



October 16, 2017

Randy Bayliss
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Remediation Plan Update
Benson-Montin-Greer
Highway 537 Truck Receiving Station 2009 Release
Rio Arriba County, New Mexico
NMOCD ORDER #3RP-448-0**

Dear Mr. Bayliss:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Remediation Plan Update, which provides details of remediation activities in August and September 2017 at the BMG Highway 537 Truck Receiving Station 2009 release location.

As previously described in site update to the New Mexico Oil Conservation Division (NMOCD) dated July 31, 2017, scheduled monitoring and sampling have continued as well as hand-bailing of free product. AES has also completed plugging and abandonment of six monitor wells on the site and associated sampling of three wells as well. Finally, a pilot study has been underway at the BMG Llaves Pipeline 2008 Release site located approximately 0.6 miles NE of the 2009 release. The pilot was undertaken to assist in quantifying the use of vacuum assist in incorporating active skimmers into the remediation plans for both sites. A summary of the learnings from the pilot study, concluded September 28, 2017, are included here and will be considered in the development of the plan for the 2009 release.

1.0 Site Information

The BMG Highway 537 Truck Receiving Station previously consisted of eight 500 barrel (bbl) oil storage tanks, one 600 bbl oil storage tank, one 80 bbl open top waste tank, and various pumps and meters associated with crude oil transport truck loading, unloading, and pipeline transport. Surface ownership in the area where the release occurred includes private land owned by the Schmitz Ranch.

604 W. Piñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 206
Durango, CO
970-403-3084

1.1 Site Location

The truck receiving station is located along the south side of NM State Highway 537 and is adjacent to the Los Ojitos Arroyo, which eventually drains to Largo Canyon. The facility is described legally 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 (USGS 1963), is included as Figure 1. An updated site plan is presented as Figure 2.

1.2 Release History

In January 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 arrived on-site and confirmed a leak at a buried 6-inch line between the storage tanks and the truck loading pump. BMG isolated the line and emptied it of residual oil. BMG then contacted Brandon Powell of New Mexico Oil Conservation Division (NMOCD) to provide notification and intended response to the release.

The release was the result of a corrosion hole along the bottom of the pipe near the truck loading pumps. Because it was determined that the leak had impacted soils to at least 15 feet bgs, and due to the presence of tanks, buried pipe, buried conduit, and fixed pumps and meters within the release area, BMG and AES, in consultation with NMOCD, concluded that an assessment of the release area by installing soil borings and monitor wells would be the most appropriate assessment method.

On 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. From February 16 through 20, 2009, site investigation activities were conducted by AES in order to delineate the full extent of petroleum hydrocarbon impact on surface and subsurface soils and groundwater resulting from the release. The investigation procedures included the installation of 11 monitor wells (MW-1 through MW-11) and collection of soil and groundwater samples. Work was completed in accordance with the *Sampling and Analysis Plan* prepared by AES and dated February 3, 2009, and also in accordance with U.S. Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs), and applicable American Society of Testing and Materials (ASTM) standards. Details of the site investigation are included in the *AES Site Investigation Report* submitted to NMOCD in April 2009.

2.0 NAPL Recovery Efforts

Previous NAPL recovery efforts through use of a high vacuum multi-phase extraction (MPE) RSI unit are summarized below.

Petroleum Hydrocarbon Mass Removal to Date Via MPE at BMG Hwy 537 2009 Release

<i>Time Period</i>	<i>Mass Petroleum Hydrocarbons Removed (lbs)</i>
August to November 2014	1,957
January 2015 (Solar Sipper)	8
April to May 2015	1,874
<i>Cumulative</i>	<i>3,839</i>

Combined with the efforts listed above, AES has been hand-bailing NAPL from MW-1 during gauging and sampling events and disposing into the on-site waste storage tank. The timing of the bailing activity, approximately quarterly, is largely a result of the very slow recharge time. As reported previously, six gallons (approximately 36 lbs) of NAPL was recovered prior to 2017. In January, June and September of 2017, an additional volume of NAPL, 1.4 gallons (approximately 8.5 lbs), was also recovered.

3.0 Monitor Well Plugging and Abandonment

3.1 Monitor Well P&A – MW-6 through MW-11

On August 7, 2017, AES, with approval from NMOCD, oversaw the plugging and abandonment (P&A) of six monitor wells located at the site, including MW-6 through MW-11. The monitor wells all had at least eight consecutive events of groundwater contaminant concentrations below laboratory detection limits or below applicable New Mexico Water Quality Control Commission (WQCC) standards. GeoMat Engineering provided the monitor well plugging and abandonment subcontracting services. Wells that were P&A'd are identified on Figure 2, and copies of the plugging records for these monitor wells are included in the Appendix.

3.2 Groundwater Monitoring and Sampling – MW-2 through MW-4

As part of the monitor well P&A approval, NMOCD requested that MW-2, MW-3, MW-4, MW-5 be sampled prior to August 15, 2017, with laboratory analysis of BTEX per USEPA Method 8620B. On August 14, 2017, MW-2, MW-3 and MW-4 were sampled; however, AES was unable to collect a sample in MW-5 due to the obstruction of the well. Samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Laboratory analytical results showed concentrations below laboratory detection limits for MW-2, MW-3 and MW-4. Results have been incorporated into the cumulative tables for the site and are provided in Tables 1 and 2. The laboratory analytical reports are included as an attachment.

4.0 NAPL Recovery Pilot Study Activities

4.1 Results from NAPL Recovery Pilot Study at BMG 2008 Release Site

While high vacuum MPE operations were moderately successful for initially removing a significant portion of petroleum hydrocarbon mass at this and BMG's Hwy 527 2008 Release site, application of the technique has proven to be less effective at addressing residual NAPL mass. Higher levels of vacuum result in mounding of groundwater in the recovery area and result in significant water production during recovery. At such a remote site, the monitoring and removal of produced water becomes restrictive.

In order to identify additional mitigation methods for removing residual hydrocarbon mass without producing water, AES conducted a pilot study involving the application of low vacuum enhancement for NAPL recovery. While the study was performed at the BMG's Hwy 537 Pipeline 2008 release, the results offer guidance and support at this site as well.

The Hwy 537 2008 Release pilot study was performed in two phases. Phase I established a baseline for unassisted recovery of the free product in the monitor well. The results of the effort were reported in the Remediation Plan Update for the Highway 537 Llaves Pipeline 2008 Release, NMOCD #: 3RP-447; Order #860429, dated September 1, 2017. The slow recovery, which only achieved 85 percent of the original NAPL thickness after almost two weeks of monitoring, indicates a need for some enhancement to move remediation beyond simple periodic bailing. Figure 3 (from the 2008 Release report) illustrates the extended amount of time required for NAPL recovery in the wells.

Phase II, which was initiated on September 26, 2017, included vacuum enhancement and focused study on MPE-5 at the 2008 site. Efforts were suspended after NAPL fully recovered to the original measured thickness, with consistency. Note that the monitor well attained more than 100 percent of the original NAPL thickness after the vacuum was

reduced to 3 inches of H₂O, within 28 hours. Figure 4 (from the 2008 Release report) illustrates the raw results of the 50-plus hour event.

4.2 BMG 2009 Release Site: Next Steps

Assuming that the BMG 2009 location behaves similarly to the results observed in Phase II of the BMG Hwy 537 2008 Release NAPL Recovery Pilot Study, AES will schedule a similar stepped low vacuum enhancement pilot study with the same equipment to calibrate low vacuum levels at this site. Because residual NAPL at the Highway 537 Truck Receiving Station 2009 Release is different in nature to the NAPL at the 2008 Release site, site-specific data are needed. Once the low vacuum enhancement pilot study is complete, AES will proceed with the following:

- Install a low vacuum enhanced active skimmer system, with site-specific vacuum levels, at the Hwy 537 Truck Receiving Station 2009 release after a similar system is installed and started up at the BMG 2008 site. It is anticipated that system install will occur at the start of the 2018 remediation season.
- Note that the BMG Hwy 537 2008 Release will be addressed first because of the greater residual NAPL mass present at the site.

Site specific conditions include the following:

- High altitude (over 7,000 feet) precludes operation of any mechanical system over the winter months because of freezing lines and limited site accessibility. Therefore, any mechanical system installed will be taken out of service over the winter months and then started up again in the spring.
- Site is located on private land, and the land owner wants no further earth disturbance at the site.

5.0 Scheduled Site Activities

The following site activities have been scheduled for the BMG 2009 Release Site 3RP-448-0:

- **November 2017** – Weather permitting, a NAPL Recovery Pilot Study will be conducted and vacuum enhancement data obtained. An active skimmer, vacuum assist remediation system will be subsequently designed and constructed.
- **December 2017** – AES will continue the hand-bailing of NAPL during scheduled quarterly events and will dispose of recovered NAPL into the on-site waste storage tank.
- **Late March or Early April 2018** – Installation and initiation of the remediation system with active and ongoing free product recovery.

6.0 Deliverables

An annual report is due to be prepared and submitted to NMOCD after completion of 4th quarter 2017 activities and will include NAPL recovery pilot study results. The report will be completed and submitted by February 15, 2018.

Should you have any questions regarding this report, proposed schedule, or site conditions, please do not hesitate to contact me or Elizabeth McNally at (505) 564-2281.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "Robert Flegal".

Robert "Bob" Flegal, P.E.
Sr. Project Manager

A handwritten signature in blue ink, appearing to read "Elizabeth McNally".

Elizabeth McNally, P.E.

