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April 19, 2012

Glenn von Gonten New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505 624 E. Comandre Farmington, NM 87401 505 564 2251

> Durango, Colonado 970-403 %274

Re: Periodic Progress Report for the Benson-Montin-Greer Highway 537 Truck Receiving Station 2009 Oil Release, Rio Arriba County, New Mexico

Dear Mr. von Gonten:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Periodic Progress Report detailing site activities at the BMG Highway 537 Truck Receiving Station 2009 oil release location. This Periodic Progress Report provides details of groundwater monitoring and sampling events conducted at the site in November 2011 and February 2012. Sampling was conducted in accordance with recommendations presented in the Site Investigation Report prepared by AES and submitted on April 10, 2009.

1.0 Site Information

1.1 Site Location

The BMG Highway 537 Truck Receiving Station consists 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.

The truck receiving station is located along the south side of New Mexico 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 SW¼ NW¼ Section 18, T25N, R3W in Rio Arriba County, New Mexico. Latitude and longitude were recorded as being N36.39866 and W107.19328. A topographic site location map, based on an excerpt from the United States Geological Survey (USGS) 7.5-minute Schmitz Ranch, Rio Arriba County, New Mexico topographic quadrangle (USGS 1963), is included as Figure 1. An aerial map with site plan, including existing monitor wells, is presented as Figure 2.

1.2 Release History

On 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, and immediately contacted BMG. BMG personnel arrived on-site later in the morning 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 Mr. Brandon Powell, New Mexico Oil Conservation Division (NMOCD), to provide notification and intended response to the release. Also on January 29, 2009, BMG contracted with TNT Excavating (TNT) to remove the buried 6-inch line in order to determine where the leak originated.

On January 30, 2009, TNT used a trackhoe to excavate an area around the buried 6-inch line measuring 10 feet by 20 feet by 15 feet in depth. AES collected soil samples from the base of the excavation for field screening with a photo-ionization detector (PID) organic vapor meter (OVM). Field screening results at 12 feet below ground surface (bgs) were 5,861 parts per million (ppm) volatile organic compounds (VOCs), and at 15 feet bgs VOCs were measured at 6,640 ppm. Additionally, AES collected one soil sample at 15 feet bgs for laboratory analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH). The soil sample was analyzed by Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico. The analytical results of the soil sample collected on January 30, 2009, had total BTEX concentrations of 1,657 mg/kg and total TPH concentrations of 20,300 mg/kg.

Following a thorough inspection of the buried 6-inch line, BMG personnel discovered a small external corrosion hole, measuring approximately 1/8 inch in diameter, 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 excavating additional soils in order to determine the extent of the release would be difficult and 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 Groundwater Sampling – November 2011 and February 2012

2.1 November 2011

AES personnel conducted groundwater monitoring and sampling at the project area on November 16, 2011. Groundwater samples were laboratory analyzed for BTEX and TPH per EPA Methods 8021/8015 at Hall, Albuquerque, New Mexico.

Following depth to water measurement, each well was purged with a disposable bailer until recorded temperature, pH, conductivity, and dissolved oxygen (DO) measurements were stabilized. All data was recorded onto Water Sample Collection Forms.

2.1.1 Groundwater Measurements and Water Quality Data

During the November 2011 sampling event, groundwater and water quality measurements were recorded for MW-1 through MW-11. Average groundwater elevations decreased across the site by an average of 0.14 feet since the August 2011 sampling event. Groundwater gradient was calculated between MW-2 and MW-9, with a magnitude of 0.008 ft/ft to the southwest, for November 2011. Depth to groundwater ranged from 14.99 feet bgs in MW-6 to 30.07 feet bgs in MW-11.

Water quality measurements were made with an YSI Water Quality Meter, and temperatures ranged from 10.81°C in MW-10 to 12.01°C in MW-6. DO concentrations were between 2.15 mg/L in MW-4 and 4.47 mg/L in MW-5. ORP measurements were between -115.4 mV in MW-8 and 307.9 mV in MW-11, and conductivity readings were between 3.912 mS/cm and 4.814 mS/cm. Depth to groundwater measurements and water quality data are presented in Table 1, and Water Sample Collection Forms are included as Appendix A.

5.1.2 Groundwater Analytical Results

Laboratory results showed benzene concentrations above the applicable New Mexico Water Quality Control Commission (WQCC) standard of 10 μ g/L in MW-1 (2,700 μ g/L), MW-3 (63 μ g/L), and MW-9 (200 μ g/L). Benzene concentrations were below laboratory detection limits or the WQCC standard in the remaining sampled wells. Toluene, ethylbenzene, and xylene concentrations were below applicable WQCC standards in each of the wells sampled. TPH concentrations for gasoline range organics (GRO) were reported above laboratory

detection limits in MW-1 (3.9 mg/L), MW-8 (0.17 mg/L), and MW-9 (0.57 mg/L). TPH concentrations for diesel and motor oil range organics (DRO and MRO) were reported below laboratory detection limits in all sampled wells, except MW-3 which had a reported DRO concentration of 3.9 mg/L. Tabulated laboratory analytical results are included in Table 2, and laboratory analytical reports for November 2011 are presented in Appendix B.

5.2 February 2012

The first quarterly groundwater and sampling event of 2012 was conducted by AES personnel on February 21, 2012. Groundwater samples from MW-1, MW-3, MW-4, MW-8, and MW-9 were laboratory analyzed for BTEX per EPA Method 8021 and TPH per EPA Method 8015 at Hall. No samples were collected from MW-2, MW-5 through MW-7, MW-10, and MW-11 because these wells have remained below laboratory detection limits for BTEX and TPH for eight sampling events.

