
MW-11	15-Jan-10	7064.10		29.13		7034.97		10.20	3.995	1.86	7.16	-59.2
MW-11	14-Oct-10	7064.10		29.44		7034.66		13.00	4.901	1.93	7.20	94.5
MW-11	21-Jan-11	7064.10		29.53		7034.57		11.55	4.937	1.75	7.37	216.0
MW-11	12-May-11	7064.10		29.25		7034.85		12.97	4.701	2.71	7.41	-16.0
MW-11	12-Aug-11	7064.10		29.89		7034.21		12.89	4.872	3.24	7.39	122.2
MW-11	16-Nov-11	7064.10		30.07		7034.03		11.49	4.762	3.61	7.00	307.9

TABLE 1  
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

<i>Well ID</i>	<i>Date Measured</i>	<i>Top of Casing Elevation (ft amsl)</i>	<i>Depth to NAPL (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Water Level Elevation (ft amsl)</i>	<i>Corrected GW Elev. (ft)</i>	<i>Temp. (°C)</i>	<i>Specific Conduct. (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>pH</i>	<i>ORP (mV)</i>
MW-11	21-Feb-12	7064.10		30.04		7034.06		NM	NM	NM	NM	NM
MW-11	24-May-12	7064.10		30.06		7034.04		NM	NM	NM	NM	NM
MW-11	10-Sep-12	7064.10		30.38		7033.72		NM	NM	NM	NM	NM
MW-11	04-Dec-12	7064.10		30.58		7033.52		NM	NM	NM	NM	NM
MW-11	26-Mar-13	7064.10		30.23		7033.87		NM	NM	NM	NM	NM
MW-11	27-Jun-13	7064.10		30.66		7033.44		NM	NM	NM	NM	NM
MW-11	25-Sep-13	7064.10		30.00		7034.10		NM	NM	NM	NM	NM
MW-11	14-Jan-14	7064.10		30.39		7033.71		NM	NM	NM	NM	NM
MW-11	04-Apr-14	7064.10		30.36		7033.74		NM	NM	NM	NM	NM
MW-11	10-Sep-14	7064.10		30.42		7033.68		NM	NM	NM	NM	NM
MW-11	03-Dec-14	7064.10		30.73		7033.37		NM	NM	NM	NM	NM
MW-11	27-Mar-15	7064.10		29.83		7034.27		NM	NM	NM	NM	NM
MW-11	08-Dec-15	7064.10		30.34		7033.76		NM	NM	NM	NM	NM
MW-11	02-Jun-16	7064.10		30.04		7034.06		NM	NM	NM	NM	NM
MW-11	20-Oct-16	7064.10		30.45		7033.65		NM	NM	NM	NM	NM
MW-11	26-Jan-17	7064.10		30.10		7034.00		NM	NM	NM	NM	NM
MW-11	07-Aug-17	7064.10										

Plugged and Abandoned

**NOTES:** NA NOT AVAILABLE  
NM NOT MEASURED

TABLE 2  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -  
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\text{mg/L}$ )	( $\text{mg/L}$ )	( $\text{mg/L}$ )
<b>Analytical Method</b>		<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>
MW-1	05-Mar-09	310	91	5.1	200	2.1	<1.0	<5.0
MW-1	11-Sep-09	1,500	1.1	48	170	4.8	<1.0	<5.0
MW-1	15-Jan-10	630	<5.0	19	47	2.1	<1.0	<5.0
MW-1	15-Oct-10	960	53	37	94	4.1	<1.0	<5.0
MW-1	21-Jan-11	3,600	<10	140	160	10	<1.0	<5.0
MW-1	12-May-11	7,800	42	270	33	19	<1.0	<5.0
MW-1	12-Aug-11	280	<1.0	18	<2.0	1.2	<1.0	<5.0
MW-1	16-Nov-11	2,700	<5.0	76	<10	3.9	<1.0	<5.0
MW-1	21-Feb-12	360	<1.0	54	<2.0	1.2	<1.0	<5.0
MW-1	24-May-12	210	2.1	31	5.1	0.59	<1.0	<5.0
MW-1	10-Sep-12	54	<2.0	36	<4.0	0.45	<1.0	<5.0
MW-1	04-Dec-12	<2.0	<2.0	17	<4.0	0.19	<1.0	<5.0
MW-1	26-Mar-13	1.2	<1.0	1.8	<2.0	<0.050	<1.0	<5.0
MW-1	01-Jul-13	1.6	<1.0	6.5	<2.0	0.090	<1.0	<5.0
MW-1	25-Sep-13	180	2.9	36	8.8	0.53	<1.0	<5.0
MW-1	14-Jan-14	14	<2.0	15	<4.0	0.21	<1.0	<5.0
MW-1	NS - Residual NAPL Present April 2014 through December 2018							
MW-1	26-Mar-19	340	62	35	370	6.1	2.1	<5.0
MW-1	25-Sep-19	88	9.8	7.7	86	2.0	6.0	<5.0
MW-1	25-Mar-20	220	12	16	89	2.3	<1.0	<5.0
MW-1	23-Jun-20	760	17	45	280	7.7	<1.0	<5.0
MW-1	23-Sep-20	9.7	1.6	3.2	36	0.35	4.7	<5.0
MW-1	23-Nov-20	110	3.1	20	130	3.6	1.0	<5.0
MW-1	17-Mar-21	160	3.1	15	150	8.1	2.6	<5.0
MW-1	17-Jun-21	14	<2.0	<2.0	11	0.28	<1.0	<5.0
MW-1	29-Sep-21	190	<1.0	6.0	32	1.8	1.1	<5.0
MW-1	14-Dec-21	54	<2.0	2.2	10	NA	NA	NA
MW-2	05-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -  
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
<b>Analytical Method</b>		<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>
MW-2	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-3	05-Mar-09	<b>400</b>	<b>1,100</b>	110	<b>1,300</b>	8.2	3.4	<5.0
MW-3	11-Sep-09	<b>380</b>	27	26	61	4.2	9.6	6.0
MW-3	15-Jan-10	<b>750</b>	11	34	<20	3.4	7.0	6.1
MW-3	14-Oct-10	<b>140</b>	<1.0	6.8	2.8	0.76	1.9	<5.0
MW-3	21-Jan-11	<b>280</b>	<1.0	24	9.1	1.7	3.5	<5.0
MW-3	12-May-11	<b>980</b>	<1.0	42	<2.0	3.0	4.8	<5.0
MW-3	12-Aug-11	<b>51</b>	<1.0	4.2	<2.0	0.38	<1.0	<5.0
MW-3	16-Nov-11	<b>63</b>	<1.0	6.0	<2.0	0.46	3.3	<5.0
MW-3	21-Feb-12	4.8	<1.0	<1.0	<2.0	0.18	<1.0	<5.0
MW-3	24-May-12	<b>50</b>	<1.0	3.0	<2.0	0.33	<1.0	<5.0
MW-3	10-Sep-12	<b>6.2</b>	<2.0	<2.0	<4.0	0.29	<1.0	<5.0
MW-3	04-Dec-12	<2.0	<2.0	<2.0	<4.0	0.26	<1.0	<5.0
MW-3	26-Mar-13	2.5	<1.0	<1.0	<2.0	0.23	<1.0	<5.0
MW-3	01-Jul-13	<1.0	<1.0	<1.0	<2.0	0.11	<1.0	<5.0
MW-3	25-Sep-13	<b>30</b>	<1.0	1.5	3.2	0.23	<1.0	<5.0
MW-3	14-Jan-14	<1.0	<1.0	<1.0	<2.0	0.12	<1.0	<5.0
MW-3	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.20	<1.0	<5.0
MW-3	26-Sep-14	<1.0	<1.0	<1.0	<2.0	0.095	<1.0	<5.0
MW-3	27-Mar-15	<1.0	<1.0	<1.0	<2.0	0.056	1.1	<5.0
MW-3	15-Sep-15	<1.0	<1.0	<1.0	<1.5	0.130	<1.0	<5.0
MW-3	02-Jun-16	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	26-Jan-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	21-Jun-17	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-4	05-Mar-09	2.7	1.4	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	06-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	10-Sep-09	<b>13</b>	<1.0	<1.0	<2.0	0.051	<1.0	<5.0
MW-4	15-Jan-10	<b>8.6</b>	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	15-Oct-10	<b>6.3</b>	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	21-Jan-11	3.6	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -  
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS  
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\text{mg/L}$ )	( $\text{mg/L}$ )	( $\text{mg/L}$ )
<b>Analytical Method</b>		<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>
MW-4	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	21-Feb-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	24-May-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	04-Apr-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-5	05-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	14-Aug-17	Unable to Sample - Well Obstructed						
MW-6	06-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	15-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	07-Aug-17	Plugged and Abandoned						
MW-7	06-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2  
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BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\text{mg/L}$ )	( $\text{mg/L}$ )	( $\text{mg/L}$ )
<b>Analytical Method</b>		<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>
MW-7	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	07-Aug-17	Plugged and Abandoned						
MW-8	06-Mar-09	160	170	12	350	2.1	1.5	<5.0
MW-8	11-Sep-09	1,200	<20	36	75	4.1	1.1	<5.0
MW-8	15-Jan-10	56	<1.0	2.3	2.2	0.24	<1.0	<5.0
MW-8	15-Oct-10	50	<1.0	1.7	<2.0	0.21	<1.0	<5.0
MW-8	21-Jan-11	370	<1.0	4.6	<2.0	0.58	<1.0	<5.0
MW-8	12-May-11	430	<1.0	25	<2.0	1.4	<1.0	<5.0
MW-8	12-Aug-11	2.3	<1.0	<1.0	<2.0	0.070	<1.0	<5.0
MW-8	16-Nov-11	1.5	<1.0	<1.0	<2.0	0.17	<1.0	<5.0
MW-8	21-Feb-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	24-May-12	<1.0	<1.0	<1.0	<2.0	0.12	<1.0	<5.0
MW-8	10-Sep-12	<1.0	<1.0	<1.0	<2.0	0.16	<1.0	<5.0
MW-8	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	27-Jun-13	<1.0	<1.0	<1.0	<2.0	0.052	<1.0	<5.0
MW-8	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.072	<1.0	<5.0
MW-8	07-Aug-17	Plugged and Abandoned						
MW-9	06-Mar-09	170	350	49	530	2.5	<1.0	<5.0
MW-9	06-Apr-09	82	62	16	210	1.6	<1.0	<5.0
MW-9	10-Sep-09	46	<1.0	3.8	19	0.86	<1.0	<5.0
MW-9	15-Jan-10	62	<1.0	4.2	12	0.49	<1.0	<5.0
MW-9	15-Oct-10	53	<1.0	2.3	<2.0	0.22	<1.0	<5.0
MW-9	21-Jan-11	390	<1.0	5.1	<2.0	0.41	<1.0	<5.0
MW-9	12-May-11	390	<1.0	11	<2.0	0.92	<1.0	<5.0
MW-9	12-Aug-11	120	<1.0	5.6	<2.0	0.35	<1.0	<5.0
MW-9	16-Nov-11	200	<5.0	9.6	<10	0.57	<1.0	<5.0
MW-9	21-Feb-12	120	<1.0	4.2	<2.0	0.30	<1.0	<5.0
MW-9	24-May-12	3.8	<1.0	1.4	<2.0	0.076	<1.0	<5.0
MW-9	10-Sep-12	<1.0	<1.0	<1.0	<2.0	0.072	<1.0	<5.0
MW-9	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	27-Jun-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