Attachments

Figure 1. Topographic Site Location Map

Figure 2. Site Plan, October 2017

Figure 3. NAPL Pilot Study Phase I (2008 Release)

Figure 4. NAPL Pilot Study Phase II (2008 Release)

Table 1. Summary of Groundwater Measurements and Water Quality Data

Table 2. Summary of Groundwater Analytical Results

Photolog

Well Plugging Reports

Hall Laboratory Report (Hall Report 1708861)

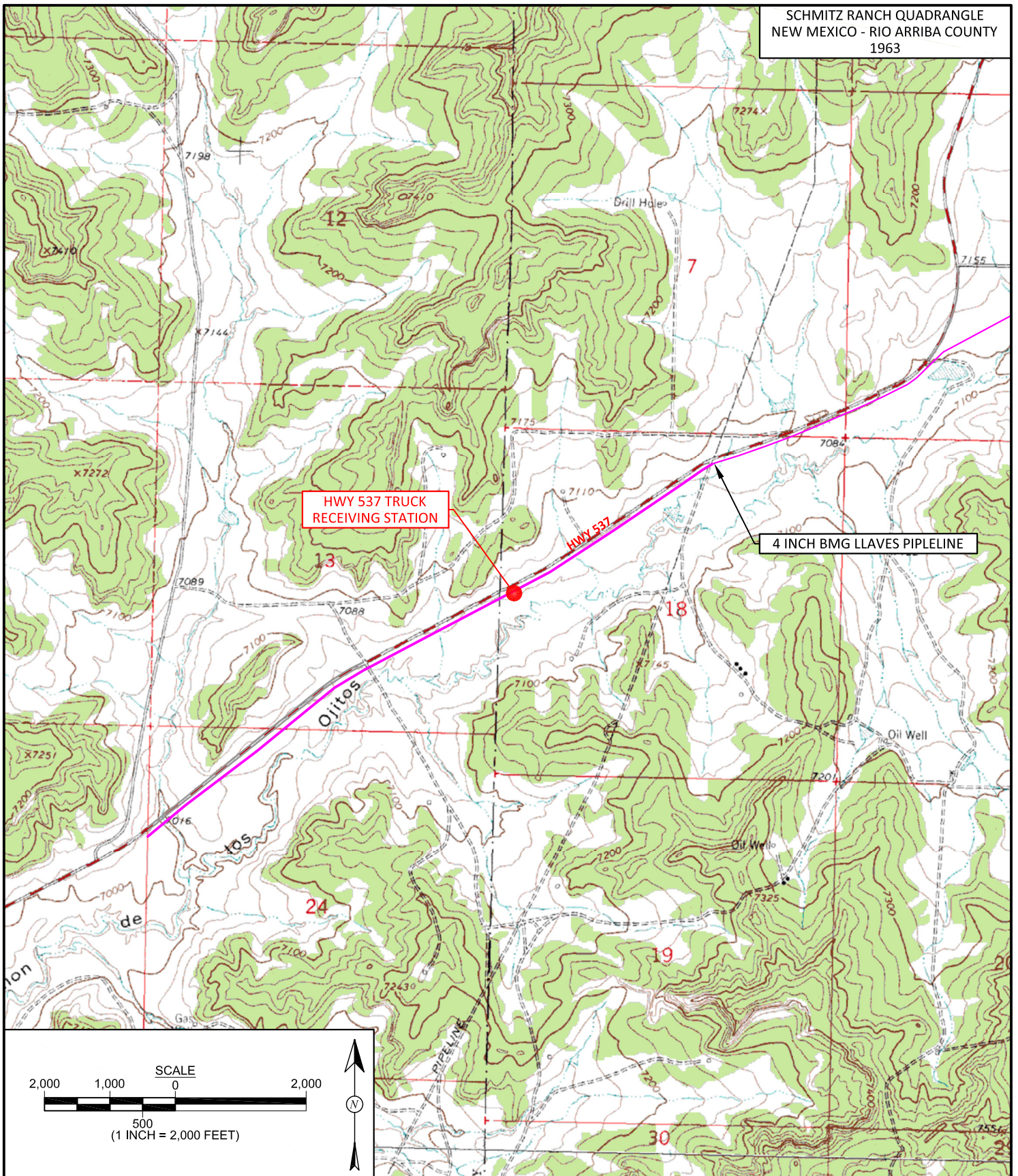
Cc: Matt Dimond
Zach Stradling
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington, NM 87401

Craig Schmitz, Private Land Owner
#70 County Road 405
Lindrith, NM 87029

Via electronic mail:
Brandon Powell (brandon.powell@state.nm.us)
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

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Figures



DRAWN BY:
C. Lameman

DATE DRAWN:
January 10, 2013

REVISIONS BY:
S. Glasses

DATE REVISED:
February 14, 2017

CHECKED BY:
E. McNally

DATE CHECKED:
February 14, 2017

APPROVED BY:
E. McNally

DATE APPROVED:
February 14, 2017

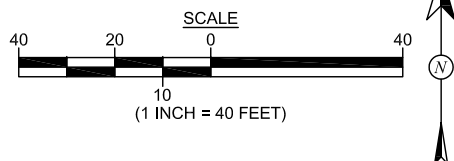
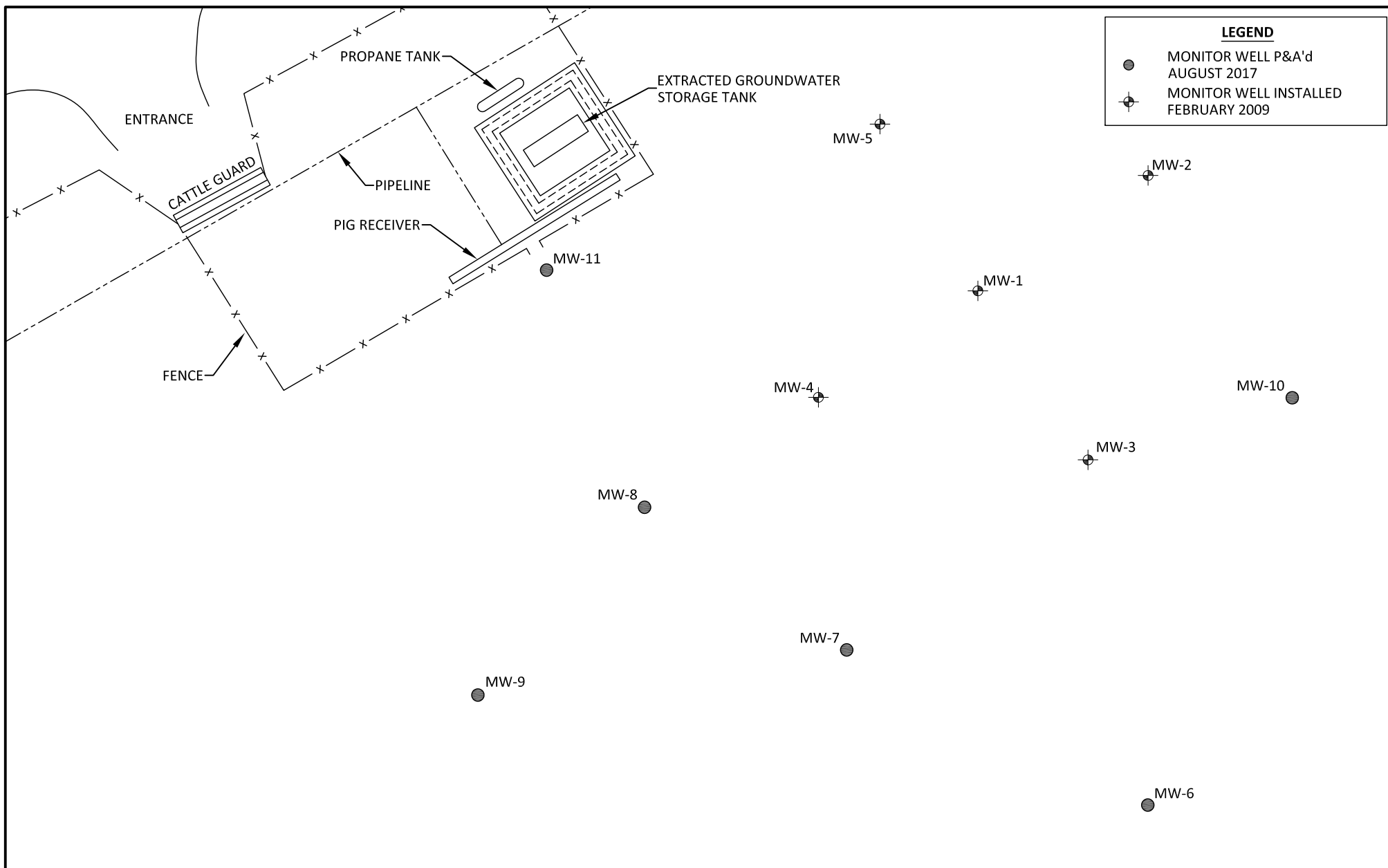
FIGURE 1