5.2.1 Groundwater Measurements and Water Quality Data

During the February 2012 sampling event, groundwater measurements were recorded for MW-1 through MW-11. Average groundwater elevations increased across the site by an average of 0.06 feet since the November 2011 sampling event. Groundwater gradient was calculated between MW-2 and MW-9, with a magnitude of 0.008 ft/ft to the southwest, for February 2012. Groundwater elevations ranged from 7,033.21 feet bgs in MW-9 and 7,035.19 feet bgs in MW-2. Groundwater elevation data and contours are presented in Figure 3.

Groundwater quality measurements were recorded for MW-1, MW-3, MW-4, MW-8 and MW-9. Recorded temperatures ranged from 10.27°C in MW-4 to 12.21°C in MW-8. Groundwater pH measurements ranged from 6.78 to 7.09, and DO concentrations were between 0.88 mg/L in MW-8 and 1.37 mg/L in MW-9. ORP measurements were between - 127.0 mV in MW-9 and -11.3 mV in MW-4, and conductivity readings were between 4.063 mS/cm and 4.927 mS/cm. Depth to groundwater measurements and water quality data are presented in Table 1. Water Sample Collection Forms are included as Appendix A.

5.2.2 Groundwater Analytical Results

Dissolved phase benzene concentrations above the applicable WQCC standard of 10 μ g/L continue to be reported in MW-1 (360 μ g/L) and MW-9 (120 μ g/L), but concentrations decreased since the November 2011 sampling event. Benzene concentrations were below laboratory detection limits or the WQCC standard in the remaining sampled wells. Toluene, ethylbenzene, and xylene concentrations were below applicable WQCC standards in each of the wells sampled. GRO concentrations above the laboratory detection limit were reported in MW-1 (1.2 mg/L), MW-3 (0.18 mg/L), and MW-9 (0.30 mg/L), but note that GRO concentrations have also decreased since the November 2011 sampling event. DRO and

MRO concentrations were reported below the laboratory detection limits in all wells sampled. Tabulated laboratory analytical results are included in Table 2. Contaminant concentrations are included in Figure 4, and dissolved phase benzene contours are presented in Figure 5. Graphs 1 through 4 present groundwater elevations and dissolved phase benzene concentrations for MW-1, MW-3, MW-8, and MW-9, respectively. Laboratory analytical reports for February 2012 are included in Appendix A.

3.0 Conclusions and Recommendations

AES conducted groundwater monitoring and sampling events on November 16, 2011, and February 21, 2012. All eleven wells (MW-1 through MW-11) were sampled during the November 2011 event. In February 2012, samples were collected from monitor wells MW-1, MW-3, MW-8, and MW-9. Monitor wells MW-2, MW-5 through MW-7, MW-10, and MW-11 have remained below the WQCC standards for BTEX and below laboratory detection limits for TPH for eight sampling events and therefore were not sampled during the February 2012 sampling event.

Benzene concentrations have fluctuated within MW-1, MW-3, MW-8, and MW-9 since well installation in 2009. Significant decreases in benzene concentrations since the November 2011 sampling event were reported in February 2012 in MW-1 (from 2,700 μ g/L to 360 μ g/L), MW-3 (from 63 μ g/L to 4.8 μ g/L), and MW-9 (from 200 μ g/L to 120 μ g/L). Toluene, ethylbenzene, and xylenes have remained below the applicable WQCC standards in all wells. GRO concentrations from the February 2012 sampling event were reported above the laboratory detection limit in MW-1, MW-3, and MW-9, with the highest concentration being reported in MW-1 (1.2 μ g/L). GRO concentrations in these wells have decreased since the November 2011 sampling event. DRO and MRO concentrations were reported below the laboratory detection limit in all wells during the February 2012 sampling event.

Based on laboratory analytical results, AES recommends continuing groundwater monitoring and sampling of monitor wells for MW-1, MW-3, MW-8, and MW-9 on a quarterly basis through the end of 2012. It is recommended that MW-4 be sampled one more time, and if dissolved phase concentrations are below applicable WQCC standards, then subsequent sampling of this well can be suspended.

4.0 Scheduled Site Activities

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The next groundwater sampling event has tentatively been scheduled for May 2012. Samples collected from monitor wells MW-1, MW-3, MW-4, MW-8, and MW-9 will be laboratory analyzed for BTEX per EPA Method 8021 and TPH per EPA Method 8015.

If you have any questions regarding this report or site conditions, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

Deborah Watson Project Manager

Elizabeth McNally, P.E.

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Tables

Table 1. Summary of Groundwater Measurement Data Table 2. Summary of Groundwater Analytical Results

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- Figure 4. Groundwater Contaminant Concentrations, February 2012
- Figure 5. Dissolved Phase Benzene Contours, February 2012

Graphs

- Graph 1. MW-1 Groundwater Elevations and Benzene Concentrations, February 2012
- Graph 2. MW-3 Groundwater Elevations and Benzene Concentrations, February 2012
- Graph 3. MW-8 Groundwater Elevations and Benzene Concentrations, February 2012
- Graph 4. MW-9 Groundwater Elevations and Benzene Concentrations, February 2012

Appendices

Appendix A. Water Sample Collection Forms, November 2011 and February 2012

Appendix B. Laboratory Analytical Reports, 1111785 and 1202828

cc: Mike Dimond

Benson-Montin-Greer Drilling Corp.