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BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-MRO
		( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\mu\text{g/L}$ )	( $\text{mg/L}$ )	( $\text{mg/L}$ )	( $\text{mg/L}$ )
<b>Analytical Method</b>		<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8021B/ 8260B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>		<b>5</b>	<b>1,000</b>	<b>700</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>
MW-9	25-Sep-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	14-Jan-14	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	04-Apr-14	<1.0	<1.0	<1.0	<2.0	0.075	<1.0	<5.0
MW-9	07-Aug-17	Plugged and Abandoned						
MW-10	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-10	07-Aug-17	Plugged and Abandoned						
MW-11	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	10-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	15-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	14-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	21-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	12-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	12-Aug-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-11	07-Aug-17	Plugged and Abandoned						
<b>Downgradient MW-7*</b>	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

**NOTES:** NA = Not Analyzed

NE = Not Established

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil Range Organics

\* Monitoring Well from HWY 537 '06-'07 spill

TABLE 3  
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - WQCC GROUNDWATER STANDARDS (NMAC 20.6.2.3103)  
 BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
 Rio Arriba County, New Mexico

Well ID	Sample Date	Antimony	Arsenic	Copper	Lead	Selenium	Thallium	Uranium	Fluoride	Chloride	Nitrite-N	Nitrate-N	Sulfate	Total Dissolved Solids (TDS)	Aluminum	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Iron	Manganese	Molybdenum	Nickel	Silver	Zinc	Total Mercury	Cyanide	Phenols	pH	Radium 226/228	
Analytical Method		200.8/6020							300.0					254 OC	200.7/6010												245.1	450 OCN	SW-846 9067	4500-H+B	903.1 904.0		
NM WQCC Standard		0.006	0.01	1.0	0.015	0.05	0.002	0.03	1.6	250	1.0	10.0	600	1,000	5.0	2.0	0.004	0.75	0.005	0.05	0.05	1.0	0.2	1.0	0.2	0.05	10.0	0.002	0.2	0.005	6 to 9	5.0	
		(mg/L)																									--	pCi/L					
MW-1	26-Mar-19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	2,300	NA	NA	NA	NA	NA	NA	NA	NA	0.75	0.34	0.68 (T)	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	25-Sep-19	<0.0010	0.0067	0.020	0.0092	0.0014	<0.00050	0.036	<0.50	46	<0.50	<0.50	1,800	3,500	20 (T)	0.40	<0.0020	0.082	<0.0020	0.019	0.015	28 (T)	0.73	0.52	NA	NA	0.077	<0.00020	<0.00500	0.028	7.29	1.056	
MW-1	25-Mar-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.63	0.66	0.42	NA	NA	NA	NA	NA	<0.0025	NA	NA	
MW-1	23-Jun-20	NA	NA	NA	NA	NA	NA	0.015	NA	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	0.63	0.66	0.42	NA	NA	NA	NA	NA	NA	NA	NA	
MW-1	29-Sep-21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42	NA	NA	NA	NA	NA	NA	<0.005	NA	NA	
MW-2	25-Mar-20	NA	NA	NA	NA	NA	NA	0.02 (T)	NA	NA	NA	NA	2,200	3,430	5.0 (T)	NA	NA	NA	NA	NA	NA	0.02	0.0044	NA	NA	NA	NA	NA	<0.0025	NA	NA		

TABLE 3  
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - WQCC GROUNDWATER STANDARDS (NMAC 20.6.2.3103)  
 BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE  
 Rio Arriba County, New Mexico

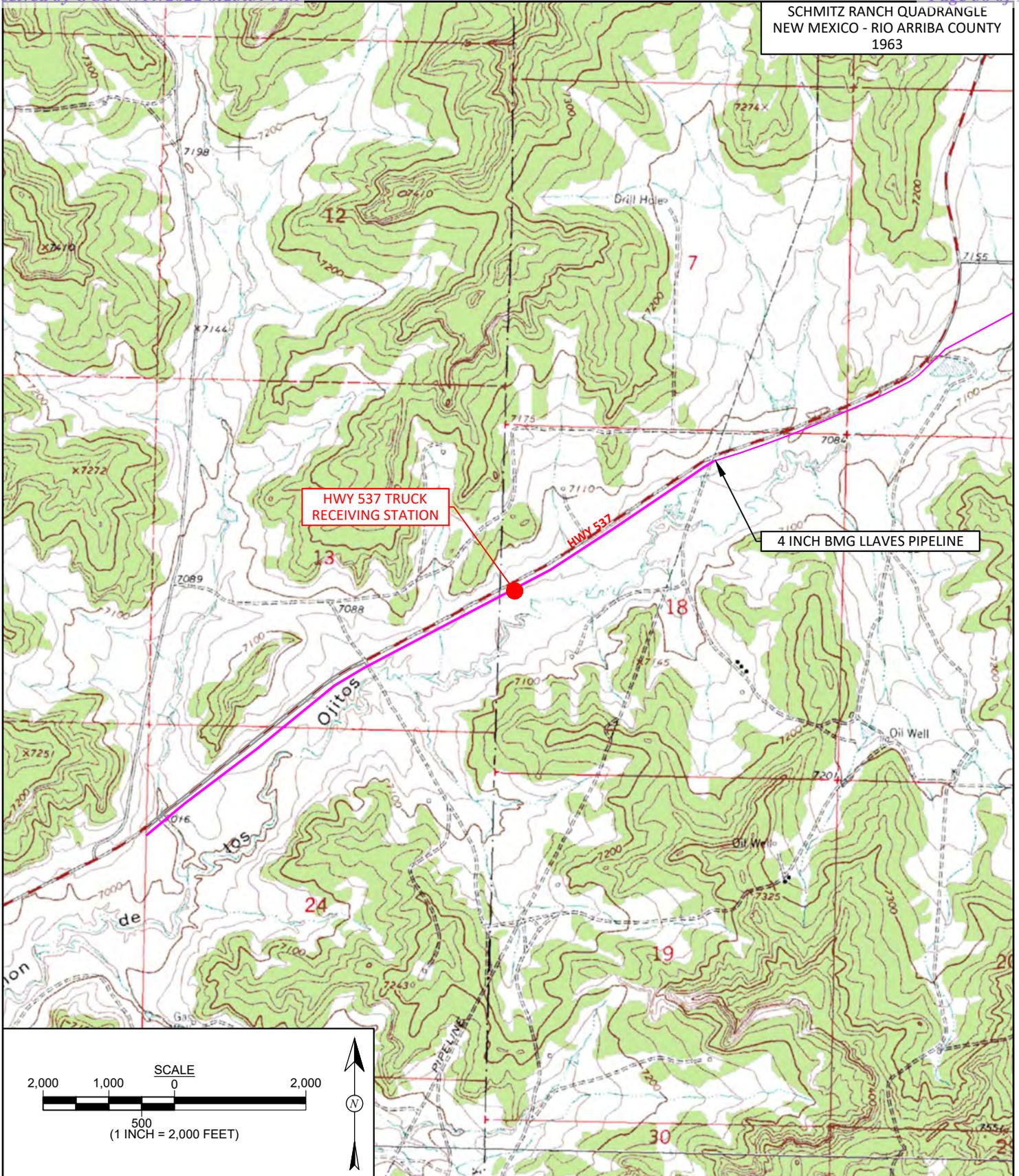
Well ID	Sample Date	Antimony	Arsenic	Copper	Lead	Selenium	Thallium	Uranium	Fluoride	Chloride	Nitrite-N	Nitrate-N	Sulfate	Total Dissolved Solids (TDS)	Aluminum	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Iron	Manganese	Molybdenum	Nickel	Silver	Zinc	Total Mercury	Cyanide	Phenols	pH	Radium 226/228	
		<b>200.8/6020</b>						<b>300.0</b>						<b>254</b>	<b>200.7/6010</b>														<b>245.1</b>	<b>450</b>	<b>SW-846</b>	<b>4500-</b>	<b>903.1</b>
														<b>OC</b>														<b>OCN</b>	<b>9067</b>	<b>H+B</b>	<b>904.0</b>		
		<b>0.006</b>	<b>0.01</b>	<b>1.0</b>	<b>0.015</b>	<b>0.05</b>	<b>0.002</b>	<b>0.03</b>	<b>1.6</b>	<b>250</b>	<b>1.0</b>	<b>10.0</b>	<b>600</b>	<b>1,000</b>	<b>5.0</b>	<b>2.0</b>	<b>0.004</b>	<b>0.75</b>	<b>0.005</b>	<b>0.05</b>	<b>0.05</b>	<b>1.0</b>	<b>0.2</b>	<b>1.0</b>	<b>0.2</b>	<b>0.05</b>	<b>10.0</b>	<b>0.002</b>	<b>0.2</b>	<b>0.005</b>	<b>6 to 9</b>	<b>5.0</b>	
		<b>(mg/L)</b>																									<b>--</b>	<b>pCi/L</b>					
<b>MW-2</b>	23-Jun-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

**Notes:**  
 < Analyte not detected above listed method limit  
 NA Not analyzed  
 NE Not established  
 mg/L Milligrams per liter (ppm)  
 (T) Total (unfiltered) concentration

**Contaminants listed above are the dissolved portion of contaminants, unless otherwise specified, in accordance with NMAC 20.6.2.3103.  
 Bold where results are above WQCC standards.**