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



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animasenvironmental.com

DRAWN BY:
C. Lameman

DATE DRAWN:
July 6, 2017

REVISIONS BY:
C. Lameman

DATE REVISED:
October 16, 2017

CHECKED BY:
R. Flegal

DATE CHECKED:
October 16, 2017

APPROVED BY:
E. McNally

DATE APPROVED:
October 16, 2017

FIGURE 2

**SITE PLAN
AUGUST 2017**

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

Figure 3.
BMG HWY 537: 2008 Release
NAPL Recovery Pilot Study Phase I

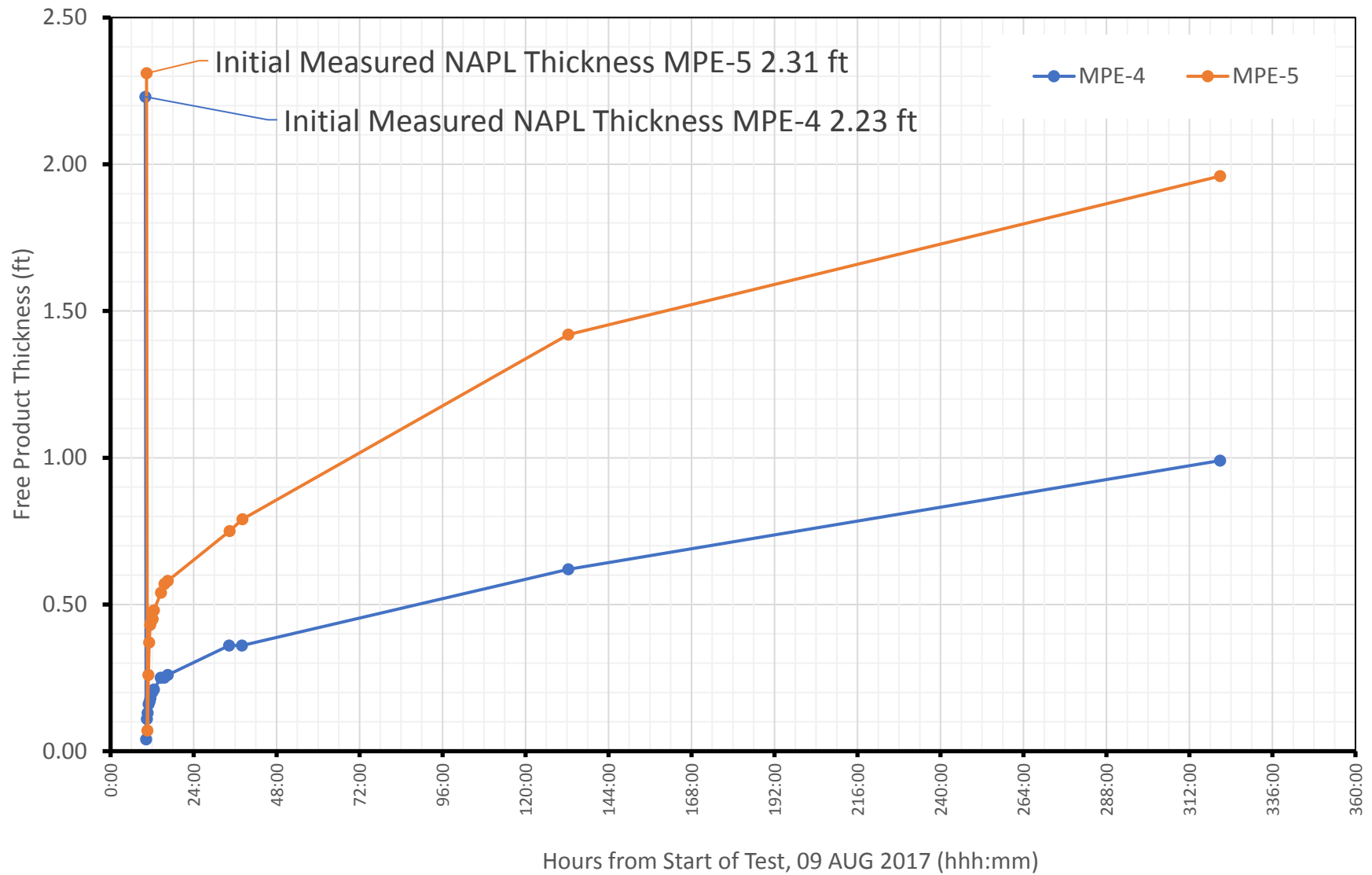
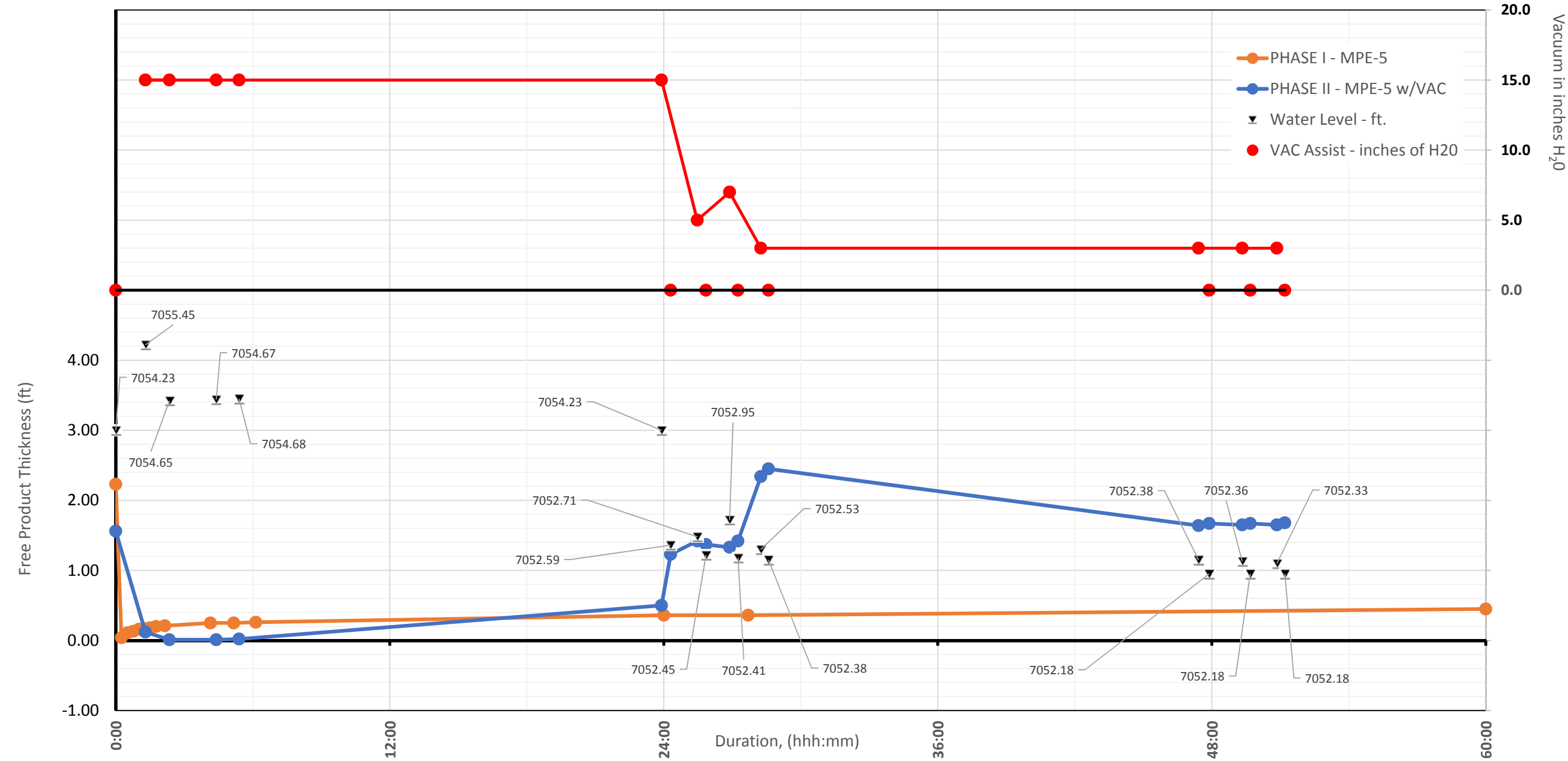