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Craig Schmitz, Private Land Owner

#70 County Road 405

Lindrith, New Mexico 87029

Brandon Powell

New Mexico Oil Conservation Division

1000 Rio Brazos Road Aztec, New Mexico 87410

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SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE TABLE 1

Well ID Date Depth to Surveyed GW Elev. Temperature Conductivity DO PH (my) MW4.1 Sampled Water (ft) TOC (ft) (ft) (G) 5.231 1.27 6.64 -36.1 MW4.1 11.5ep-09 28.56 7064.66 7035.73 1.229 5.231 1.27 6.64 -36.1 MW4.1 15Jan-10 28.91 7064.66 7035.46 13.77 4.642 1.51 7.14 4.73 MW4.1 15-Oct-10 29.20 7064.66 7035.38 12.42 4.642 1.51 7.14 -17.9 MW4.1 12-May-11 28.93 7064.66 7035.38 12.22 4.642 1.51 -17.9 MW4.1 12-May-11 28.93 7064.66 7035.79 1.20 4.63 1.53 3.83 0.06 6.64 7.01 9.93 4.07 4.64 1.73 4.64 1.73 1.74 1.73 9.64 1.77 1.74										
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15-Jan-10 28.62 7064.65 7036.03 12.49 3.604 2.10 7.57 14-Oct-10 28.91 7064.65 7035.74 12.49 3.968 1.71 7.40 21-Jan-11 28.99 7064.65 7035.66 11.44 4.045 1.62 8.56 12-May-11 28.63 7064.65 7035.02 13.14 4.045 1.62 8.56 12-May-11 28.63 7064.65 7035.28 14.08 4.102 4.36 7.67 16-Nov-11 29.37 7064.65 7035.13 11.60 4.021 2.48 7.51 21-Feb-12 29.46 7064.65 7035.19 NM NM NM NM 11-Sep-09 27.16 7064.01 7036.85 12.29 4.310 2.17 6.66 11-Sep-09 27.99 7064.01 7035.79 11.99 3.607 1.85 7.27 12-Jan-10 28.54 7064.01 7035.40 12.41 4.122 1.60 </th <th>MW-2</th> <th>10-Sep-09</th> <th>28.38</th> <th>7064.65</th> <th>7036.27</th> <th>12.93</th> <th>6.480</th> <th>1.09</th> <th>7.58</th> <th>62.2</th>	MW-2	10-Sep-09	28.38	7064.65	7036.27	12.93	6.480	1.09	7.58	62.2
14-Oct-10 28.91 7064.65 7035.74 12.49 3.968 1.71 7.40 21-Jan-11 28.99 7064.65 7035.66 11.44 4.045 1.62 8.56 12-May-11 28.63 7064.65 7035.02 13.14 4.087 1.43 7.67 12-May-11 28.63 7064.65 7035.28 14.08 4.102 4.36 7.09 16-Nov-11 29.37 7064.65 7035.13 11.60 4.021 2.48 7.51 21-Feb-12 29.46 7064.65 7035.19 NM NM NM NM 05-Mar-09 27.16 7064.01 7036.85 12.29 4.310 2.17 6.66 15-Jan-10 28.22 7064.01 7036.02 13.50 6.080 0.53 9.43 15-Jan-10 28.54 7064.01 7035.47 12.41 4.180 1.46 7.24 12-Jan-11 28.50 7064.01 7035.80 12.41 4.172 2.25 </th <th>MW-2</th> <th>15-Jan-10</th> <th>28.62</th> <th>7064.65</th> <th>7036.03</th> <th>12.49</th> <th>3.604</th> <th>2.10</th> <th>7.57</th> <th>-70.3</th>	MW-2	15-Jan-10	28.62	7064.65	7036.03	12.49	3.604	2.10	7.57	-70.3
21-Jan-11 28.99 7064.65 7035.66 11.44 4.045 1.62 8.56 12-May-11 28.63 7064.65 7035.28 14.08 4.102 4.36 7.09 12-Aug-11 29.37 7064.65 7035.28 14.08 4.102 4.36 7.09 16-Nov-11 29.52 7064.65 7035.13 11.60 4.021 2.48 7.51 21-Feb-12 29.46 7064.65 7035.19 NM NM NM NM 05-Mar-09 27.16 7064.01 7036.02 12.29 4.310 2.17 6.66 11-Sep-09 27.99 7064.01 7035.02 13.50 6.080 0.53 9.43 15-Jan-10 28.54 7064.01 7035.79 11.99 3.607 1.85 7.27 14-Oct-10 28.54 7064.01 7035.41 11.92 4.122 1.60 7.20 12-May-11 28.50 7064.01 7035.41 11.32 4.172 2.25 </th <th>MW-2</th> <td>14-Oct-10</td> <td>28.91</td> <td>7064.65</td> <td>7035.74</td> <td>12.49</td> <td>3.968</td> <td>1.71</td> <td>7.40</td> <td>6.86</td>	MW-2	14-Oct-10	28.91	7064.65	7035.74	12.49	3.968	1.71	7.40	6.86
12-May-11 28.63 7064.65 7036.02 13.14 4.087 1.43 7.67 12-Aug-11 29.37 7064.65 7035.28 14.08 4.102 4.36 7.09 16-Nov-11 29.52 7064.65 7035.13 11.60 4.021 2.48 7.51 21-Feb-12 29.46 7064.65 7035.19 NM NM NM NM 05-Mar-09 27.16 7064.01 7036.85 12.29 4.310 2.17 6.66 11-Sep-09 27.99 7064.01 7036.02 13.50 6.080 0.53 9.43 15-Jan-10 28.54 7064.01 7035.49 11.99 3.607 1.46 7.24 21-Jan-11 28.60 7064.01 7035.41 11.92 4.124 1.60 7.20 12-May-11 28.21 7064.01 7035.40 12.56 4.172 2.25 7.28 12-Aug-11 29.02 7064.01 7034.99 13.32 4.372 2.35 </th <th>MW-2</th> <td>21-Jan-11</td> <td>28.99</td> <td>7064.65</td> <td>7035.66</td> <td>11.44</td> <td>4.045</td> <td>1.62</td> <td>8.56</td> <td>-6.2</td>	MW-2	21-Jan-11	28.99	7064.65	7035.66	11.44	4.045	1.62	8.56	-6.2