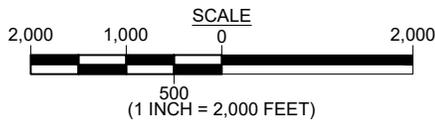
## Figures

SCHMITZ RANCH QUADRANGLE  
NEW MEXICO - RIO ARRIBA COUNTY  
1963



HWY 537 TRUCK  
RECEIVING STATION

4 INCH BMG LLAVES PIPELINE



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

**DRAWN BY:**

C. Lameman

**DATE DRAWN:**

January 10, 2013

**REVISIONS BY:**

C. Lameman

**DATE REVISED:**

September 8, 2021

**CHECKED BY:**

L. Cupps

**DATE CHECKED:**

September 8, 2021

**APPROVED BY:**

E. McNally

**DATE APPROVED:**

September 8, 2021

### FIGURE 1

**TOPOGRAPHIC SITE LOCATION MAP**  
BENSON-MONTIN-GREER  
LLAVES PIPELINE HWY. 537  
TRUCK RECEIVING STATION 2009 RELEASE  
SW ¼ NW ¼ SECTION 18, T25N, R3W  
RIO ARRIBA COUNTY, NEW MEXICO  
N36.39866, W107.19328

**FIGURE 2**

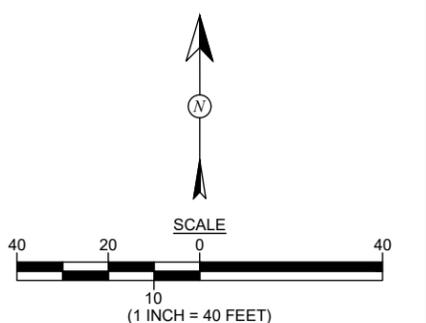
**AERIAL SITE MAP**  
 BENSON-MONTIN-GREER  
 LLAVES PIPELINE HWY. 537  
 TRUCK RECEIVING STATION 2009 RELEASE  
 SW¼ NW¼ SECTION 18, T25N, R3W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.39866, W107.19328



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 10, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> September 8, 2021
<b>CHECKED BY:</b> L. Cupps	<b>DATE CHECKED:</b> September 8, 2021
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> September 8, 2021

**LEGEND**

- MONITORING WELL INSTALLED FEBRUARY 2009
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- SOIL BORING LOCATION (SEPTEMBER 2019)



AERIAL SOURCE: © 2021 GOOGLE EARTH PRO, AERIAL DATE: OCTOBER 5, 2016.

Page 39 of 103  
 Received by OCD: 7/19/2022 8:23:39 AM  
 Released to Imaging: 8/4/2023 3:45:42 PM

### FIGURE 3A

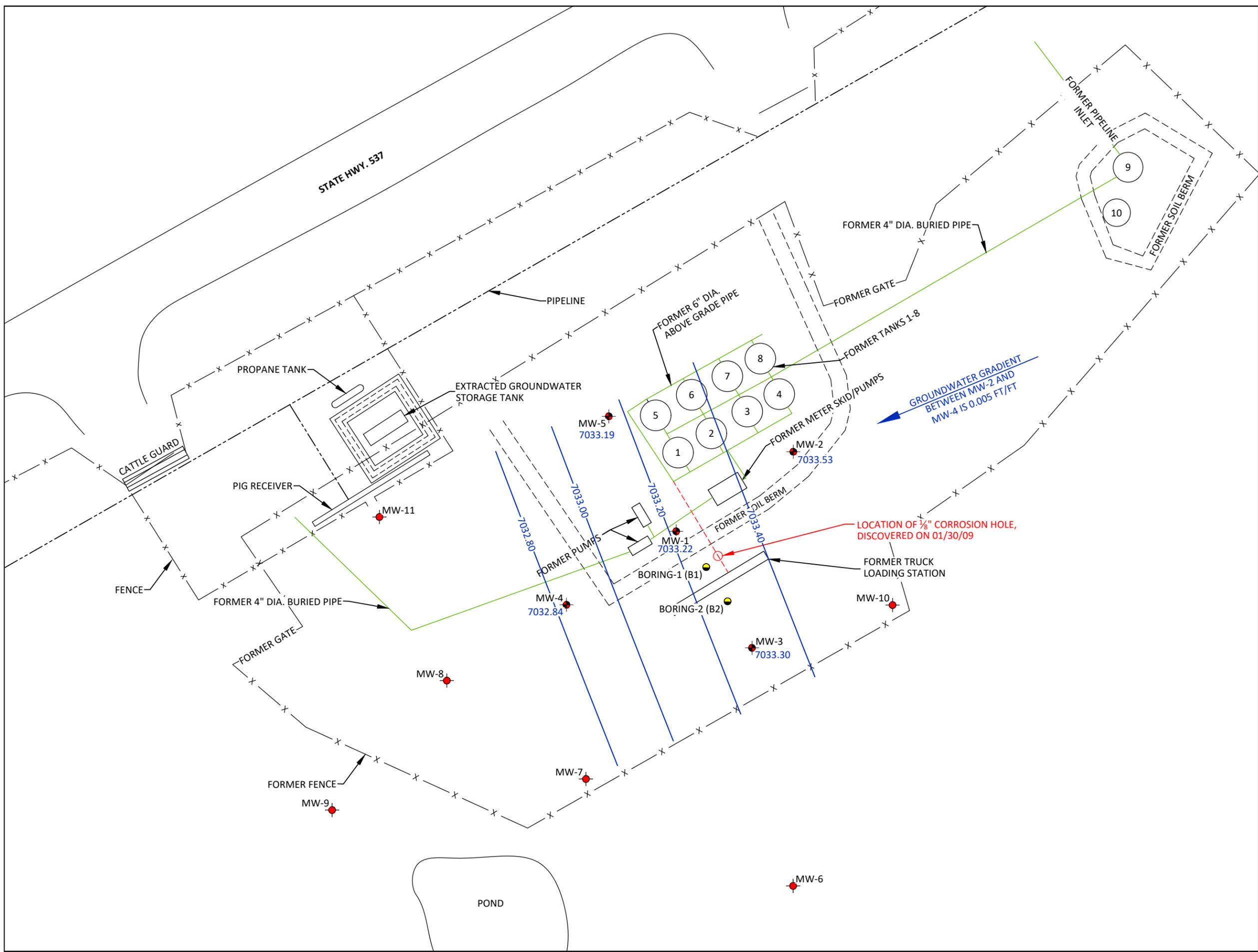
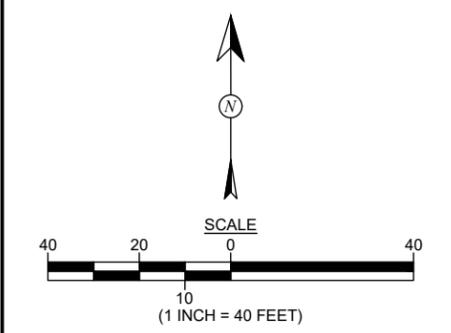
#### GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP MARCH 2021

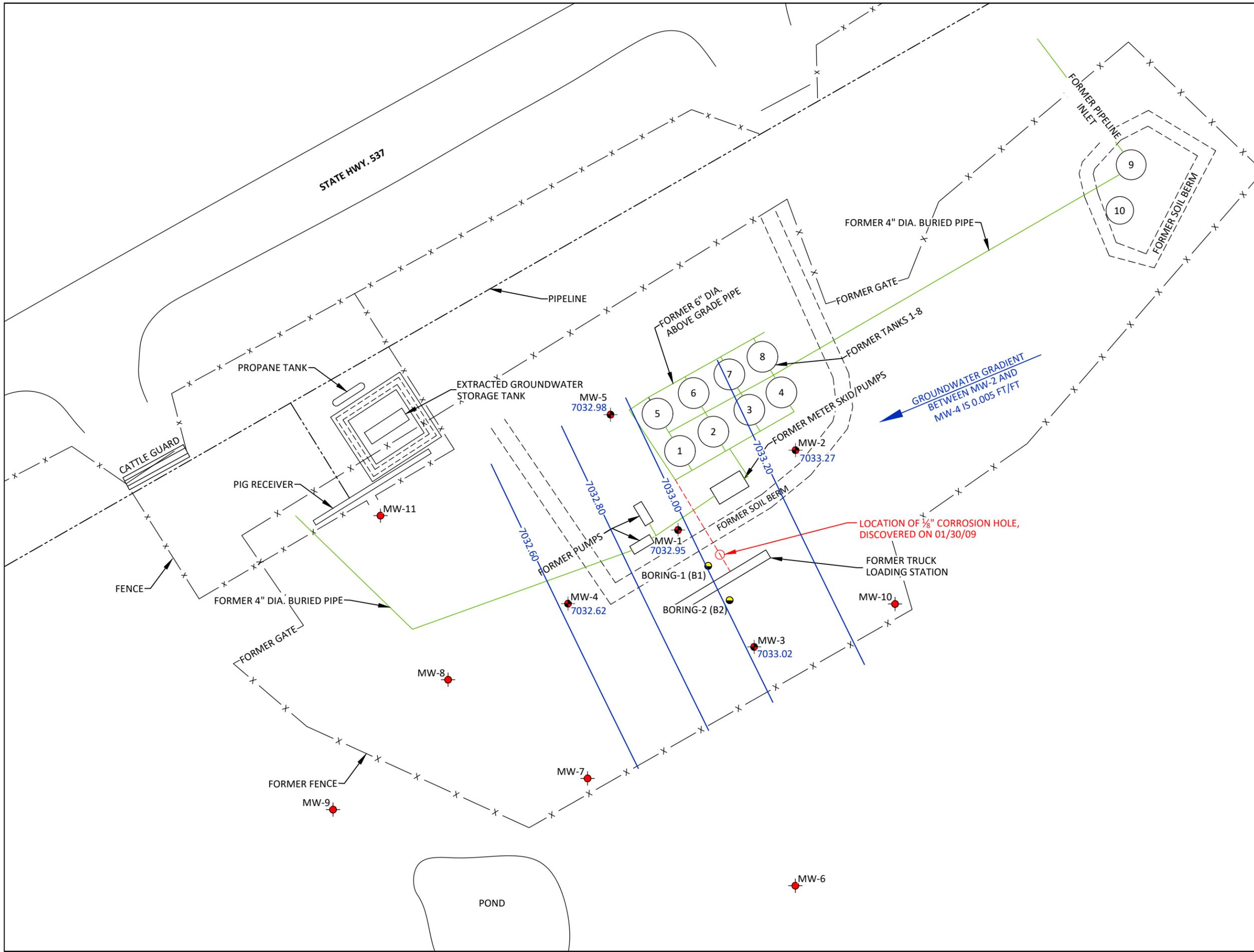
BENSON-MONTIN-GREER  
LLAVES PIPELINE HWY. 537  
TRUCK RECEIVING STATION 2009 RELEASE  
SW¼ NW¼ SECTION 18, T25N, R3W  
RIO ARriba COUNTY, NEW MEXICO  
N36.39866, W107.19328



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 10, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> September 8, 2021
<b>CHECKED BY:</b> L. Cupps	<b>DATE CHECKED:</b> September 8, 2021
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> September 8, 2021

- LEGEND**
- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
  - PLUGGED AND ABANDONED WELL (AUGUST 2017)
  - SOIL BORING LOCATION (SEPTEMBER 2019)
  - 7033.40 GROUNDWATER ELEVATIONS IN FEET (AMSL)
  - 7033.20- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
  - x - FENCE
- NOTE: ALL MEASUREMENTS MADE ON MARCH 17, 2021.