Figure 4.
BMG HWY 537: 2008 Release
NAPL Recovery Pilot Study Phase II



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 Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	pH	ORP (mV)
MW-1	05-Mar-09	27.95	7064.66	7036.71	12.29	5.231	1.27	6.64	-36.1
MW-1	11-Sep-09	28.66	7064.66	7036.00	13.15	7.016	0.65	8.60	-118.5
MW-1	15-Jan-10	28.91	7064.66	7035.75	13.30	3.714	2.74	6.79	-167.8
MW-1	15-Oct-10	29.20	7064.66	7035.46	13.77	4.642	1.51	7.14	-17.9
MW-1	21-Jan-11	29.28	7064.66	7035.38	12.42	4.246	1.63	6.92	-85.8
MW-1	12-May-11	28.93	7064.66	7035.73	13.08	3.830	2.95	7.00	-96.1
MW-1	12-Aug-11	29.67	7064.66	7034.99	14.03	4.637	3.83	6.94	-107.9
MW-1	16-Nov-11	29.82	7064.66	7034.84	11.57	4.385	2.89	5.35	-69.7
MW-1	21-Feb-12	29.77	7064.66	7034.89	12.01	4.063	1.09	6.78	-123.9
MW-1	24-May-12	29.77	7064.66	7034.89	12.94	4.563	1.04	6.95	-46.5
MW-1	10-Sep-12	30.14	7064.66	7034.52	14.63	4.705	1.16	7.12	-15.7
MW-1	04-Dec-12	30.33	7064.66	7034.33	12.55	4.430	1.30	7.11	-7.1
MW-1	26-Mar-13	29.87	7064.66	7034.79	12.20	4.556	1.66	6.72	-5.9
MW-1	01-Jul-13	30.41	7064.66	7034.25	13.52	4.372	3.61	7.18	9.2
MW-1	25-Sep-13	29.51	7064.66	7035.15	12.62	8.264	1.64	7.21	-48.6
MW-1	14-Jan-14	30.10	7064.66	7034.56	12.78	4.905	1.75	NM	-59.5
MW-1	04-Apr-14	31.02	7064.66	7033.64	Not Measured - Free Product Present (1.18 ft thickness)				
MW-1	26-Sep-14	30.90	7064.66	7033.76	Not Measured - Free Product Present (0.65 ft thickness)				
MW-1	03-Dec-14	31.47	7064.66	7033.19	Not Measured - Free Product Present (1.16 ft thickness)				
MW-1	27-Mar-15	29.63	7064.66	7035.03	Not Measured - Free Product Present (0.28 ft thickness)				
MW-1	08-Dec-15	31.48	7064.66	7033.18	Not Measured - Free Product Present (1.64 ft thickness)				
MW-1	02-Jun-16	31.21	7064.66	7033.45	Not Measured - Free Product Present (1.65 ft thickness)				
MW-1	20-Oct-16	30.94	7064.66	7033.72	Not Measured - Free Product Present (0.74 ft thickness)				
MW-1	26-Jan-17	30.38	7064.66	7034.28	Not Measured - Free Product Present (0.61 ft thickness)				
MW-1	14-Apr-17	29.73	7064.66	7034.93	Not Measured - Free Product Present (0.27 ft thickness)				
MW-1	21-Jun-17	30.23	7064.66	7034.43	Not Measured - Free Product Present (0.34 ft thickness)				
MW-1	28-Sep-17	31.65	7064.66	7033.01	Not Measured - Free Product Present (1.22 ft thickness)				
MW-2	05-Mar-09	27.69	7064.65	7036.96	12.00	4.567	2.59	6.82	-29.8
MW-2	10-Sep-09	28.38	7064.65	7036.27	12.93	6.480	1.09	7.58	62.2
MW-2	15-Jan-10	28.62	7064.65	7036.03	12.49	3.604	2.10	7.57	-70.3
MW-2	14-Oct-10	28.91	7064.65	7035.74	12.49	3.968	1.71	7.40	98.9
MW-2	21-Jan-11	28.99	7064.65	7035.66	11.44	4.045	1.62	8.56	-6.2
MW-2	12-May-11	28.63	7064.65	7036.02	13.14	4.087	1.43	7.67	-66.7
MW-2	12-Aug-11	29.37	7064.65	7035.28	14.08	4.102	4.36	7.09	160.2
MW-2	16-Nov-11	29.52	7064.65	7035.13	11.60	4.021	2.48	7.51	176.2
MW-2	21-Feb-12	29.46	7064.65	7035.19	NM	NM	NM	NM	NM
MW-2	24-May-12	29.47	7064.65	7035.18	NM	NM	NM	NM	NM
MW-2	10-Sep-12	29.84	7064.65	7034.81	NM	NM	NM	NM	NM
MW-2	04-Dec-12	30.03	7064.65	7034.62	NM	NM	NM	NM	NM
MW-2	26-Mar-13	29.60	7064.65	7035.05	NM	NM	NM	NM	NM
MW-2	27-Jun-13	30.11	7064.65	7034.54	NM	NM	NM	NM	NM
MW-2	25-Sep-13	29.28	7064.65	7035.37	NM	NM	NM	NM	NM
MW-2	14-Jan-14	29.81	7064.65	7034.84	NM	NM	NM	NM	NM
MW-2	04-Apr-14	29.84	7064.65	7034.81	NM	NM	NM	NM	NM
MW-2	10-Sep-14	29.88	7064.65	7034.77	NM	NM	NM	NM	NM
MW-2	03-Dec-14	30.24	7064.65	7034.41	NM	NM	NM	NM	NM
MW-2	27-Mar-15	29.16	7064.65	7035.49	NM	NM	NM	NM	NM
MW-2	08-Dec-15	29.90	7064.65	7034.75	NM	NM	NM	NM	NM
MW-2	02-Jun-16	29.57	7064.65	7035.08	NM	NM	NM	NM	NM