12-Aug-11 29.37 7064.65 7035.28 14.08 4.102 4.36 7.09 16-Nov-11 29.52 7064.65 7035.13 11.60 4.021 2.48 7.51 21-Feb-12 29.46 7064.65 7035.19 NM NM NM NM 05-Mar-09 27.16 7064.01 7036.85 12.29 4.310 2.17 6.66 11-Sep-09 27.99 7064.01 7036.02 13.50 6.080 0.53 9.43 15-Jan-10 28.24 7064.01 7035.79 11.99 3.607 1.85 7.24 21-Jan-11 28.54 7064.01 7035.41 11.92 4.120 1.46 7.24 21-Jan-11 28.60 7064.01 7035.41 11.92 4.172 2.25 7.28 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.17 12-Aug-11 29.02 7064.01 7034.99 13.32 4.372 2.35 </th <th>MW-2</th> <th>12-May-11</th> <th>28.63</th> <th>7064.65</th> <th>7036.02</th> <th>13.14</th> <th>4.087</th> <th>1.43</th> <th>79.7</th> <th>-66.7</th>	MW-2	12-May-11	28.63	7064.65	7036.02	13.14	4.087	1.43	79.7	-66.7
16-Nov-11 29.52 7064.65 7035.13 11.60 4.021 2.48 7.51 21-Feb-12 29.46 7064.65 7035.19 NM NM NM NM NM 05-Mar-09 27.16 7064.01 7036.85 12.29 4.310 2.17 6.66 6.06 11-Sep-09 27.99 7064.01 7036.02 13.50 6.080 0.53 9.43 6.06 15-Jan-10 28.22 7064.01 7035.79 11.99 3.607 1.85 7.27 14-Oct-10 28.54 7064.01 7035.41 11.92 4.224 1.60 7.20 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.28 12-May-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17	MW-2	12-Aug-11	29.37	7064.65	7035.28	14.08	4.102	4.36	7.09	160.2
1-Feb-12 29.46 7064.65 7035.19 NM NM NM NM NM 05-Mar-09 27.16 7064.01 7036.85 12.29 4.310 2.17 6.66 11-Sep-09 27.99 7064.01 7036.02 13.50 6.080 0.53 9.43 15-Jan-10 28.22 7064.01 7035.79 11.99 3.607 1.85 7.27 14-Oct-10 28.54 7064.01 7035.47 12.41 4.180 1.46 7.24 21-Jan-11 28.60 7064.01 7035.41 11.92 4.224 1.60 7.20 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.28 12-May-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17	MW-2	16-Nov-11	29.52	7064.65	7035.13	11.60	4.021	2.48	7.51	176.2
05-Mar-09 27.16 7064.01 7036.85 12.29 4.310 2.17 6.66 11-Sep-09 27.99 7064.01 7036.02 13.50 6.080 0.53 9.43 15-Jan-10 28.54 7064.01 7035.47 12.41 4.180 1.46 7.24 21-Jan-11 28.54 7064.01 7035.41 11.92 4.224 1.60 7.20 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.28 12-May-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17	MW-2	21-Feb-12	29.46	7064.65	7035.19	NM	NM	NM	MN	NM
05-Mar-09 27.16 7064.01 7036.85 12.29 4.310 2.17 6.66 11-Sep-09 27.99 7064.01 7036.02 13.50 6.080 0.53 9.43 15-Jan-10 28.22 7064.01 7035.79 11.99 3.607 1.85 7.27 14-Oct-10 28.54 7064.01 7035.47 11.41 4.180 1.46 7.24 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.28 12-May-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17										
11-Sep-09 27.99 7064.01 7036.02 13.50 6.080 0.53 9.43 15-Jan-10 28.22 7064.01 7035.79 11.99 3.607 1.85 7.27 14-Oct-10 28.54 7064.01 7035.47 12.41 4.180 1.46 7.24 21-Jan-11 28.60 7064.01 7035.41 11.92 4.224 1.60 7.20 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.28 12-Aug-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17	MW-3	05-Mar-09	27.16	7064.01	7036.85	12.29	4.310	2.17	99'9	-28.2
15-Jan-10 28.22 7064.01 7035.79 11.99 3.607 1.85 7.27 14-Oct-10 28.54 7064.01 7035.47 12.41 4.180 1.46 7.24 21-Jan-11 28.60 7064.01 7035.41 11.92 4.224 1.60 7.20 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.28 12-Aug-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17	MW-3	11-Sep-09	27.99	7064.01	7036.02	13.50	080.9	0.53	9.43	-163.6
14-Oct-10 28.54 7064.01 7035.47 12.41 4.180 1.46 7.24 21-Jan-11 28.60 7064.01 7035.41 11.92 4.224 1.60 7.20 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.28 12-Aug-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17	MW-3	15-Jan-10	28.22	7064.01	7035.79	11.99	3.607	1.85	7.27	-222.5
21-Jan-11 28.60 7064.01 7035.41 11.92 4.224 1.60 7.20 12-May-11 28.21 7064.01 7035.80 12.56 4.172 2.25 7.28 12-Aug-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17	MW-3	14-Oct-10	28.54	7064.01	7035.47	12.41	4.180	1.46	7.24	-53.1
12-May-1128.217064.017035.8012.564.1722.257.2812-Aug-1129.027064.017034.9913.324.3722.357.17	MW-3	21-Jan-11	28.60	7064.01	7035.41	11.92	4.224	1.60	7.20	-122.5
12-Aug-11 29.02 7064.01 7034.99 13.32 4.372 2.35 7.17	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