**FIGURE 3B**

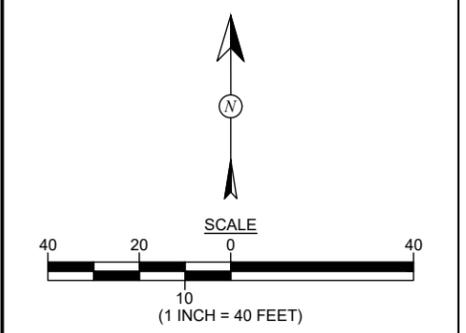
**GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP  
JUNE 2021**

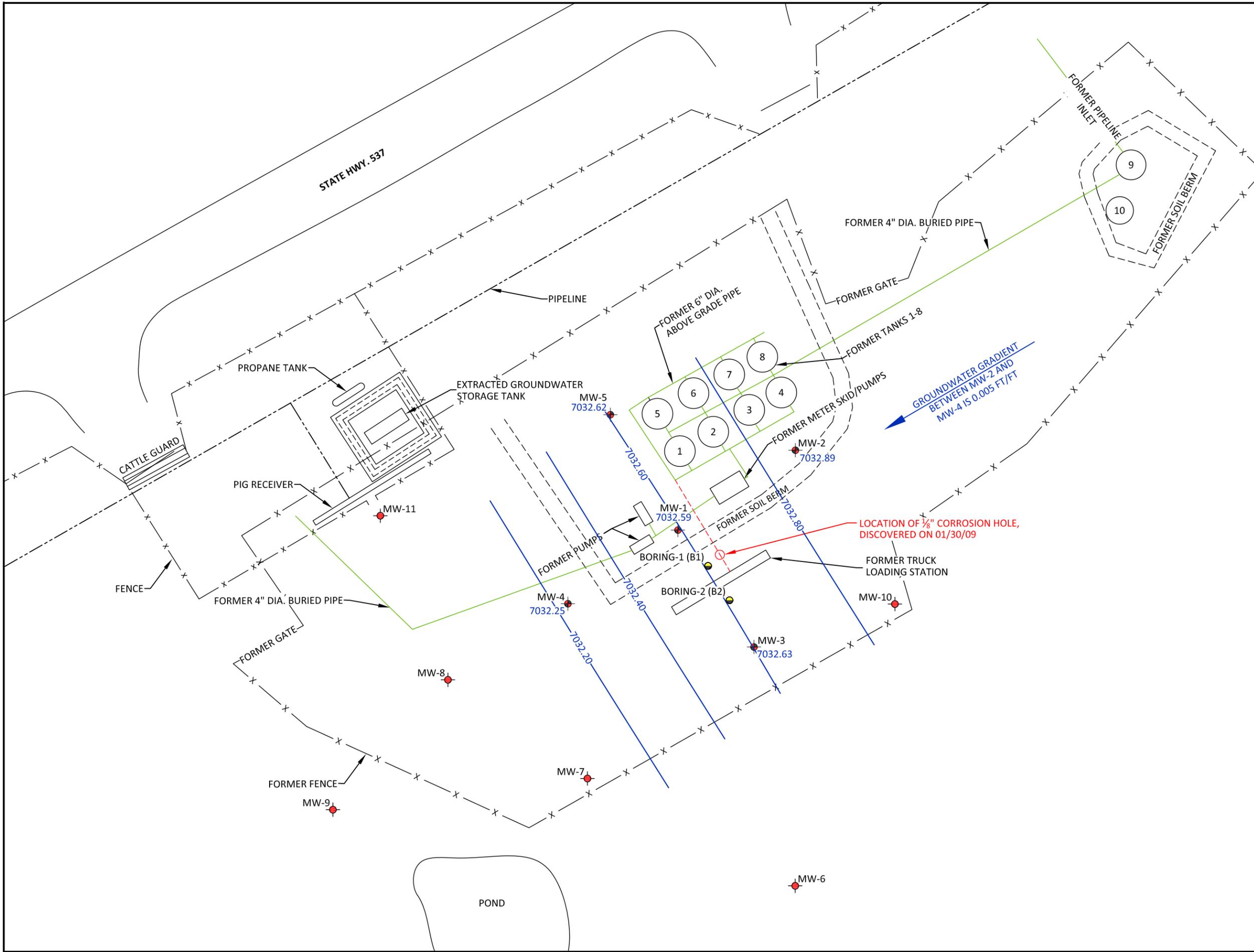
BENSON-MONTIN-GREER  
LLAVES PIPELINE HWY. 537  
TRUCK RECEIVING STATION 2009 RELEASE  
SW¼ NW¼ SECTION 18, T25N, R3W  
RIO ARriba COUNTY, NEW MEXICO  
N36.39866, W107.19328



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 10, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> September 8, 2021
<b>CHECKED BY:</b> L. Cupps	<b>DATE CHECKED:</b> September 8, 2021
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> September 8, 2021

- LEGEND**
- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
  - PLUGGED AND ABANDONED WELL (AUGUST 2017)
  - SOIL BORING LOCATION (SEPTEMBER 2019)
  - 7034.00 GROUNDWATER ELEVATIONS IN FEET (AMSL)
  - 7033.20- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
  - x - FENCE
- NOTE: ALL MEASUREMENTS MADE ON JUNE 17, 2021.





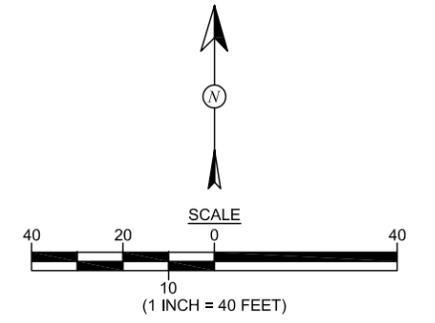
**FIGURE 3C**

**GENERAL SITE MAP AND GROUNDWATER GRADIENT MAP**  
**SEPTEMBER 2021**  
 BENSON-MONTIN-GREER  
 LLAVES PIPELINE HWY. 537  
 TRUCK RECEIVING STATION 2009 RELEASE  
 SW¼ NW¼ SECTION 18, T25N, R3W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.39866, W107.19328

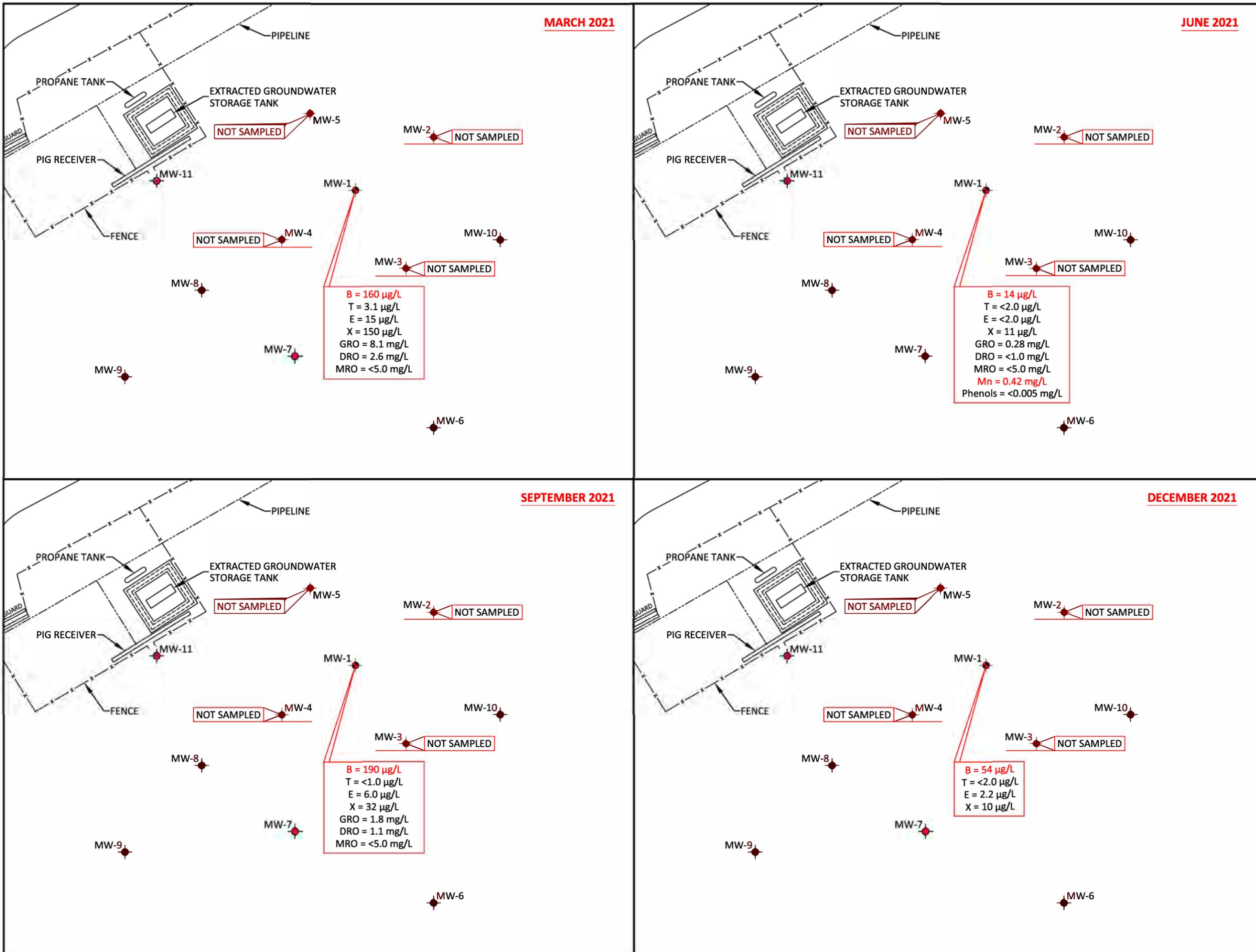


<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 10, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> February 8, 2022
<b>CHECKED BY:</b> D. Reese	<b>DATE CHECKED:</b> February 8, 2022
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> February 8, 2022

- LEGEND**
- MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
  - PLUGGED AND ABANDONED WELL (AUGUST 2017)
  - SOIL BORING LOCATION (SEPTEMBER 2019)
  - 7032.89 GROUNDWATER ELEVATIONS IN FEET (AMSL)
  - 7032.60- GROUNDWATER ELEVATIONS CONTOURS IN FEET (AMSL)
  - x - FENCE
- NOTE: ALL MEASUREMENTS MADE ON SEPTEMBER 29, 2021.