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

Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	pH	ORP (mV)
MW-2	20-Oct-16	30.02	7064.65	7034.63	NM	NM	NM	NM	NM
MW-2	26-Jan-17	29.61	7064.65	7035.04	NM	NM	NM	NM	NM
MW-2	14-Apr-17	29.23	7064.65	7035.42	NM	NM	NM	NM	NM
MW-3	05-Mar-09	27.16	7064.01	7036.85	12.29	4.310	2.17	6.66	-28.2
MW-3	11-Sep-09	27.99	7064.01	7036.02	13.50	6.080	0.53	9.43	-163.6
MW-3	15-Jan-10	28.22	7064.01	7035.79	11.99	3.607	1.85	7.27	-222.5
MW-3	14-Oct-10	28.54	7064.01	7035.47	12.41	4.180	1.46	7.24	-53.1
MW-3	21-Jan-11	28.60	7064.01	7035.41	11.92	4.224	1.60	7.20	-122.5
MW-3	12-May-11	28.21	7064.01	7035.80	12.56	4.172	2.25	7.28	-145.8
MW-3	12-Aug-11	29.02	7064.01	7034.99	13.32	4.372	2.35	7.17	-158.5
MW-3	16-Nov-11	29.14	7064.01	7034.87	10.87	4.326	2.17	6.53	-105.7
MW-3	21-Feb-12	29.07	7064.01	7034.94	11.36	4.481	1.01	7.09	-118.0
MW-3	24-May-12	29.09	7064.01	7034.92	13.30	4.325	0.81	7.07	-70.3
MW-3	10-Sep-12	29.45	7064.01	7034.56	13.26	4.377	2.49	7.23	-42.7
MW-3	04-Dec-12	29.65	7064.01	7034.36	12.08	4.294	0.69	7.26	-46.8
MW-3	26-Mar-13	29.12	7064.01	7034.89	11.93	2.337	5.85	7.46	59.3
MW-3	01-Jul-13	29.74	7064.01	7034.27	14.64	4.119	11.22	7.69	-36.8
MW-3	25-Sep-13	28.65	7064.01	7035.36	12.50	7.764	2.08	7.22	-79.5
MW-3	14-Jan-14	29.38	7064.01	7034.63	12.23	4.764	1.74	NM	-59.9
MW-3	10-Sep-14	29.39	7064.01	7034.62	NM	NM	NM	NM	NM
MW-3	26-Sep-14	13.68	7064.01	7050.33	12.88	2.718	2.69	7.11	27.2
MW-3	03-Dec-14	29.83	7064.01	7034.18	NM	NM	NM	NM	NM
MW-3	27-Mar-15	28.60	7064.01	7035.41	NM	NM	NM	NM	NM
MW-3	08-Dec-15	29.45	7064.01	7034.56	NM	NM	NM	NM	NM
MW-3	02-Jun-16	29.15	7064.01	7034.86	12.71	4.064	1.58	7.08	-3.2
MW-3	20-Oct-16	29.60	7064.01	7034.41	NM	NM	NM	NM	NM
MW-3	26-Jan-17	29.09	7064.01	7034.92	11.19	4.024	1.90	7.18	11.5
MW-3	14-Apr-17	28.70	7064.01	7035.31	NM	NM	NM	NM	NM
MW-3	21-Jun-17	30.23	7064.01	7033.78	NM	NM	NM	NM	NM
MW-4	05-Mar-09	27.39	7063.72	7036.33	12.36	4.760	1.72	6.58	-29.2
MW-4	06-Apr-09	27.58	7063.72	7036.14	11.87	4.599	2.06	6.75	18.0
MW-4	10-Sep-09	28.12	7063.72	7035.60	13.09	6.337	0.81	6.98	54.6
MW-4	15-Jan-10	28.34	7063.72	7035.38	11.65	3.812	2.78	7.20	-125.1
MW-4	15-Oct-10	28.64	7063.72	7035.08	12.52	4.491	1.42	7.13	42.8
MW-4	21-Jan-11	28.72	7063.72	7035.00	11.90	4.748	1.14	7.19	5.4
MW-4	12-May-11	28.39	7063.72	7035.33	13.11	4.576	2.58	7.29	-25.8
MW-4	12-Aug-11	29.10	7063.72	7034.62	13.89	4.759	3.98	6.85	74.9
MW-4	16-Nov-11	29.26	7063.72	7034.46	11.66	4.725	2.15	7.11	153.0
MW-4	21-Feb-12	29.22	7063.72	7034.50	10.27	4.927	1.02	7.02	-11.3
MW-4	24-May-12	29.23	7063.72	7034.49	13.75	4.687	1.04	6.98	39.3
MW-4	10-Sep-12	29.58	7063.72	7034.14	NM	NM	NM	NM	NM
MW-4	04-Dec-12	29.77	7063.72	7033.95	NM	NM	NM	NM	NM
MW-4	26-Mar-13	29.33	7063.72	7034.39	NM	NM	NM	NM	NM
MW-4	27-Jun-13	29.85	7063.72	7033.87	NM	NM	NM	NM	NM
MW-4	25-Sep-13	28.96	7063.72	7034.76	NM	NM	NM	NM	NM
MW-4	14-Jan-14	29.54	7063.72	7034.18	NM	NM	NM	NM	NM
MW-4	04-Apr-14	29.54	7063.72	7034.18	12.16	0.435	2.86	6.90	89.4
MW-4	10-Sep-14	29.60	7063.72	7034.12	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 Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	pH	ORP (mV)
MW-4	03-Dec-14	29.97	7063.72	7033.75	NM	NM	NM	NM	NM
MW-4	27-Mar-15	28.89	7063.72	7034.83	NM	NM	NM	NM	NM
MW-4	08-Dec-15	29.58	7063.72	7034.14	NM	NM	NM	NM	NM
MW-4	02-Jun-16	29.28	7063.72	7034.44	NM	NM	NM	NM	NM
MW-4	20-Oct-16	29.71	7063.72	7034.01	NM	NM	NM	NM	NM
MW-4	14-Apr-17	28.92	7063.72	7034.80	NM	NM	NM	NM	NM
MW-5	05-Mar-09	28.24	7064.79	7036.55	11.80	6.088	3.89	6.61	-17.3
MW-5	10-Sep-09	28.87	7064.79	7035.92	12.78	7.785	1.22	7.09	60.5
MW-5	15-Jan-10	29.10	7064.79	7035.69	11.19	4.288	1.93	7.27	-85.8
MW-5	14-Oct-10	29.38	7064.79	7035.41	12.34	4.725	1.24	7.23	98.1
MW-5	21-Jan-11	29.47	7064.79	7035.32	11.93	5.038	2.71	7.31	103.9
MW-5	12-May-11	29.17	7064.79	7035.62	12.40	4.957	2.44	7.42	-44.4
MW-5	12-Aug-11	29.84	7064.79	7034.95	13.73	4.968	3.87	6.83	189.8
MW-5	16-Nov-11	30.00	7064.79	7034.79	11.16	4.814	4.47	7.18	290.4
MW-5	21-Feb-12	29.96	7064.79	7034.83	NM	NM	NM	NM	NM
MW-5	25-May-12	29.96	7064.79	7034.83	NM	NM	NM	NM	NM
MW-5	10-Sep-12	30.31	7064.79	7034.48	NM	NM	NM	NM	NM
MW-5	04-Dec-12	30.52	7064.79	7034.27	NM	NM	NM	NM	NM
MW-5	26-Mar-13	30.14	7064.79	7034.65	NM	NM	NM	NM	NM
MW-5	27-Jun-13	30.60	7064.79	7034.19	NM	NM	NM	NM	NM
MW-5	25-Sep-13	29.87	7064.79	7034.92	NM	NM	NM	NM	NM
MW-5	14-Jan-14	30.31	7064.79	7034.48	NM	NM	NM	NM	NM
MW-5	04-Apr-14	30.30	7064.79	7034.49	NM	NM	NM	NM	NM
MW-5	10-Sep-14	30.37	7064.79	7034.42	NM	NM	NM	NM	NM
MW-5	03-Dec-14	30.70	7064.79	7034.09	NM	NM	NM	NM	NM
MW-5	27-Mar-15	29.72	7064.79	7035.07	NM	NM	NM	NM	NM
MW-5	08-Dec-15	30.36	7064.79	7034.43	NM	NM	NM	NM	NM
MW-5	02-Jun-16	30.03	7064.79	7034.76	NM	NM	NM	NM	NM
MW-5	20-Oct-16	30.47	7064.79	7034.32	NM	NM	NM	NM	NM
MW-5	26-Jan-17	30.10	7064.79	7034.69	NM	NM	NM	NM	NM
MW-6	05-Mar-09	12.67	7049.54	7036.87	9.21	4.967	4.30	6.53	4.6
MW-6	10-Sep-09	13.90	7049.54	7035.64	11.85	6.287	1.15	7.12	75.9
MW-6	15-Jan-10	14.02	7049.54	7035.52	10.81	3.789	2.46	7.35	-66.7
MW-6	15-Oct-10	14.39	7049.54	7035.15	12.45	4.353	1.40	7.24	20.7
MW-6	21-Jan-11	14.42	7049.54	7035.12	11.59	4.516	3.10	7.32	-37.3
MW-6	12-May-11	14.00	7049.54	7035.54	10.69	4.349	1.89	7.47	-24.9
MW-6	12-Aug-11	14.93	7049.54	7034.61	11.99	4.492	4.24	7.56	0.2
MW-6	16-Nov-11	14.99	7049.54	7034.55	12.01	4.398	2.74	6.46	182.1
MW-6	21-Feb-12	14.90	7049.54	7034.64	NM	NM	NM	NM	NM
MW-6	25-May-12	14.92	7049.54	7034.62	NM	NM	NM	NM	NM
MW-6	10-Sep-12	NM	7049.54	NM	NM - Well is Dry				
MW-6	04-Dec-12	15.48	7049.54	7034.06	NM	NM	NM	NM	NM
MW-6	26-Mar-13	14.79	7049.54	7034.75	NM	NM	NM	NM	NM
MW-6	27-Jun-13	15.60	7049.54	7033.94	NM	NM	NM	NM	NM
MW-6	25-Sep-13	14.92	7049.54	7034.62	NM	NM	NM	NM	NM
MW-6	14-Jan-14	15.17	7049.54	7034.37	NM	NM	NM	NM	NM
MW-6	04-Apr-14	15.20	7049.54	7034.34	NM	NM	NM	NM	NM
MW-6	10-Sep-14	15.06	7049.54	7034.48	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 Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	pH	ORP (mV)
MW-6	03-Dec-14	15.66	7049.54	7033.88	NM	NM	NM	NM	NM
MW-6	27-Mar-15	14.09	7049.54	7035.45	NM	NM	NM	NM	NM
MW-6	08-Dec-15	15.21	7049.54	7034.33	NM	NM	NM	NM	NM
MW-6	02-Jun-16	14.92	7049.54	7034.62	NM	NM	NM	NM	NM
MW-6	20-Oct-16	15.41	7049.54	7034.13	NM	NM	NM	NM	NM
MW-6	26-Jan-17	14.69	7049.54	7034.85	NM	NM	NM	NM	NM
MW-6	07-Aug-17	30.10	7064.10	7034.00	NM - P&A Completed				
MW-7	06-Mar-09	26.34	7062.80	7036.46	11.40	4.951	2.17	6.50	-3.3
MW-7	10-Sep-09	27.23	7062.80	7035.57	12.61	6.288	1.03	7.05	51.0
MW-7	15-Jan-10	27.44	7062.80	7035.36	11.02	3.820	2.92	7.27	-66.3
MW-7	14-Oct-10	27.76	7062.80	7035.04	12.79	4.047	1.24	7.19	68.6
MW-7	21-Jan-11	27.82	7062.80	7034.98	10.79	4.205	2.22	7.37	42.0
MW-7	12-May-11	27.46	7062.80	7035.34	12.80	4.118	1.73	7.38	-70.4
MW-7	12-Aug-11	28.24	7062.80	7034.56	13.88	4.119	2.90	7.30	112.8
MW-7	16-Nov-11	28.38	7062.80	7034.42	11.24	4.077	2.75	6.32	168.0
MW-7	21-Feb-12	28.31	7062.80	7034.49	NM	NM	NM	NM	NM
MW-7	24-May-12	28.34	7062.80	7034.46	NM	NM	NM	NM	NM
MW-7	10-Sep-12	28.69	7062.80	7034.11	NM	NM	NM	NM	NM
MW-7	04-Dec-12	28.86	7062.80	7033.94	NM	NM	NM	NM	NM
MW-7	26-Mar-13	28.33	7062.80	7034.47	NM	NM	NM	NM	NM
MW-7	27-Jun-13	28.97	7062.80	7033.83	NM	NM	NM	NM	NM
MW-7	25-Sep-13	27.78	7062.80	7035.02	NM	NM	NM	NM	NM
MW-7	14-Jan-14	28.61	7062.80	7034.19	NM	NM	NM	NM	NM
MW-7	04-Apr-14	28.62	7062.80	7034.18	NM	NM	NM	NM	NM
MW-7	10-Sep-14	28.58	7062.80	7034.22	NM	NM	NM	NM	NM
MW-7	03-Dec-14	29.02	7062.80	7033.78	NM	NM	NM	NM	NM
MW-7	27-Mar-15	27.76	7062.80	7035.04	NM	NM	NM	NM	NM
MW-7	08-Dec-15	28.62	7062.80	7034.18	NM	NM	NM	NM	NM
MW-7	02-Jun-16	28.34	7062.80	7034.46	NM	NM	NM	NM	NM
MW-7	20-Oct-16	28.79	7062.80	7034.01	NM	NM	NM	NM	NM
MW-7	26-Jan-17	28.24	7062.80	7034.56	NM	NM	NM	NM	NM
MW-7	07-Aug-17	30.10	7064.10	7034.00	NM - P&A Completed				
MW-8	06-Mar-09	27.49	7063.27	7035.78	11.91	4.731	2.14	6.40	-4.4
MW-8	10-Sep-09	28.14	7063.27	7035.13	13.53	5.987	1.12	8.51	-93.2
MW-8	15-Jan-10	28.39	7063.27	7034.88	11.43	2.891	1.86	6.68	-162.2
MW-8	15-Oct-10	28.70	7063.27	7034.57	12.80	4.017	1.21	7.04	-39.1
MW-8	21-Jan-11	28.80	7063.27	7034.47	12.30	4.002	1.55	7.08	-91.2
MW-8	12-May-11	28.52	7063.27	7034.75	13.16	3.966	1.60	7.16	-121.2
MW-8	12-Aug-11	29.19	7063.27	7034.08	13.85	4.194	3.45	6.97	-148.3
MW-8	16-Nov-11	29.35	7063.27	7033.92	11.49	4.218	2.57	6.49	-115.4
MW-8	21-Feb-12	29.31	7063.27	7033.96	12.21	4.500	0.88	6.96	-116.0
MW-8	24-May-12	29.34	7063.27	7033.93	13.43	4.402	0.65	6.93	-41.2
MW-8	10-Sep-12	29.68	7063.27	7033.59	12.98	4.499	1.34	7.12	-27.3
MW-8	04-Dec-12	29.87	7063.27	7033.40	12.53	3.045	3.78	7.13	-3.1
MW-8	26-Mar-13	29.47	7063.27	7033.80	12.65	4.449	4.10	6.95	22.0
MW-8	27-Jun-13	29.97	7063.27	7033.30	14.39	6.908	8.14	7.01	-43.6
MW-8	25-Sep-13	29.14	7063.27	7034.13	NM	NM	NM	NM	NM
MW-8	14-Jan-14	29.65	7063.27	7033.62	NM	NM	NM	NM	NM
MW-8	04-Apr-14	29.64	7063.27	7033.63	13.14	0.424	1.70	6.80	-14.9