Animas Environmental Services, LLC

Labs 022112

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Periodic Progress Report

April 19, 2012

SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE TABLE 1

Well ID Date Depth to Surveyed GWElev. Temperature Conductivity DO MW-3 16-Nov-11 29.14 7064.01 7034.87 10.87 4.326 2.17 6.53 MW-4 16-Nov-11 29.14 7064.01 7036.33 12.36 4.481 1.01 7.09 MW-4 05-Mar-09 27.39 7063.72 7036.33 12.36 4.760 1.72 6.58 MW-4 10-Sep-09 27.58 7063.72 7035.60 13.09 6.337 0.81 7.09 MW-4 15-Ian-10 28.43 7063.72 7035.68 11.65 4.491 1.47 7.13 MW-4 15-Ian-10 28.43 7063.72 7035.68 11.50 4.491 1.42 7.13 MW-4 15-Ian-11 28.27 7063.72 7035.69 11.50 4.491 1.42 7.13 MW-4 12-Aug-11 29.00 7063.72 7035.69 1.156 4.491 1.42		-								
Sampled Water (th) TOC (ft) (ft) (C) (ms) (mg/l) 16-Nov-11 29.14 7064.01 7034.87 10.87 4.326 2.17 16-Nov-11 29.14 7064.01 7034.87 10.87 4.326 2.17 16-Nov-12 29.07 7063.02 7036.33 12.36 4.760 1.72 06-Apt-09 27.58 7063.72 7035.38 11.87 4.599 2.06 10-Sep-09 27.58 7063.72 7035.60 13.09 6.337 0.81 10-Sep-09 28.34 7063.72 7035.88 11.65 3.812 2.78 11-Jan-11 28.37 7063.72 7035.88 11.50 4.748 1.14 11-Jan-11 28.72 7063.72 7035.88 11.65 4.759 2.78 11-Jan-11 28.72 7063.72 7034.66 11.65 4.759 2.78 11-Jan-12 29.21 7063.72 7034.50 11.90 4.759 2.78 <th>Well ID</th> <th>Date</th> <th>Depth to</th> <th>Surveyed</th> <th>GW Elev.</th> <th>Temperature</th> <th>Conductivity</th> <th>00</th> <th></th> <th>ORP</th>	Well ID	Date	Depth to	Surveyed	GW Elev.	Temperature	Conductivity	00		ORP
16-Nov-11 29.14 7064.01 7034.87 10.87 4.326 2.17 21-Feb-12 29.07 7064.01 7036.33 11.36 4.481 1.01 05-Mar-09 27.39 7063.72 7036.33 12.36 4.760 1.72 10-Sep-09 28.12 7063.72 7035.44 11.87 4.599 2.081 10-Sep-09 28.12 7063.72 7035.38 11.65 3.812 2.78 10-Sep-09 28.12 7063.72 7035.08 11.65 3.812 2.78 11-Jan-11 28.34 7063.72 7035.08 11.65 3.812 2.78 12-Jan-11 28.64 7063.72 7035.08 11.65 4.748 1.14 12-May-11 28.64 7063.72 7034.62 11.80 4.756 2.58 15-Jan-10 28.64 7063.72 7034.62 11.80 4.756 2.58 16-Nov-1 29.25 7063.72 7034.56 11.80 4.755 1.02 <th></th> <th>Sampled</th> <th>Water (ft)</th> <th>TOC (ft)</th> <th>(ft)</th> <th>(c)</th> <th>(mS)</th> <th>(mg/L)</th> <th>рН</th> <th>(mV)</th>		Sampled	Water (ft)	TOC (ft)	(ft)	(c)	(mS)	(mg/L)	рН	(mV)
21-Feb-12 29.07 7064.01 7034.94 11.36 4.481 1.01 05-Mar-09 27.39 7063.72 7036.33 12.36 4.760 1.72 06-Apr-09 27.58 7063.72 7036.34 11.87 4.599 2.06 10-Sep-09 28.34 7063.72 7035.60 13.09 6.337 0.81 15-Jan-11 28.34 7063.72 7035.00 11.90 4.748 1.14 15-Jan-11 28.72 7063.72 7035.33 13.11 4.576 2.58 12-May-11 28.72 7063.72 7035.33 13.11 4.576 2.58 12-May-11 28.73 7063.72 7034.62 11.80 4.759 3.98 12-May-11 29.10 7063.72 7034.62 11.80 4.755 2.15 10-Sep-09 28.24 7064.79 7034.50 10.27 4.927 1.24 11-Ian-10 29.10 7064.79 7035.52 11.99 4.786 3.89 <th>MW-3</th> <th>16-Nov-11</th> <th>29.14</th> <th>7064.01</th> <th>7034.87</th> <th>10.87</th> <th>4.326</th> <th>2.17</th> <th>6.53</th> <th>-105.7</th>	MW-3	16-Nov-11	29.14	7064.01	7034.87	10.87	4.326	2.17	6.53	-105.7
05-Mar-09 27.39 7063.72 7036.33 12.36 4.760 1.72 06-Apr-09 27.38 7063.72 7036.14 11.87 4.599 2.06 10-Sep-09 28.12 7063.72 7035.60 13.09 6.337 0.81 15-Jan-11 28.34 7063.72 7035.08 11.65 3.812 2.78 15-Jan-11 28.72 7063.72 7035.08 11.90 4.748 1.14 12-May-11 28.73 7063.72 7035.33 13.11 4.576 2.58 12-May-11 28.73 7063.72 7034.62 13.89 4.759 3.98 12-May-11 29.10 7063.72 7034.62 13.89 4.759 3.98 16-Nov-11 29.26 7063.72 7034.62 13.89 4.759 3.98 16-Nov-11 29.27 7064.79 7034.50 11.20 4.725 1.22 16-Nov-11 29.10 7064.79 7035.52 12.40 4.28 1.24 <th>MW-3</th> <th>21-Feb-12</th> <th>29.07</th> <th>7064.01</th> <th>7034.94</th> <th>11.36</th> <th>4.481</th> <th>1.01</th> <th>7.09</th> <th>-118.0</th>	MW-3	21-Feb-12	29.07	7064.01	7034.94	11.36	4.481	1.01	7.09	-118.0