**FIGURE 4**

**2021 GROUNDWATER CONTAMINANT CONCENTRATIONS MAP**  
 BENSON-MONTIN-GREER  
 LLAVES PIPELINE HWY. 537  
 TRUCK RECEIVING STATION 2009 RELEASE  
 SW¼ NW¼ SECTION 18, T25N, R3W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.39866, W107.19328

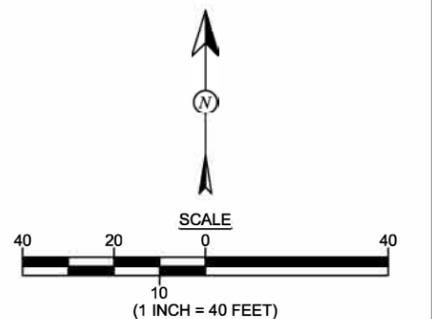


<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 10, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> February 8, 2022
<b>CHECKED BY:</b> L. Cupps	<b>DATE CHECKED:</b> February 8, 2022
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> February 8, 2022

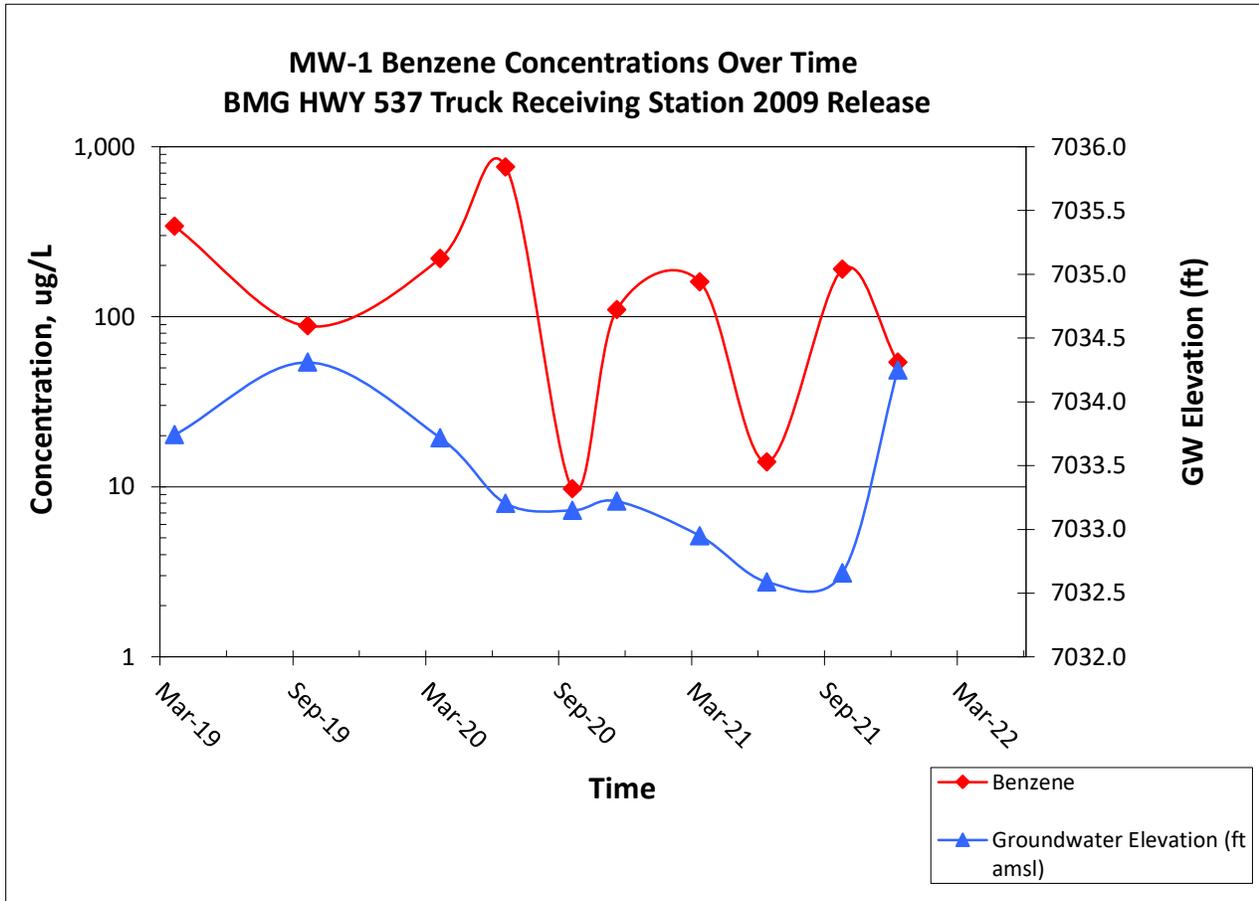
**LEGEND**

- ◆ MONITORING WELL LOCATION (INSTALLED FEBRUARY 2009)
- ◆ PLUGGED AND ABANDONED WELL (AUGUST 2017)
- FENCE
- B BENZENE
- T TOLUENE
- E ETHYL-BENZENE
- X XYLENES
- GRO GASOLINE RANGE ORGANICS
- DRO DIESEL RANGE ORGANICS
- MRO MOTOR OIL RANGE ORGANICS
- Mn MANGANESE
- µg/L MICROGRAMS PER LITER (ppb)
- mg/L MILLIGRAMS PER LITER (ppm)
- < BELOW DETECTION LIMIT

NOTE: ALL SAMPLES COLLECTED ON MARCH 17, JUNE 17, SEPTEMBER 29, AND DECEMBER 14, 2021. ANALYZED PER EPA METHOD 8021B, 8015D AND SELECT PARAMETERS PER NMAC 20.6.2.3103 FOR SEPTEMBER 29, 2021.



## Graphs



## Appendix



























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

April 13, 2021

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

RE: BMG Hwy 537 2009 Release

OrderNo.: 2103962

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/19/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2103962

Date Reported: 4/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 3/17/2021 12:15:00 PM

Lab ID: 2103962-001

Matrix: AQUEOUS

Received Date: 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE</b>							Analyst: JME
Diesel Range Organics (DRO)	2.6	1.0		mg/L	1	3/20/2021 6:35:20 PM	58849
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/20/2021 6:35:20 PM	58849
Surr: DNOP	123	63.7-164		%Rec	1	3/20/2021 6:35:20 PM	58849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	8.1	0.25		mg/L	5	3/23/2021 3:22:00 AM	R76132
Surr: BFB	177	66.7-119	S	%Rec	5	3/23/2021 3:22:00 AM	R76132
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: JMR
Benzene	160	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Toluene	3.1	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Ethylbenzene	15	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2,4-Trimethylbenzene	56	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,3,5-Trimethylbenzene	31	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Naphthalene	11	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1-Methylnaphthalene	13	8.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2-Methylnaphthalene	18	8.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Acetone	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Bromobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Bromodichloromethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Bromoform	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Bromomethane	ND	6.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2-Butanone	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Carbon disulfide	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Carbon Tetrachloride	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Chlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Chloroethane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Chloroform	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Chloromethane	ND	6.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2-Chlorotoluene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
4-Chlorotoluene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
cis-1,2-DCE	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Dibromochloromethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Dibromomethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266

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

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

Page 1 of 9

## Analytical Report

Lab Order 2103962

Date Reported: 4/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 3/17/2021 12:15:00 PM

Lab ID: 2103962-001

Matrix: AQUEOUS

Received Date: 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: JMR
1,3-Dichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,4-Dichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Dichlorodifluoromethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1-Dichloroethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1-Dichloroethene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2-Dichloropropane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,3-Dichloropropane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2,2-Dichloropropane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1-Dichloropropene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Hexachlorobutadiene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
2-Hexanone	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Isopropylbenzene	3.5	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
4-Isopropyltoluene	3.6	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
4-Methyl-2-pentanone	ND	20		µg/L	2	3/27/2021 3:13:57 AM	A76266
Methylene Chloride	ND	6.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
n-Butylbenzene	ND	6.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
n-Propylbenzene	4.3	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
sec-Butylbenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Styrene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
tert-Butylbenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
trans-1,2-DCE	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1,1-Trichloroethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,1,2-Trichloroethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Trichloroethene (TCE)	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Trichlorofluoromethane	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
1,2,3-Trichloropropane	ND	4.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Vinyl chloride	ND	2.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Xylenes, Total	150	3.0		µg/L	2	3/27/2021 3:13:57 AM	A76266
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	2	3/27/2021 3:13:57 AM	A76266
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	2	3/27/2021 3:13:57 AM	A76266
Surr: Dibromofluoromethane	96.6	70-130		%Rec	2	3/27/2021 3:13:57 AM	A76266
Surr: Toluene-d8	97.5	70-130		%Rec	2	3/27/2021 3:13:57 AM	A76266

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

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

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## Analytical Report

Lab Order 2103962

Date Reported: 4/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2009 Release

Collection Date:

Lab ID: 2103962-002

Matrix: TRIP BLANK

Received Date: 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: JMR
Benzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Toluene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Ethylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Naphthalene	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1-Methylnaphthalene	ND	4.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2-Methylnaphthalene	ND	4.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Acetone	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Bromobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Bromodichloromethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Bromoform	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Bromomethane	ND	3.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2-Butanone	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Carbon disulfide	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Carbon Tetrachloride	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Chlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Chloroethane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Chloroform	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Chloromethane	ND	3.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2-Chlorotoluene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
4-Chlorotoluene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
cis-1,2-DCE	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Dibromochloromethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Dibromomethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1-Dichloroethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1-Dichloroethene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2-Dichloropropane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,3-Dichloropropane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2,2-Dichloropropane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266