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 Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	pH	ORP (mV)
MW-8	04-Apr-14	29.68	7063.27	7033.59	NM	NM	NM	NM	NM
MW-8	03-Dec-14	30.00	7063.27	7033.27	NM	NM	NM	NM	NM
MW-8	27-Mar-15	29.02	7063.27	7034.25	NM	NM	NM	NM	NM
MW-8	08-Dec-15	29.59	7063.27	7033.68	NM	NM	NM	NM	NM
MW-8	02-Jun-16	29.31	7063.27	7033.96	NM	NM	NM	NM	NM
MW-8	20-Oct-16	29.72	7063.27	7033.55	NM	NM	NM	NM	NM
MW-8	26-Jan-17	29.33	7063.27	7033.94	NM	NM	NM	NM	NM
MW-8	07-Aug-17	30.10	7064.10	7034.00	NM - P&A Completed				
MW-9	06-Mar-09	27.60	7062.60	7035.00	9.47	5.418	5.12	6.39	-1.8
MW-9	06-Apr-09	27.74	7062.60	7034.86	11.86	5.174	2.24	6.72	25.2
MW-9	10-Sep-09	28.19	7062.60	7034.41	13.10	7.257	0.86	7.03	-129.8
MW-9	15-Jan-10	28.42	7062.60	7034.18	10.89	3.960	2.29	7.13	-187.4
MW-9	15-Oct-10	28.74	7062.60	7033.86	12.85	4.561	1.89	7.17	-74.4
MW-9	21-Jan-11	28.85	7062.60	7033.75	12.67	4.452	1.34	7.16	-90.8
MW-9	12-May-11	28.61	7062.60	7033.99	13.12	4.120	2.31	7.28	-94.1
MW-9	12-Aug-11	29.22	7062.60	7033.38	12.92	4.492	5.42	7.33	-132.7
MW-9	16-Nov-11	29.41	7062.60	7033.19	11.80	4.402	2.67	5.56	-75.1
MW-9	21-Feb-12	29.39	7062.60	7033.21	11.89	4.241	1.37	6.95	-127.0
MW-9	24-May-12	29.39	7062.60	7033.21	13.68	4.470	0.80	7.08	-56.4
MW-9	10-Sep-12	29.73	7062.60	7032.87	13.41	4.439	1.41	7.13	-52.2
MW-9	04-Dec-12	29.90	7062.60	7032.70	12.87	4.374	1.34	7.19	-60.5
MW-9	26-Mar-13	29.56	7062.60	7033.04	12.57	4.396	1.24	6.72	-15.8
MW-9	27-Jun-13	30.00	7062.60	7032.60	20.04	6.761	2.38	7.10	-48.5
MW-9	25-Sep-13	29.28	7062.60	7033.32	13.08	8.437	2.44	7.19	-84.6
MW-9	14-Jan-14	29.68	7062.60	7032.92	12.61	5.160	1.11	NM	-54.8
MW-9	04-Apr-14	29.69	7062.60	7032.91	12.89	0.407	2.81	6.89	-48.2
MW-9	10-Sep-14	29.72	7062.60	7032.88	NM	NM	NM	NM	NM
MW-9	03-Dec-14	30.00	7062.60	7032.60	NM	NM	NM	NM	NM
MW-9	27-Mar-15	29.12	7062.60	7033.48	NM	NM	NM	NM	NM
MW-9	08-Dec-15	29.55	7062.60	7033.05	NM	NM	NM	NM	NM
MW-9	02-Jun-16	29.29	7062.60	7033.31	NM	NM	NM	NM	NM
MW-9	20-Oct-16	29.69	7062.60	7032.91	NM	NM	NM	NM	NM
MW-9	26-Jan-17	29.32	7062.60	7033.28	NM	NM	NM	NM	NM
MW-9	07-Aug-17	30.10	7064.10	7034.00	NM - P&A Completed				
MW-10	09-Mar-09	26.25	7063.27	7037.02	10.51	4.572	3.44	6.62	15.6
MW-10	10-Sep-09	27.10	7063.27	7036.17	12.62	5.133	1.83	6.97	80.7
MW-10	15-Jan-10	27.29	7063.27	7035.98	10.82	3.210	2.47	7.10	-99.3
MW-10	14-Oct-10	27.61	7063.27	7035.66	11.98	3.811	1.80	7.22	119.2
MW-10	21-Jan-11	27.66	7063.27	7035.61	10.73	3.946	1.78	7.45	90.1
MW-10	12-May-11	27.28	7063.27	7035.99	12.26	3.839	1.34	7.26	84.9
MW-10	12-Aug-11	28.08	7063.27	7035.19	12.84	3.948	4.99	6.62	175.8
MW-10	16-Nov-11	28.20	7063.27	7035.07	10.81	3.912	2.81	6.17	190.7
MW-10	21-Feb-12	28.13	7063.27	7035.14	NM	NM	NM	NM	NM
MW-10	24-May-12	28.15	7063.27	7035.12	NM	NM	NM	NM	NM
MW-10	10-Sep-12	28.54	7063.27	7034.73	NM	NM	NM	NM	NM
MW-10	04-Dec-12	28.72	7063.27	7034.55	NM	NM	NM	NM	NM
MW-10	26-Mar-13	28.20	7063.27	7035.07	NM	NM	NM	NM	NM
MW-10	27-Jun-13	28.79	7063.27	7034.48	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 Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	Temperature (C)	Conductivity (mS)	DO (mg/L)	pH	ORP (mV)
MW-10	25-Sep-13	27.80	7063.27	7035.47	NM	NM	NM	NM	NM
MW-10	14-Jan-14	28.44	7063.27	7034.83	NM	NM	NM	NM	NM
MW-10	04-Apr-14	28.46	7063.27	7034.81	NM	NM	NM	NM	NM
MW-10	10-Sep-14	28.48	7063.27	7034.79	NM	NM	NM	NM	NM
MW-10	03-Dec-14	28.92	7063.27	7034.35	NM	NM	NM	NM	NM
MW-10	27-Mar-15	27.70	7063.27	7035.57	NM	NM	NM	NM	NM
MW-10	08-Dec-15	28.56	7063.27	7034.71	NM	NM	NM	NM	NM
MW-10	02-Jun-16	28.22	7063.27	7035.05	NM	NM	NM	NM	NM
MW-10	20-Oct-16	28.70	7063.27	7034.57	NM	NM	NM	NM	NM
MW-10	26-Jan-17	28.19	7063.27	7035.08	NM	NM	NM	NM	NM
MW-10	07-Aug-17	30.10	7064.10	7034.00	NM - P&A Completed				
MW-11	09-Mar-09	28.33	7064.10	7035.77	11.47	5.730	3.52	6.63	17.1
MW-11	10-Sep-09	28.88	7064.10	7035.22	13.32	7.785	0.67	7.02	61.2
MW-11	15-Jan-10	29.13	7064.10	7034.97	10.20	3.995	1.86	7.16	-59.2
MW-11	14-Oct-10	29.44	7064.10	7034.66	13.00	4.901	1.93	7.20	94.5
MW-11	21-Jan-11	29.53	7064.10	7034.57	11.55	4.937	1.75	7.37	216.0
MW-11	12-May-11	29.25	7064.10	7034.85	12.97	4.701	2.71	7.41	-16.0
MW-11	12-Aug-11	29.89	7064.10	7034.21	12.89	4.872	3.24	7.39	122.2
MW-11	16-Nov-11	30.07	7064.10	7034.03	11.49	4.762	3.61	7.00	307.9
MW-11	21-Feb-12	30.04	7064.10	7034.06	NM	NM	NM	NM	NM
MW-11	24-May-12	30.06	7064.10	7034.04	NM	NM	NM	NM	NM
MW-11	10-Sep-12	30.38	7064.10	7033.72	NM	NM	NM	NM	NM
MW-11	04-Dec-12	30.58	7064.10	7033.52	NM	NM	NM	NM	NM
MW-11	26-Mar-13	30.23	7064.10	7033.87	NM	NM	NM	NM	NM
MW-11	27-Jun-13	30.66	7064.10	7033.44	NM	NM	NM	NM	NM
MW-11	25-Sep-13	30.00	7064.10	7034.10	NM	NM	NM	NM	NM
MW-11	14-Jan-14	30.39	7064.10	7033.71	NM	NM	NM	NM	NM
MW-11	04-Apr-14	30.36	7064.10	7033.74	NM	NM	NM	NM	NM
MW-11	10-Sep-14	30.42	7064.10	7033.68	NM	NM	NM	NM	NM
MW-11	03-Dec-14	30.73	7064.10	7033.37	NM	NM	NM	NM	NM
MW-11	27-Mar-15	29.83	7064.10	7034.27	NM	NM	NM	NM	NM
MW-11	08-Dec-15	30.34	7064.10	7033.76	NM	NM	NM	NM	NM
MW-11	02-Jun-16	30.04	7064.10	7034.06	NM	NM	NM	NM	NM
MW-11	20-Oct-16	30.45	7064.10	7033.65	NM	NM	NM	NM	NM
MW-11	26-Jan-17	30.10	7064.10	7034.00	NM	NM	NM	NM	NM
MW-11	07-Aug-17	30.10	7064.10	7034.00	NM - P&A Completed				