05-Mar-09 27.39 7063.72 7036.33 12.36 4.760 1.72 10-Sep-09 27.58 7063.72 7036.14 11.87 4.599 2.06 10-Sep-09 28.12 7063.72 7035.60 13.09 6.337 0.81 15-dan-10 28.34 7063.72 7035.38 11.65 3.812 2.78 15-dan-10 28.34 7063.72 7035.03 11.90 4.748 1.14 12-May-11 28.39 7063.72 7035.33 13.11 4.756 2.58 12-May-11 28.39 7063.72 7034.62 13.89 4.759 3.98 12-May-11 29.10 7063.72 7034.62 10.27 4.927 1.14 12-May-11 29.10 7063.72 7034.60 10.27 4.927 1.25 16-Nov-11 29.22 7063.72 7034.50 11.39 4.755 1.24 10-Sep-09 28.87 7064.79 7035.62 12.78 7.785 1.24 <th></th>										
06-Apr-09 27.58 7063.72 7036.14 11.87 4.599 2.06 10-Sep-09 28.12 7063.72 7035.60 13.09 6.337 0.81 15-Jan-10 28.34 7063.72 7035.60 13.09 6.337 0.81 15-Jan-10 28.34 7063.72 7035.83 11.65 4.491 1.42 12-Jan-11 28.39 7063.72 7035.00 11.90 4.748 1.14 12-May-11 28.39 7063.72 7034.62 13.89 4.756 2.58 12-May-11 29.10 7063.72 7034.62 13.89 4.755 3.98 12-May-12 29.26 7063.72 7034.62 13.89 4.755 2.18 11-Nov-11 29.26 7063.72 7034.62 11.80 6.08 3.89 10-Sep-09 28.24 7064.79 7034.50 11.19 4.755 1.24 11-Jan-10 29.10 7064.79 7035.69 11.93 5.038 2.74 <th>MW-4</th> <th>05-Mar-09</th> <th>27.39</th> <th>7063.72</th> <th>7036.33</th> <th>12.36</th> <th>4.760</th> <th>1.72</th> <th>6.58</th> <th>-29.2</th>	MW-4	05-Mar-09	27.39	7063.72	7036.33	12.36	4.760	1.72	6.58	-29.2
10-Sep-09 28.12 7063.72 7035.60 13.09 6.337 0.81 15-Jan-10 28.34 7063.72 7035.38 11.65 3.812 2.78 15-Jan-11 28.64 7063.72 7035.08 12.52 4.491 1.42 21-Jan-11 28.72 7063.72 7035.00 11.90 4.748 1.14 12-Aug-11 28.39 7063.72 7035.33 13.11 4.576 2.58 12-Aug-11 28.39 7063.72 7034.62 13.89 4.759 3.98 16-Nov-11 29.10 7063.72 7034.60 10.27 4.927 1.02 16-Nar-09 28.24 7064.79 7034.50 10.27 4.927 1.02 10-Sep-09 28.87 7064.79 7035.52 11.19 4.288 1.24 11-Jan-10 29.10 7064.79 7035.32 11.93 4.288 1.34 12-Jan-11 29.47 7064.79 7035.32 12.40 4.957 2.44 <th>MW-4</th> <th>06-Apr-09</th> <th>27.58</th> <th>7063.72</th> <th>7036.14</th> <th>11.87</th> <th>4.599</th> <th>2.06</th> <th>6.75</th> <th>18.0</th>	MW-4	06-Apr-09	27.58	7063.72	7036.14	11.87	4.599	2.06	6.75	18.0
15-Jan-10 28.34 7063.72 7035.38 11.65 3.812 2.78 15-Oct-10 28.64 7063.72 7035.08 12.52 4.491 1.42 21-Jan-11 28.72 7063.72 7035.00 11.90 4.748 1.14 12-May-11 28.39 7063.72 7035.33 13.11 4.576 2.58 12-May-11 29.10 7063.72 7034.62 13.89 4.759 3.98 15-Aug-11 29.26 7063.72 7034.62 13.89 4.759 3.98 16-Nov-11 29.26 7063.72 7034.62 11.80 6.088 3.89 16-Nov-12 29.26 7063.72 7034.50 10.27 4.927 1.02 16-Nov-13 29.27 7064.79 7035.52 11.80 6.088 3.89 16-Nov-14 29.38 7064.79 7035.62 12.40 4.957 2.44 12-May-11 29.47 7064.79 7035.62 12.40 4.957 2.44 <th>MW-4</th> <th>10-Sep-09</th> <th>28.12</th> <th>7063.72</th> <th>7035.60</th> <th>13.09</th> <th>6.337</th> <th>0.81</th> <th>86.9</th> <th>54.6</th>	MW-4	10-Sep-09	28.12	7063.72	7035.60	13.09	6.337	0.81	86.9	54.6