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

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

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**Analytical Report**

Lab Order **2103962**

Date Reported: **4/13/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** Trip Blank

**Project:** BMG Hwy 537 2009 Release

**Collection Date:**

**Lab ID:** 2103962-002

**Matrix:** TRIP BLANK

**Received Date:** 3/19/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>JMR</b>
1,1-Dichloropropene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Hexachlorobutadiene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
2-Hexanone	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Isopropylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
4-Isopropyltoluene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
4-Methyl-2-pentanone	ND	10		µg/L	1	3/27/2021 4:39:38 AM	A76266
Methylene Chloride	ND	3.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
n-Butylbenzene	ND	3.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
n-Propylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
sec-Butylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Styrene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
tert-Butylbenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
trans-1,2-DCE	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Trichlorofluoromethane	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Vinyl chloride	ND	1.0		µg/L	1	3/27/2021 4:39:38 AM	A76266
Xylenes, Total	ND	1.5		µg/L	1	3/27/2021 4:39:38 AM	A76266
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	3/27/2021 4:39:38 AM	A76266
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	3/27/2021 4:39:38 AM	A76266
Surr: Dibromofluoromethane	104	70-130		%Rec	1	3/27/2021 4:39:38 AM	A76266
Surr: Toluene-d8	107	70-130		%Rec	1	3/27/2021 4:39:38 AM	A76266

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2103962

13-Apr-21

**Client:** Animas Environmental Services  
**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>MB-58849</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range</b>								
Client ID: <b>PBW</b>	Batch ID: <b>58849</b>	RunNo: <b>76096</b>								
Prep Date: <b>3/19/2021</b>	Analysis Date: <b>3/20/2021</b>	SeqNo: <b>2694195</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		110	63.7	164			

Sample ID: <b>LCS-58849</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>58849</b>	RunNo: <b>76096</b>								
Prep Date: <b>3/19/2021</b>	Analysis Date: <b>3/20/2021</b>	SeqNo: <b>2694196</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	105	70	130			
Surr: DNOP	0.55		0.5000		110	63.7	164			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2103962

13-Apr-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R76132</b>		RunNo: <b>76132</b>							
Prep Date:	Analysis Date: <b>3/23/2021</b>		SeqNo: <b>2695414</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	104	72.5	114			
Surr: BFB	21		20.00		106	66.7	119			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R76132</b>		RunNo: <b>76132</b>							
Prep Date:	Analysis Date: <b>3/23/2021</b>		SeqNo: <b>2695415</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		85.2	66.7	119			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2103962

13-Apr-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>A76266</b>		RunNo: <b>76266</b>							
Prep Date:	Analysis Date: <b>3/26/2021</b>		SeqNo: <b>2700496</b>				Units: <b>µg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	98.2	70	130			
Chlorobenzene	19	1.0	20.00	0	96.7	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.4	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	90.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.7	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>							
Client ID: <b>PBW</b>	Batch ID: <b>A76266</b>		RunNo: <b>76266</b>							
Prep Date:	Analysis Date: <b>3/26/2021</b>		SeqNo: <b>2700497</b>				Units: <b>µg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

**Qualifiers:**

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2103962

13-Apr-21

**Client:** Animas Environmental Services**Project:** BMG Hwy 537 2009 Release

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>							
Client ID: <b>PBW</b>	Batch ID: <b>A76266</b>		RunNo: <b>76266</b>							
Prep Date:	Analysis Date: <b>3/26/2021</b>		SeqNo: <b>2700497</b>		Units: <b>µg/L</b>					
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

**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 Quantitative 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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2103962

13-Apr-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A76266</b>	RunNo: <b>76266</b>								
Prep Date:	Analysis Date: <b>3/26/2021</b>	SeqNo: <b>2700497</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.0	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.2	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: <b>2103962-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>MW-1</b>	Batch ID: <b>A76266</b>	RunNo: <b>76266</b>								
Prep Date:	Analysis Date: <b>3/27/2021</b>	SeqNo: <b>2700507</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	170	2.0	40.00	157.1	33.6	70	130			S
Toluene	42	2.0	40.00	3.128	98.4	70	130			
Chlorobenzene	40	2.0	40.00	0	99.8	70	130			
1,1-Dichloroethene	35	2.0	40.00	0	87.9	70	130			
Trichloroethene (TCE)	35	2.0	40.00	0	87.5	70	130			
Surr: 1,2-Dichloroethane-d4	18		20.00		92.5	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		92.7	70	130			
Surr: Dibromofluoromethane	17		20.00		86.5	70	130			
Surr: Toluene-d8	20		20.00		102	70	130			

Sample ID: <b>2103962-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>MW-1</b>	Batch ID: <b>A76266</b>	RunNo: <b>76266</b>								
Prep Date:	Analysis Date: <b>3/27/2021</b>	SeqNo: <b>2700508</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	160	2.0	40.00	157.1	1.32	70	130	7.86	20	S
Toluene	40	2.0	40.00	3.128	91.0	70	130	7.24	20	
Chlorobenzene	37	2.0	40.00	0	92.8	70	130	7.22	20	
1,1-Dichloroethene	32	2.0	40.00	0	81.0	70	130	8.17	20	
Trichloroethene (TCE)	33	2.0	40.00	0	81.6	70	130	7.07	20	
Surr: 1,2-Dichloroethane-d4	19		20.00		97.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	19		20.00		93.2	70	130	0	0	
Surr: Dibromofluoromethane	18		20.00		87.8	70	130	0	0	
Surr: Toluene-d8	20		20.00		102	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Animas Environmental Services

Work Order Number: 2103962

RcptNo: 1

Received By: Juan Rojas

3/19/2021 8:40:00 AM

[Signature]

Completed By: Sean Livingston

3/19/2021 9:15:16 AM

[Signature]

Reviewed By:

JR 3/19/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]
4. Were all samples received at a temperature of >0° C to 6.0° C? Yes [checked] No [ ] NA [ ]
5. Sample(s) in proper container(s)? Yes [checked] No [ ]
6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]
8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [checked] No [ ] NA [ ]
10. Were any sample containers received broken? Yes [ ] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No [ ]
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]
13. Is it clear what analyses were requested? Yes [checked] No [ ]
14. Were all holding times able to be met? Yes [checked] No [ ]

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [Signature] 3/19/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.4, Good, [ ], [ ], [ ]





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

June 28, 2021

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

RE: BMG Hwy 537 2009 Release

OrderNo.: 2106A63

Dear Eddie Hubbert:

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

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2106A63**

Date Reported: **6/28/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** MW-1

**Project:** BMG Hwy 537 2009 Release

**Collection Date:** 6/17/2021 11:32:00 AM

**Lab ID:** 2106A63-001

**Matrix:** AQUEOUS

**Received Date:** 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	0.28	0.10		mg/L	2	6/23/2021 1:08:00 PM	G79292
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	2	6/23/2021 1:08:00 PM	G79292
<b>EPA METHOD 8015M/D: DIESEL RANGE</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/23/2021 8:51:43 PM	60827
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/23/2021 8:51:43 PM	60827
Surr: DNOP	107	63.7-164		%Rec	1	6/23/2021 8:51:43 PM	60827
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	14	2.0		µg/L	2	6/23/2021 1:08:00 PM	S79292
Toluene	ND	2.0		µg/L	2	6/23/2021 1:08:00 PM	S79292
Ethylbenzene	ND	2.0		µg/L	2	6/23/2021 1:08:00 PM	S79292
Xylenes, Total	11	3.0		µg/L	2	6/23/2021 1:08:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	2	6/23/2021 1:08:00 PM	S79292
Surr: Dibromofluoromethane	101	70-130		%Rec	2	6/23/2021 1:08:00 PM	S79292
Surr: Toluene-d8	95.2	70-130		%Rec	2	6/23/2021 1:08:00 PM	S79292

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

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

**Analytical Report**

Lab Order **2106A63**

Date Reported: **6/28/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** Trip Blank

**Project:** BMG Hwy 537 2009 Release

**Collection Date:**

**Lab ID:** 2106A63-002

**Matrix:** TRIP BLANK

**Received Date:** 6/19/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	1.0		µg/L	1	6/23/2021 3:04:00 PM	S79292
Toluene	ND	1.0		µg/L	1	6/23/2021 3:04:00 PM	S79292
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 3:04:00 PM	S79292
Xylenes, Total	ND	1.5		µg/L	1	6/23/2021 3:04:00 PM	S79292
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/23/2021 3:04:00 PM	S79292
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/23/2021 3:04:00 PM	S79292
Surr: Toluene-d8	96.6	70-130		%Rec	1	6/23/2021 3:04:00 PM	S79292

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

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

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106A63

28-Jun-21

**Client:** Animas Environmental Services**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>MB-60827</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range</b>								
Client ID: <b>PBW</b>	Batch ID: <b>60827</b>	RunNo: <b>79239</b>								
Prep Date: <b>6/22/2021</b>	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786811</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.51		0.5000		103	63.7	164			

Sample ID: <b>LCS-60827</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>60827</b>	RunNo: <b>79239</b>								
Prep Date: <b>6/22/2021</b>	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786812</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.5	1.0	2.500	0	98.8	70	130			
Surr: DNOP	0.27		0.2500		107	63.7	164			

Sample ID: <b>MB-60913</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range</b>								
Client ID: <b>PBW</b>	Batch ID: <b>60913</b>	RunNo: <b>79239</b>								
Prep Date: <b>6/25/2021</b>	Analysis Date: <b>6/25/2021</b>	SeqNo: <b>2788671</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.56		0.5000		112	63.7	164			

Sample ID: <b>LCS-60913</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>60913</b>	RunNo: <b>79239</b>								
Prep Date: <b>6/25/2021</b>	Analysis Date: <b>6/25/2021</b>	SeqNo: <b>2788672</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.30		0.2500		121	63.7	164			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative 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 5