NOTE: NM = NOT MEASURED
NA = NOT AVAILABLE

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
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	04-Apr-14	NS - Free Product Present (1.18 ft thickness)						
MW-1	26-Sep-14	NS - Free Product Present (0.65 ft thickness)						
MW-1	03-Dec-14	NS - Free Product Present (1.16 ft thickness)						
MW-1	27-Mar-15	NS - Free Product Present (0.28 ft thickness)						
MW-1	08-Dec-15	NS - Free Product Present (1.64 ft thickness)						
MW-1	02-Jun-16	NS - Free Product Present (1.65 ft thickness)						
MW-1	20-Oct-16	NS - Free Product Present (0.74 ft thickness)						
MW-1	26-Jan-17	NS - Free Product Present (0.61 ft thickness)						
MW-1	14-Apr-17	NS - Free Product Present (0.27 ft thickness)						
MW-1	21-Jun-17	NS - Free Product Present (0.34 ft thickness)						
MW-1	28-Sep-17	NS - Free Product Present (1.22 ft thickness)						
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
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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
MW-2	14-Aug-17	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
MW-3	05-Mar-09	400	1,100	110	1,300	8.2	3.4	<5.0
MW-3	11-Sep-09	380	27	26	61	4.2	9.6	6.0
MW-3	15-Jan-10	750	11	34	<20	3.4	7.0	6.1
MW-3	14-Oct-10	140	<1.0	6.8	2.8	0.76	1.9	<5.0
MW-3	21-Jan-11	280	<1.0	24	9.1	1.7	3.5	<5.0
MW-3	12-May-11	980	<1.0	42	<2.0	3.0	4.8	<5.0
MW-3	12-Aug-11	51	<1.0	4.2	<2.0	0.38	<1.0	<5.0
MW-3	16-Nov-11	63	<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	50	<1.0	3.0	<2.0	0.33	<1.0	<5.0
MW-3	10-Sep-12	6.2	<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	30	<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	14-Apr-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	13	<1.0	<1.0	<2.0	0.051	<1.0	<5.0
MW-4	15-Jan-10	8.6	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	15-Oct-10	6.3	<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
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

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	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
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	P&A Complete						
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
MW-7	16-Nov-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	07-Aug-17	P&A Complete						
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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
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	P&A Complete						
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
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	P&A Complete						
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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl- benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
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	P&A Complete						
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	P&A Complete						
Downgradient MW-7*	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

NOTE: NS = Not Sampled

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil Range Organics

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

Photo Log


Photo #1	
Client: Benson Montin Greer	
Project Name: BMG Hwy 537 2008 Release Pilot Study Phase II	
Date Photo Taken: September 26, 2017	
GPS and Location: NA	
Taken by: Sam Glasses, AES	Subject: Phase II Site Installation – MPE-5 Description: View of Interface Probe – Viewing Approx. South


Photo #2	
Client: Benson Montin Greer	
Project Name: BMG Hwy 537 2008 Release Pilot Study Phase II	
Date Photo Taken: September 26, 2017	
GPS and Location: NA	
Taken by: Sam Glasses, AES	Subject: Phase II Site Installation – MPE-5 Description: View of Interface Probe – Viewing Approx. North


Photo #3	
Client: Benson Montin Greer	
Project Name: BMG Hwy 537 2008 Release Pilot Study Phase II	
Date Photo Taken: September 26, 2017	
GPS and Location: NA	
Taken by: Sam Glasses, AES	Subject: Phase II Site Installation – MPE-5 Description: View of vacuum blower


Photo #4	
Client: Benson Montin Greer	
Project Name: BMG Hwy 537 2008 Release Pilot Study Phase II	
Date Photo Taken: September 26, 2017	
GPS and Location: NA	
Taken by: Sam Glasses, AES	Subject: Phase II Site Installation – MPE-5 Description: Photo of Magnehelic reading initial 15" H ₂ O vacuum.


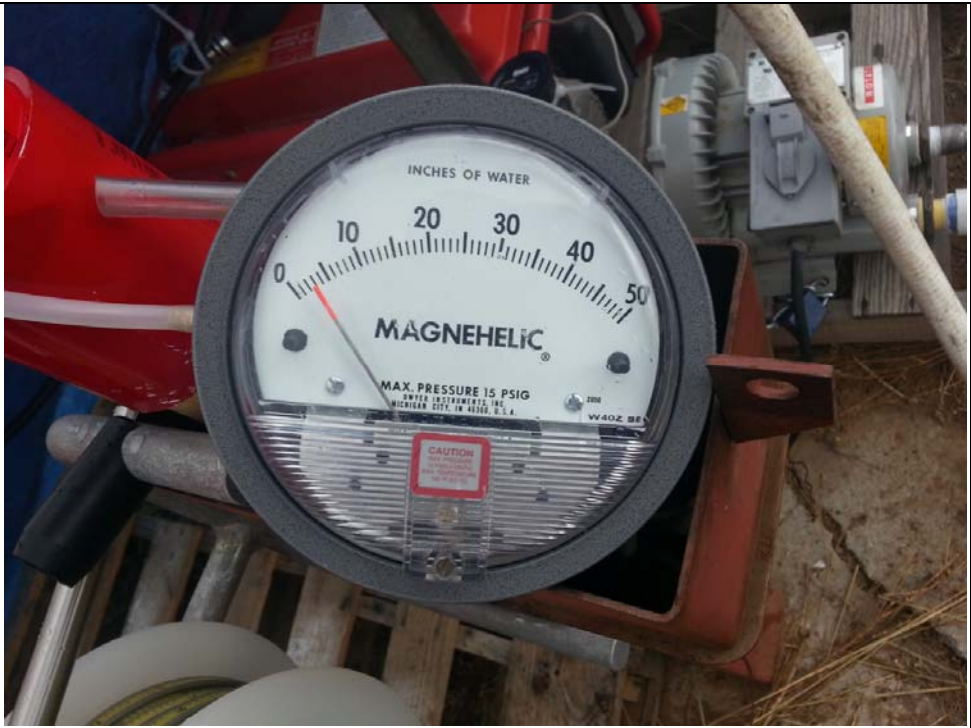
Photo #5	
Client: Benson Montin Greer	
Project Name: BMG Hwy 537 2008 Release Pilot Study Phase II	
Date Photo Taken: September 27, 2017	
GPS and Location: NA	
Taken by: Sam Glasses, AES	Subject: Phase II Site Installation – MPE-5 Description: Impending front and attempt at protection.

Photo #6		
Client: Benson Montin Greer		
Project Name: BMG Hwy 537 2008 Release Pilot Study Phase II		
Date Photo Taken: September 27, 2017		
GPS and Location: NA		
Taken by: Sam Glasses, AES	Subject: Phase II Site Installation – MPE-5	
	Description: Photo of Magnehelic, final reading of 3" H ₂ O vacuum.	

Plugging Records



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: (No OSE File Number) MW-6

Well owner: Benson-Montin-Greer Drilling Corporation

Phone No.: (505) 325-8874

Mailing address: 4900 College Blvd

City: Farmington

State:

NM

Zip code: 87401

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: GEOMAT Inc.

2) New Mexico Well Driller License No.: WD-1762 Expiration Date: 8/30/18

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Kalvin Padilla

4) Date well plugging began: 8/7/17 Date well plugging concluded: 8/7/17

5) GPS Well Location: Latitude: 36 deg, 23 min, 52.57 sec
Longitude: -107 deg, 11 min, 36.00 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 19.08 ft below ground level (bgl),
by the following manner: Water Level Indicator

7) Static water level measured at initiation of plugging: 11.05 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/23/17

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

[illegible]

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, George A. Madrid, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

8/14/17

Signature of Well Driller

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: (No OSE File Number) MW-7

Well owner: Benson-Montin-Greer Drilling Corporation

Phone No.: (505) 325-8874

Mailing address: 4900 College Blvd

City: Farmington

State: NM

Zip code: 87401

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: GEOMAT Inc.

2) New Mexico Well Driller License No.: WD-1762 Expiration Date: 8/30/18

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Kalvin Padilla

4) Date well plugging began: 8/7/17 Date well plugging concluded: 8/7/17

5) GPS Well Location: Latitude: 36 deg, 23 min, 53.03 sec
Longitude: -107 deg, 11 min, 37.10 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 40 ft below ground level (bgl),
by the following manner: Water Level Indicator

7) Static water level measured at initiation of plugging: 25 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/23/17

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

[illegible]

MULTIPLY		BY	=	AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, George A. Madrid, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

8/14/17

Signature of Well Driller

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: (No OSE File Number) MW-8

Well owner: Benson-Montin-Greer Drilling Corporation

Phone No.: (505) 325-8874

Mailing address: 4900 College Blvd

City: Farmington

State:

NM

Zip code: 87401

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: GEOMAT Inc.

2) New Mexico Well Driller License No.: WD-1762 Expiration Date: 8/30/18

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Kalvin Padilla

4) Date well plugging began: 8/7/17 Date well plugging concluded: 8/7/17

5) GPS Well Location: Latitude: 36 deg, 23 min, 53.45 sec
Longitude: -107 deg, 11 min, 37.83 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 40 ft below ground level (bgl),
by the following manner: Water Level Indicator

7) Static water level measured at initiation of plugging: 19 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/23/17

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
	Type I/II Cement Pure Bentonite Powder	6.5	6.5	Tremie Pipe	Surface
<div style="float: right; width: 100px;"> MULTIPLY BY AND OBTAIN cubic feet x 7.4805 = gallons cubic yards x 201.97 = gallons </div>					

III. SIGNATURE:

I, George A. Madrid, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

8/14/17

Signature of Well Driller

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: (No OSE File Number) MW-9

Well owner: Benson-Montin-Greer Drilling Corporation

Phone No.: (505) 325-8874

Mailing address: 4900 College Blvd

City: Farmington

State: NM

Zip code: 87401

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: GEOMAT Inc.