15-Oct-10 28.64 7063.72 7035.08 12.52 4.491 1.42 21-Jan-11 28.72 7063.72 7035.00 11.90 4.748 1.14 12-May-11 28.39 7063.72 7035.33 13.11 4.576 2.58 12-Aug-11 29.10 7063.72 7034.62 13.89 4.759 3.98 16-Nov-11 29.26 7063.72 7034.60 11.66 4.725 2.15 21-Feb-12 29.22 7063.72 7034.50 10.27 4.927 1.02 21-Feb-12 29.22 7064.79 7036.55 11.80 6.088 3.89 10-Sep-09 28.87 7064.79 7035.92 12.78 7.785 1.24 15-Jan-10 29.10 7064.79 7035.92 11.19 4.288 1.93 15-Jan-11 29.47 7064.79 7035.82 11.93 5.038 2.71 15-May-11 29.14 7064.79 7034.95 13.73 4.968 3.87 <th>MW-4</th> <th>15-Jan-10</th> <th>28.34</th> <th>7063.72</th> <th>7035.38</th> <th>11.65</th> <th>3.812</th> <th>2.78</th> <th>7.20</th> <th>-125.1</th>	MW-4	15-Jan-10	28.34	7063.72	7035.38	11.65	3.812	2.78	7.20	-125.1
121-Jan-11 28.72 7063.72 7035.00 11.90 4.748 1.14 12-May-11 28.39 7063.72 7035.33 13.11 4.576 2.58 12-May-11 29.10 7063.72 7034.62 13.89 4.759 3.98 16-Nov-11 29.26 7063.72 7034.60 11.66 4.725 2.15 21-Feb-12 29.26 7063.72 7034.50 10.27 4.927 1.02 21-Feb-12 29.26 7063.72 7034.50 10.27 4.927 1.02 21-Feb-12 29.26 7064.79 7035.92 11.80 6.088 3.89 10-Sep-09 28.87 7064.79 7035.92 11.19 4.785 1.24 11-Aort-10 29.18 7064.79 7035.62 11.94 4.725 1.24 21-Jan-11 29.47 7064.79 7035.62 11.94 4.957 2.44 11-Aug-11 29.47 7064.79 7034.95 13.73 4.968 3.87<	MW-4	15-Oct-10	28.64	7063.72	7035.08	12.52	4.491	1.42	7.13	42.8
12-May-11 28.39 7063.72 7035.33 13.11 4.576 2.58 12-Aug-11 29.10 7063.72 7034.62 13.89 4.759 3.98 16-Nov-11 29.26 7063.72 7034.60 11.66 4.725 2.15 21-Feb-12 29.22 7063.72 7034.50 10.27 4.927 1.02 10-Sep-09 28.24 7064.79 7035.92 12.78 7.785 1.22 10-Sep-09 28.87 7064.79 7035.62 11.19 4.788 1.93 14-Oct-10 29.10 7064.79 7035.62 11.34 4.725 1.24 12-May-11 29.47 7064.79 7035.62 11.93 5.038 2.71 12-May-11 29.47 7064.79 7035.62 11.93 5.038 2.74 12-May-11 29.47 7064.79 7035.62 12.40 4.957 2.44 12-May-11 29.84 7064.79 7034.83 NM NM NM <	MW-4	21-Jan-11	28.72	7063.72	7035.00	11.90	4.748	1.14	7.19	5.4
12-Aug-11 29.10 7063.72 7034.62 13.89 4.759 3.98 16-Nov-11 29.26 7063.72 7034.46 11.66 4.725 2.15 21-Feb-12 29.22 7063.72 7034.50 10.27 4.927 1.02 10-Sep-09 28.24 7064.79 7035.92 11.80 6.088 3.89 10-Sep-09 28.87 7064.79 7035.92 12.78 7.785 1.22 11-Sep-09 28.87 7064.79 7035.69 11.19 4.288 1.93 14-Oct-10 29.10 7064.79 7035.41 12.34 4.725 1.24 12-May-11 29.47 7064.79 7035.32 11.93 5.038 2.71 12-May-11 29.47 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.95 11.16 4.814 4.47 16-Nov-11 30.00 7064.79 7034.83 NM NM NM <	MW-4	12-May-11	28.39	7063.72	7035.33	13.11	4.576	2.58	7.29	-25.8
16-Nov-11 29.26 7063.72 7034.46 11.66 4.725 2.15 21-Feb-12 29.22 7063.72 7034.50 10.27 4.927 1.02 05-Mar-09 28.24 7064.79 7035.55 11.80 6.088 3.89 10-Sep-09 28.87 7064.79 7035.92 12.78 7.785 1.22 15-Jan-10 29.10 7064.79 7035.41 12.34 4.288 1.93 14-Oct-10 29.38 7064.79 7035.41 12.34 4.725 1.24 21-Jan-11 29.47 7064.79 7035.32 11.93 5.038 2.71 12-May-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.83 NM NM NM 16-Nov-12 29.96 7064.79 7034.83 NM NM NM 10-Sep-09 13.90 7049.54 7035.87 11.85 6.287 1.15	MW-4	12-Aug-11	29.10	7063.72	7034.62	13.89	4.759	3.98	6.85	74.9
21-Feb-12 29.22 7063.72 7034.50 10.27 4.927 1.02 05-Mar-09 28.24 7064.79 7036.55 11.80 6.088 3.89 10-Sep-09 28.87 7064.79 7035.92 12.78 7.785 1.22 15-Jan-10 29.10 7064.79 7035.92 11.19 4.288 1.93 14-Oct-10 29.38 7064.79 7035.41 12.34 4.725 1.24 21-Jan-11 29.47 7064.79 7035.32 11.93 5.038 2.71 12-May-11 29.47 7064.79 7035.62 12.40 4.958 3.87 12-Aug-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.83 NM NM NM 16-Nov-12 29.96 7064.79 7034.83 NM NM NM 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15	MW-4	16-Nov-11	29.26	7063.72	7034.46	11.66	4.725	2.15	7.11	153.0