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2106A63

28-Jun-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>100ng 8260 lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260: Volatiles Short List</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>S79292</b>	RunNo: <b>79292</b>								
Prep Date:	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786263</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	19	1.0	20.00	0	93.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.5		10.00		94.8	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260: Volatiles Short List</b>								
Client ID: <b>PBW</b>	Batch ID: <b>S79292</b>	RunNo: <b>79292</b>								
Prep Date:	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786264</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.8	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Sample ID: <b>2106A63-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8260: Volatiles Short List</b>								
Client ID: <b>MW-1</b>	Batch ID: <b>R79292</b>	RunNo: <b>79292</b>								
Prep Date:	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786821</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	21		20.00		107	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		98.9	70	130			
Surr: Dibromofluoromethane	20		20.00		101	70	130			
Surr: Toluene-d8	20		20.00		97.5	70	130			

Sample ID: <b>2106A63-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8260: Volatiles Short List</b>								
Client ID: <b>MW-1</b>	Batch ID: <b>R79292</b>	RunNo: <b>79292</b>								
Prep Date:	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786824</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	21		20.00		104	70	130	0	0	
Surr: 4-Bromofluorobenzene	19		20.00		96.9	70	130	0	0	
Surr: Dibromofluoromethane	20		20.00		98.0	70	130	0	0	
Surr: Toluene-d8	19		20.00		96.2	70	130	0	0	

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2106A63

28-Jun-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>G79292</b>	RunNo: <b>79292</b>								
Prep Date:	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786297</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			

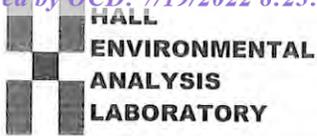
Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBW</b>	Batch ID: <b>G79292</b>	RunNo: <b>79292</b>								
Prep Date:	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786299</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			

Sample ID: <b>2106A63-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>MW-1</b>	Batch ID: <b>G79292</b>	RunNo: <b>79292</b>								
Prep Date:	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786826</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.2500	0.2760	103	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			

Sample ID: <b>2106A63-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>MW-1</b>	Batch ID: <b>G79292</b>	RunNo: <b>79292</b>								
Prep Date:	Analysis Date: <b>6/23/2021</b>	SeqNo: <b>2786827</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.2500	0.2760	95.2	70	130	3.82	20	
Surr: 4-Bromofluorobenzene	10		10.00		101	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Animas Environmental Services Work Order Number: 2106A63 RcptNo: 1

Received By: Desiree Dominguez 6/19/2021 8:40:00 AM
Completed By: Desiree Dominguez 6/19/2021 10:31:04 AM
Reviewed By: SPA 6.21.21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [ ] NA [ ]
5. Sample(s) in proper container(s)? Yes [checked] No [ ]
6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]
8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [ ] No [ ] NA [checked]
10. Were any sample containers received broken? Yes [ ] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No [ ]
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]
13. Is it clear what analyses were requested? Yes [checked] No [ ]
14. Were all holding times able to be met? Yes [checked] No [ ]

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: T.C. 6.21.21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: Date: By Whom: Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.7, Good, Yes, , ,





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

October 15, 2021

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

RE: BMG Hwy 537 2009 Release

OrderNo.: 2109H26

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/30/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white rectangular background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2109H26**

Date Reported: **10/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** MW-1

**Project:** BMG Hwy 537 2009 Release

**Collection Date:** 9/29/2021 12:18:00 PM

**Lab ID:** 2109H26-001

**Matrix:** AQUEOUS

**Received Date:** 9/30/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Manganese	0.42	0.0020	*	mg/L	1	10/4/2021 12:47:19 PM	A81767
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	1.8	0.050		mg/L	1	10/2/2021 12:28:23 AM	G81766
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/2/2021 12:28:23 AM	G81766
<b>EPA METHOD 8015M/D: DIESEL RANGE</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	1.1	1.0		mg/L	1	10/8/2021 7:28:10 PM	63071
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/8/2021 7:28:10 PM	63071
Surr: DNOP	85.6	64.8-167		%Rec	1	10/8/2021 7:28:10 PM	63071
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	190	10		µg/L	10	10/5/2021 3:43:11 PM	W81831
Toluene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Ethylbenzene	6.0	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2,4-Trimethylbenzene	17	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,3,5-Trimethylbenzene	9.1	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Naphthalene	2.7	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1-Methylnaphthalene	4.0	4.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2-Methylnaphthalene	4.2	4.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Acetone	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Bromobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Bromodichloromethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Bromoform	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Bromomethane	ND	3.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2-Butanone	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Carbon disulfide	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Carbon Tetrachloride	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Chlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Chloroethane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Chloroform	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Chloromethane	ND	3.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2-Chlorotoluene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
4-Chlorotoluene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
cis-1,2-DCE	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Dibromochloromethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

## Analytical Report

Lab Order 2109H26

Date Reported: 10/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 9/29/2021 12:18:00 PM

Lab ID: 2109H26-001

Matrix: AQUEOUS

Received Date: 9/30/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: RAA
Dibromomethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1-Dichloroethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1-Dichloroethene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2-Dichloropropane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,3-Dichloropropane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2,2-Dichloropropane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1-Dichloropropene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Hexachlorobutadiene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
2-Hexanone	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Isopropylbenzene	1.5	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
4-Isopropyltoluene	1.4	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
4-Methyl-2-pentanone	ND	10		µg/L	1	10/2/2021 12:28:23 AM	R81766
Methylene Chloride	ND	3.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
n-Butylbenzene	ND	3.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
n-Propylbenzene	1.9	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
sec-Butylbenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Styrene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
tert-Butylbenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
trans-1,2-DCE	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Trichlorofluoromethane	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Vinyl chloride	ND	1.0		µg/L	1	10/2/2021 12:28:23 AM	R81766
Xylenes, Total	32	1.5		µg/L	1	10/2/2021 12:28:23 AM	R81766
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	10/2/2021 12:28:23 AM	R81766
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	10/2/2021 12:28:23 AM	R81766
Surr: Dibromofluoromethane	97.7	70-130		%Rec	1	10/2/2021 12:28:23 AM	R81766

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

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

**Analytical Report**

Lab Order **2109H26**

Date Reported: **10/15/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** MW-1

**Project:** BMG Hwy 537 2009 Release

**Collection Date:** 9/29/2021 12:18:00 PM

**Lab ID:** 2109H26-001

**Matrix:** AQUEOUS

**Received Date:** 9/30/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>RAA</b>
Surr: Toluene-d8	100	70-130		%Rec	1	10/2/2021 12:28:23 AM	R81766
<b>TOTAL PHENOLICS BY SW-846 9067</b>							Analyst: <b>JPM</b>
Phenolics	ND	5.0		µg/L	1	10/11/2021 9:15:00 AM	63188

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26

15-Oct-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A81767</b>	RunNo: <b>81767</b>								
Prep Date:	Analysis Date: <b>10/4/2021</b>	SeqNo: <b>2891360</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	ND	0.0020								

Sample ID: <b>LLLCS</b>	SampType: <b>LCSLL</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>A81767</b>	RunNo: <b>81767</b>								
Prep Date:	Analysis Date: <b>10/4/2021</b>	SeqNo: <b>2891362</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.0022	0.0020	0.002000	0	108	50	150			

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A81767</b>	RunNo: <b>81767</b>								
Prep Date:	Analysis Date: <b>10/4/2021</b>	SeqNo: <b>2891364</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	0.48	0.0020	0.5000	0	95.4	85	115			

**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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26

15-Oct-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>MB-63071</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range</b>								
Client ID: <b>PBW</b>	Batch ID: <b>63071</b>	RunNo: <b>81862</b>								
Prep Date: <b>10/6/2021</b>	Analysis Date: <b>10/8/2021</b>	SeqNo: <b>2898361</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.51		0.5000		102	64.8	167			

Sample ID: <b>LCS-63071</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>63071</b>	RunNo: <b>81862</b>								
Prep Date: <b>10/6/2021</b>	Analysis Date: <b>10/8/2021</b>	SeqNo: <b>2898362</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.5	1.0	2.500	0	102	73	138			
Surr: DNOP	0.29		0.2500		117	64.8	167			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26

15-Oct-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R81766</b>	RunNo: <b>81766</b>								
Prep Date:	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2891234</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	19	1.0	20.00	0	96.1	70	130			
Chlorobenzene	20	1.0	20.00	0	99.1	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.7	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R81766</b>	RunNo: <b>81766</b>								
Prep Date:	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2891254</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								

**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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H26

15-Oct-21

**Client:** Animas Environmental Services**Project:** BMG Hwy 537 2009 Release

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R81766</b>		RunNo: <b>81766</b>							
Prep Date:	Analysis Date: <b>10/1/2021</b>		SeqNo: <b>2891254</b>		Units: <b>µg/L</b>					
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								

**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 Quantitative 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

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26

15-Oct-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R81766</b>	RunNo: <b>81766</b>								
Prep Date:	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2891254</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	12		10.00		116	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>W81831</b>	RunNo: <b>81831</b>								
Prep Date:	Analysis Date: <b>10/5/2021</b>	SeqNo: <b>2894780</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	26	1.0	20.00	0	129	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>W81831</b>	RunNo: <b>81831</b>								
Prep Date:	Analysis Date: <b>10/5/2021</b>	SeqNo: <b>2894784</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	11		10.00		113	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26

15-Oct-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>MB-63188</b>	SampType: <b>MBLK</b>	TestCode: <b>Total Phenolics by SW-846 9067</b>								
Client ID: <b>PBW</b>	Batch ID: <b>63188</b>	RunNo: <b>81937</b>								
Prep Date: <b>10/11/2021</b>	Analysis Date: <b>10/11/2021</b>	SeqNo: <b>2900363</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	ND	5.0								

Sample ID: <b>LCS-63188</b>	SampType: <b>LCS</b>	TestCode: <b>Total Phenolics by SW-846 9067</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>63188</b>	RunNo: <b>81937</b>								
Prep Date: <b>10/11/2021</b>	Analysis Date: <b>10/11/2021</b>	SeqNo: <b>2900364</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	17	5.0	20.00	0	86.6	54.7	121			

**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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H26

15-Oct-21

**Client:** Animas Environmental Services

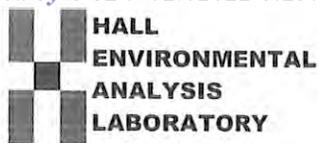
**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>G81766</b>	RunNo: <b>81766</b>								
Prep Date:	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2891256</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBW</b>	Batch ID: <b>G81766</b>	RunNo: <b>81766</b>								
Prep Date:	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2891274</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			

**Qualifiers:**

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



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

Sample Log-In Check List

Client Name: Animas Environmental Services Work Order Number: 2109H26 RcptNo: 1

Received By: Cheyenne Cason 9/30/2021 7:10:00 AM

Completed By: Sean Livingston 9/30/2021 9:03:59 AM

Reviewed By: TMC

10/1/21

Handwritten signatures and initials: Cason, Sean Livingston, and a large signature.