2) New Mexico Well Driller License No.: WD-1762 Expiration Date: 8/30/18

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Kalvin Padilla

4) Date well plugging began: 8/7/17 Date well plugging concluded: 8/7/17

5) GPS Well Location: Latitude: 36 deg, 23 min, 52.92 sec
Longitude: -107 deg, 11 min, 38.44 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 35 ft below ground level (bgl),
by the following manner: Water Level Indicator

7) Static water level measured at initiation of plugging: 26 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/23/17

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

[illegible]

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

III. SIGNATURE:

I, George A. Madrid, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

8/14/17

Signature of Well Driller

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: (No OSE File Number) MW-10

Well owner: Benson-Montin-Greer Drilling Corporation

Phone No.: (505) 325-8874

Mailing address: 4900 College Blvd

City: Farmington

State: NM

Zip code: 87401

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: GEOMAT Inc.

2) New Mexico Well Driller License No.: WD-1762 Expiration Date: 8/30/18

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Kalvin Padilla

4) Date well plugging began: 8/7/17 Date well plugging concluded: 8/7/17

5) GPS Well Location: Latitude: 36 deg, 23 min, 53.76 sec
Longitude: -107 deg, 11 min, 35.45 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 35 ft below ground level (bgl),
by the following manner: Water Level Indicator

7) Static water level measured at initiation of plugging: 25 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/23/17

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: (No OSE File Number) MW-11

Well owner: Benson-Montin-Greer Drilling Corporation

Phone No.: (505) 325-8874

Mailing address: 4900 College Blvd

City: Farmington

State: NM

Zip code: 87401

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: GEOMAT Inc.

2) New Mexico Well Driller License No.: WD-1762 Expiration Date: 8/30/18

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Kalvin Padilla

4) Date well plugging began: 8/7/17 Date well plugging concluded: 8/7/17

5) GPS Well Location: Latitude: 36 deg, 23 min, 54.16 sec
Longitude: -107 deg, 11 min, 38.2 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 40 ft below ground level (bgl),
by the following manner: Water Level Indicator

7) Static water level measured at initiation of plugging: 27 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 3/23/17

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

[illegible]

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

III. SIGNATURE:

I, George A. Madrid, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

8/14/17

Signature of Well Driller

Date _____

Laboratory Report



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

August 27, 2017

R Flegal

Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: BMG HWY 537 2009 Release

OrderNo.: 1708861

Dear R Flegal:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/15/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708861

Date Reported: 8/27/2017

CLIENT: Animas Environmental Services

Client Sample ID: MW-2

Project: BMG HWY 537 2009 Release

Collection Date: 8/14/2017 9:52:00 AM

Lab ID: 1708861-001

Matrix: AQUEOUS

Received Date: 8/15/2017 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA	
Benzene	ND	1.0		µg/L	1	8/23/2017 3:13:00 PM	SL45152
Toluene	ND	1.0		µg/L	1	8/23/2017 3:13:00 PM	SL45152
Ethylbenzene	ND	1.0		µg/L	1	8/23/2017 3:13:00 PM	SL45152
Xylenes, Total	ND	1.5		µg/L	1	8/23/2017 3:13:00 PM	SL45152
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	8/23/2017 3:13:00 PM	SL45152
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	8/23/2017 3:13:00 PM	SL45152
Surr: Dibromofluoromethane	102	70-130		%Rec	1	8/23/2017 3:13:00 PM	SL45152
Surr: Toluene-d8	97.0	70-130		%Rec	1	8/23/2017 3:13:00 PM	SL45152

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	Page 1 of 6
	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 Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708861

Date Reported: 8/27/2017

CLIENT: Animas Environmental Services

Client Sample ID: MW-3

Project: BMG HWY 537 2009 Release

Collection Date: 8/14/2017 10:40:00 AM

Lab ID: 1708861-002

Matrix: AQUEOUS

Received Date: 8/15/2017 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/23/2017 4:26:00 PM	SL45152
Toluene	ND	1.0		µg/L	1	8/23/2017 4:26:00 PM	SL45152
Ethylbenzene	ND	1.0		µg/L	1	8/23/2017 4:26:00 PM	SL45152
Xylenes, Total	ND	1.5		µg/L	1	8/23/2017 4:26:00 PM	SL45152
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	8/23/2017 4:26:00 PM	SL45152
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/23/2017 4:26:00 PM	SL45152
Surr: Dibromofluoromethane	101	70-130		%Rec	1	8/23/2017 4:26:00 PM	SL45152
Surr: Toluene-d8	98.1	70-130		%Rec	1	8/23/2017 4:26:00 PM	SL45152

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	Page 2 of 6
	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 Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708861

Date Reported: 8/27/2017

CLIENT: Animas Environmental Services

Client Sample ID: MW-4

Project: BMG HWY 537 2009 Release

Collection Date: 8/14/2017 11:27:00 AM

Lab ID: 1708861-003

Matrix: AQUEOUS

Received Date: 8/15/2017 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA	
Benzene	ND	1.0		µg/L	1	8/23/2017 4:51:00 PM	SL45152
Toluene	ND	1.0		µg/L	1	8/23/2017 4:51:00 PM	SL45152
Ethylbenzene	ND	1.0		µg/L	1	8/23/2017 4:51:00 PM	SL45152
Xylenes, Total	ND	1.5		µg/L	1	8/23/2017 4:51:00 PM	SL45152
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	8/23/2017 4:51:00 PM	SL45152
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	8/23/2017 4:51:00 PM	SL45152
Surr: Dibromofluoromethane	98.5	70-130		%Rec	1	8/23/2017 4:51:00 PM	SL45152
Surr: Toluene-d8	98.4	70-130		%Rec	1	8/23/2017 4:51:00 PM	SL45152

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	Page 3 of 6
	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 Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708861

Date Reported: 8/27/2017

CLIENT: Animas Environmental Services

Client Sample ID: TRIP BLANK

Project: BMG HWY 537 2009 Release

Collection Date:

Lab ID: 1708861-004

Matrix: AQUEOUS

Received Date: 8/15/2017 6:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/23/2017 5:15:00 PM	SL45152
Toluene	ND	1.0		µg/L	1	8/23/2017 5:15:00 PM	SL45152
Ethylbenzene	ND	1.0		µg/L	1	8/23/2017 5:15:00 PM	SL45152
Xylenes, Total	ND	1.5		µg/L	1	8/23/2017 5:15:00 PM	SL45152
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	8/23/2017 5:15:00 PM	SL45152
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	8/23/2017 5:15:00 PM	SL45152
Surr: Dibromofluoromethane	102	70-130		%Rec	1	8/23/2017 5:15:00 PM	SL45152
Surr: Toluene-d8	96.8	70-130		%Rec	1	8/23/2017 5:15:00 PM	SL45152

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 Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708861

27-Aug-17

Client: Animas Environmental Services

Project: BMG HWY 537 2009 Release

Sample ID 100ng lcs	SampType: LCS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: LCSW	Batch ID: SL45152		RunNo: 45152							
Prep Date:	Analysis Date: 8/23/2017		SeqNo: 1430993		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	19	1.0	20.00	0	96.2	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.9		10.00		98.9	70	130			

Sample ID RB	SampType: MBLK		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batch ID: SL45152		RunNo: 45152							
Prep Date:	Analysis Date: 8/23/2017		SeqNo: 1430994		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.9		10.00		99.0	70	130			

Sample ID 1708861-001ams	SampType: MS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: MW-2	Batch ID: SL45152		RunNo: 45152							
Prep Date:	Analysis Date: 8/23/2017		SeqNo: 1430996		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	19	1.0	20.00	0	97.0	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Sample ID 1708861-001amsd	SampType: MSD		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: MW-2	Batch ID: SL45152		RunNo: 45152							
Prep Date:	Analysis Date: 8/23/2017		SeqNo: 1430997		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130	1.86	20	
Toluene	19	1.0	20.00	0	95.1	70	130	2.05	20	

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 Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708861

27-Aug-17

Client: Animas Environmental Services

Project: BMG HWY 537 2009 Release

Sample ID	1708861-001amsd	SampType:	MSD	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	MW-2	Batch ID:	SL45152	RunNo:	45152					
Prep Date:		Analysis Date:	8/23/2017	SeqNo:	1430997	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		101	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		99.1	70	130	0	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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1708861

RcptNo: 1

Received By: Anne Thorne

8/15/2017 6:50:00 AM

Completed By: Anne Thorne

8/15/2017 10:12:52 AM

Reviewed By: IMO

8-16-17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. 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:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record						Turn-Around Time:
Client: Animas Environmental Services, LLC						X Standard <input type="checkbox"/> Rush
Mailing Address:						Project Name: BMG HWY 537 2009 Release
604 W Pinon St, Farmington, NM 87401						
Phone #: 505 - 564 - 2281						
Email or Fax#: 505 - 324 - 2022 rflegal@animasenviro.com						
QA/QC Package: X Standard <input type="checkbox"/> Level 4 (Full Validation)						
Accreditation: <input checked="" type="checkbox"/> NELAP <input type="checkbox"/> Other _____						Sampler: S.Glasses
<input checked="" type="checkbox"/> EDD (Type) _____						On Ice: X Yes <input type="checkbox"/> No
						Sample Temperature: 14
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
8/14/17	09:52	H2O	MW-2	5 - 40 mL VOAs 1-250mL Amber	HgCl non	1708861
8/14/17	10:40	H2O	MW-3	5 - 40 mL VOAs 1-250mL Amber	HgCl	201
8/14/17	11:27	H2O	MW-4	5 - 40 mL VOAs 1-250mL Amber	HgCl	202
						203
		H2O	Trip Blank	2 - mL VOAs	HCl	204
Date:	Time:	Relinquished by:	Received by:		Date	Time
8/14/17	1712	[Signature]	[Signature]		8/14/17	1712
Date:	Time:	Relinquished by:	Received by:		Date	Time
8/14/17	1810	[Signature]	[Signature]		8/15/17	0650

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.