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [ ] NA [ ]
5. Sample(s) in proper container(s)? Yes [checked] No [ ]
6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]
8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [checked] No [ ] NA [ ]
10. Were any sample containers received broken? Yes [ ] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No [ ]
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]
13. Is it clear what analyses were requested? Yes [checked] No [ ]
14. Were all holding times able to be met? Yes [checked] No [ ]

# of preserved bottles checked for pH: 2 (or >12 unless noted)
Adjusted? N/A
Checked by: JN 10/1/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_
By Whom: \_\_\_\_\_ Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person
Regarding: \_\_\_\_\_
Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1-3.





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

December 28, 2021

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

RE: BMG Hwy 537 2009 Release

OrderNo.: 2112A03

Dear Angela Ledgerwood:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/15/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2112A03

Date Reported: 12/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 12/14/2021 12:16:00 PM

Lab ID: 2112A03-001

Matrix: AQUEOUS

Received Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: CCM
Benzene	54	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Toluene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Ethylbenzene	2.2	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2,4-Trimethylbenzene	4.6	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,3,5-Trimethylbenzene	2.9	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Naphthalene	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1-Methylnaphthalene	ND	8.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2-Methylnaphthalene	ND	8.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Acetone	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Bromobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Bromodichloromethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Bromoform	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Bromomethane	ND	6.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2-Butanone	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Carbon disulfide	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Carbon Tetrachloride	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Chlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Chloroethane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Chloroform	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Chloromethane	ND	6.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2-Chlorotoluene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
4-Chlorotoluene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
cis-1,2-DCE	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Dibromochloromethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Dibromomethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,3-Dichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,4-Dichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Dichlorodifluoromethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1-Dichloroethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1-Dichloroethene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2-Dichloropropane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,3-Dichloropropane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2,2-Dichloropropane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647

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

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

Page 1 of 7

## Analytical Report

Lab Order 2112A03

Date Reported: 12/28/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: BMG Hwy 537 2009 Release

Collection Date: 12/14/2021 12:16:00 PM

Lab ID: 2112A03-001

Matrix: AQUEOUS

Received Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: CCM
1,1-Dichloropropene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Hexachlorobutadiene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
2-Hexanone	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Isopropylbenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
4-Isopropyltoluene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
4-Methyl-2-pentanone	ND	20		µg/L	2	12/18/2021 3:16:00 PM	R84647
Methylene Chloride	ND	6.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
n-Butylbenzene	ND	6.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
n-Propylbenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
sec-Butylbenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Styrene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
tert-Butylbenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
trans-1,2-DCE	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1,1-Trichloroethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,1,2-Trichloroethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Trichloroethene (TCE)	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Trichlorofluoromethane	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
1,2,3-Trichloropropane	ND	4.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Vinyl chloride	ND	2.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Xylenes, Total	10	3.0		µg/L	2	12/18/2021 3:16:00 PM	R84647
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%Rec	2	12/18/2021 3:16:00 PM	R84647
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	2	12/18/2021 3:16:00 PM	R84647
Surr: Dibromofluoromethane	102	70-130		%Rec	2	12/18/2021 3:16:00 PM	R84647
Surr: Toluene-d8	97.0	70-130		%Rec	2	12/18/2021 3:16:00 PM	R84647

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

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

Page 2 of 7

**Analytical Report**

Lab Order 2112A03

Date Reported: 12/28/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** Trip Blank

**Project:** BMG Hwy 537 2009 Release

**Collection Date:**

**Lab ID:** 2112A03-002

**Matrix:** TRIP BLANK

**Received Date:** 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Toluene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Ethylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Naphthalene	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1-Methylnaphthalene	ND	4.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2-Methylnaphthalene	ND	4.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Acetone	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Bromobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Bromodichloromethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Bromoform	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Bromomethane	ND	3.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2-Butanone	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Carbon disulfide	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Carbon Tetrachloride	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Chlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Chloroethane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Chloroform	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Chloromethane	ND	3.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2-Chlorotoluene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
4-Chlorotoluene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
cis-1,2-DCE	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Dibromochloromethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Dibromomethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1-Dichloroethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1-Dichloroethene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2-Dichloropropane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,3-Dichloropropane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2,2-Dichloropropane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647

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

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

Analytical Report

Lab Order 2112A03

Date Reported: 12/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: BMG Hwy 537 2009 Release

Collection Date:

Lab ID: 2112A03-002

Matrix: TRIP BLANK

Received Date: 12/15/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: VOLATILES</b>							Analyst: CCM
1,1-Dichloropropene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Hexachlorobutadiene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
2-Hexanone	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Isopropylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
4-Isopropyltoluene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
4-Methyl-2-pentanone	ND	10		µg/L	1	12/18/2021 4:26:00 PM	R84647
Methylene Chloride	ND	3.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
n-Butylbenzene	ND	3.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
n-Propylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
sec-Butylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Styrene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
tert-Butylbenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
trans-1,2-DCE	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Trichlorofluoromethane	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Vinyl chloride	ND	1.0		µg/L	1	12/18/2021 4:26:00 PM	R84647
Xylenes, Total	ND	1.5		µg/L	1	12/18/2021 4:26:00 PM	R84647
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	1	12/18/2021 4:26:00 PM	R84647
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	12/18/2021 4:26:00 PM	R84647
Surr: Dibromofluoromethane	102	70-130		%Rec	1	12/18/2021 4:26:00 PM	R84647
Surr: Toluene-d8	96.1	70-130		%Rec	1	12/18/2021 4:26:00 PM	R84647

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2112A03

28-Dec-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R84647</b>		RunNo: <b>84647</b>							
Prep Date:	Analysis Date: <b>12/18/2021</b>		SeqNo: <b>2975820</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	105	70	130			
Toluene	20	1.0	20.00	0	99.3	70	130			
Chlorobenzene	20	1.0	20.00	0	99.8	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.0	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.6		10.00		96.1	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: VOLATILES</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R84647</b>		RunNo: <b>84647</b>							
Prep Date:	Analysis Date: <b>12/18/2021</b>		SeqNo: <b>2975821</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

**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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2112A03

28-Dec-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>
Client ID: <b>PBW</b>	Batch ID: <b>R84647</b>	RunNo: <b>84647</b>
Prep Date:	Analysis Date: <b>12/18/2021</b>	SeqNo: <b>2975821</b> Units: <b>µg/L</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2112A03

28-Dec-21

**Client:** Animas Environmental Services

**Project:** BMG Hwy 537 2009 Release

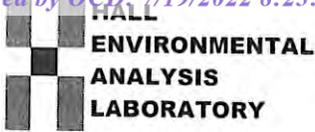
Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R84647</b>	RunNo: <b>84647</b>								
Prep Date:	Analysis Date: <b>12/18/2021</b>	SeqNo: <b>2975821</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.6		10.00		96.3	70	130			

Sample ID: <b>2112A03-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>MW-1</b>	Batch ID: <b>R84647</b>	RunNo: <b>84647</b>								
Prep Date:	Analysis Date: <b>12/18/2021</b>	SeqNo: <b>2975862</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	86	2.0	40.00	54.23	79.7	70	130			
Toluene	41	2.0	40.00	0.6400	101	70	130			
Chlorobenzene	41	2.0	40.00	0	103	70	130			
1,1-Dichloroethene	38	2.0	40.00	0	95.5	70	130			
Trichloroethene (TCE)	41	2.0	40.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	20		20.00		98.2	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		100	70	130			
Surr: Dibromofluoromethane	20		20.00		100	70	130			
Surr: Toluene-d8	19		20.00		96.0	70	130			

Sample ID: <b>2112A03-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8260B: VOLATILES</b>								
Client ID: <b>MW-1</b>	Batch ID: <b>R84647</b>	RunNo: <b>84647</b>								
Prep Date:	Analysis Date: <b>12/18/2021</b>	SeqNo: <b>2975863</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	83	2.0	40.00	54.23	73.1	70	130	3.11	20	
Toluene	40	2.0	40.00	0.6400	98.6	70	130	1.84	20	
Chlorobenzene	40	2.0	40.00	0	101	70	130	1.79	20	
1,1-Dichloroethene	38	2.0	40.00	0	93.9	70	130	1.65	20	
Trichloroethene (TCE)	40	2.0	40.00	0	99.0	70	130	3.69	20	
Surr: 1,2-Dichloroethane-d4	20		20.00		98.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	20		20.00		101	70	130	0	0	
Surr: Dibromofluoromethane	20		20.00		101	70	130	0	0	
Surr: Toluene-d8	20		20.00		98.1	70	130	0	0	

**Qualifiers:**

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



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

# Sample Log-In Check List

Client Name: **Animas Environmental Services**

Work Order Number: **2112A03**

RcptNo: 1

Received By: **Isaiah Ortiz** 12/15/2021 8:00:00 AM

Completed By: **Cheyenne Cason** 12/15/2021 4:35:08 PM

Reviewed By: **KPG 12/16/21**

*I-Ox*  
*Chad*

### Chain of Custody

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

### Log In

- 3. Was an attempt made to cool the samples? Yes  No  NA
- 4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 5. Sample(s) in proper container(s)? Yes  No
- 6. Sufficient sample volume for indicated test(s)? Yes  No
- 7. Are samples (except VOA and ONG) properly preserved? Yes  No
- 8. Was preservative added to bottles? Yes  No  NA
- 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA
- 10. Were any sample containers received broken? Yes  No
- 11. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 12. Are matrices correctly identified on Chain of Custody? Yes  No
- 13. Is it clear what analyses were requested? Yes  No
- 14. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

# of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **JN 12/16/21**

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			
2	0.6	Good	Yes			



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

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

CONDITIONS

Action 126633

**CONDITIONS**

Operator: BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	OGRID: 2096
	Action Number: 126633
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Review of Q1 through Q4 Annual 2021 Progress Report: Content Satisfactory 1. Continue to sample MW-1 for Volatiles Quarterly, Phenols (SW-846 9067) and dissolved manganese (EPA Method 200.7) 2. Gauge all wells for depth to groundwater and water quality parameters on an annual basis. 3. Replace absorbent sock as needed. 4 Submit the next Annual Report for all quarters on or before April 1, 2024.	8/4/2023