05-Mar-09 28.24 7064.79 7036.55 11.80 6.088 3.89 10-Sep-09 28.87 7064.79 7035.92 12.78 7.785 1.22 15-Jan-10 29.10 7064.79 7035.69 11.19 4.288 1.93 14-Oct-10 29.38 7064.79 7035.41 12.34 4.725 1.24 21-Jan-11 29.47 7064.79 7035.62 12.40 4.957 2.71 12-May-11 29.47 7064.79 7035.62 12.40 4.957 2.44 12-Aug-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.83 NM NM NM 21-Feb-12 29.96 7064.79 7034.83 NM NM NM 05-Mar-09 12.67 7049.54 7035.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.52 10.81 3.789 2.46	MW-4	21-Feb-12	29.22	7063.72	7034.50	10.27	4.927	1.02	7.02	-11.3
05-Mar-09 28.24 7064.79 7036.55 11.80 6.088 3.89 10-Sep-09 28.87 7064.79 7035.92 12.78 7.785 1.22 15-Jan-10 29.10 7064.79 7035.69 11.19 4.288 1.93 15-Jan-11 29.38 7064.79 7035.41 12.34 4.725 1.24 12-May-11 29.47 7064.79 7035.62 12.40 4.957 2.44 12-May-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.83 NM NM NM 16-Nov-12 29.96 7064.79 7034.83 NM NM NM 10-Sep-09 12.67 7049.54 7036.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.52 10.81 3.789 2.46										
10-Sep-09 28.87 7064.79 7035.92 12.78 7.785 1.22 15-Jan-10 29.10 7064.79 7035.69 11.19 4.288 1.93 14-Oct-10 29.38 7064.79 7035.41 12.34 4.725 1.24 21-Jan-11 29.47 7064.79 7035.62 12.40 4.957 2.44 12-May-11 29.17 7064.79 7034.95 13.73 4.968 3.87 12-May-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.83 NM NM NM 16-Nov-12 29.96 7064.79 7034.83 NM NM NM 05-Mar-09 12.67 7049.54 7035.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.52 10.81 3.789 2.46	MW-5	05-Mar-09	28.24	7064.79	7036.55	11.80	6.088	3.89	6.61	-17.3
15-Jan-10 29.10 7064.79 7035.69 11.19 4.288 1.93 14-Oct-10 29.38 7064.79 7035.41 12.34 4.725 1.24 21-Jan-11 29.47 7064.79 7035.62 11.93 5.038 2.71 12-May-11 29.17 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.83 NM NM NM 16-Nar-09 12.6b-12 29.96 7064.79 7034.83 NM NM NM 10-Sep-09 12.67 7049.54 7035.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15 15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46	MW-5	10-Sep-09	28.87	7064.79	7035.92	12.78	7.785	1.22	7.09	60.5
14-Oct-10 29.38 7064.79 7035.41 12.34 4.725 1.24 21-Jan-11 29.47 7064.79 7035.32 11.93 5.038 2.71 12-May-11 29.17 7064.79 7034.95 12.40 4.957 2.44 12-Aug-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.83 NM NM NM 21-Feb-12 29.96 7064.79 7034.83 NM NM NM 05-Mar-09 12.67 7049.54 7035.64 11.85 6.287 1.15 10-Sep-09 13.90 7049.54 7035.52 10.81 3.789 2.46	MW-5	15-Jan-10	29.10	7064.79	7035.69	11.19	4.288	1.93	7.27	-85.8
12-Jan-11 29.47 7064.79 7035.32 11.93 5.038 2.71 12-May-11 29.17 7064.79 7035.62 12.40 4.957 2.44 12-Aug-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.79 11.16 4.814 4.47 21-Feb-12 29.96 7064.79 7034.83 NM NM NM 05-Mar-09 12.67 7049.54 7036.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15 15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46	MW-5	14-Oct-10	29.38	7064.79	7035.41	12.34	4.725	1.24	7.23	98.1
12-May-11 29.17 7064.79 7035.62 12.40 4.957 2.44 12-Aug-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.83 NM NM NM 21-Feb-12 29.96 7064.79 7034.83 NM NM NM 05-Mar-09 12.67 7049.54 7036.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15 15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46	MW-5	21-Jan-11	29.47	7064.79	7035.32	11.93	5.038	2.71	7.31	103.9
12-Aug-11 29.84 7064.79 7034.95 13.73 4.968 3.87 16-Nov-11 30.00 7064.79 7034.79 11.16 4.814 4.47 21-Feb-12 29.96 7064.79 7034.83 NM NM NM 05-Mar-09 12.67 7049.54 7036.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15 15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46	MW-5	12-May-11	29.17	7064.79	7035.62	12.40	4.957	2.44	7.42	-44.4
16-Nov-11 30.00 7064.79 7034.79 11.16 4.814 4.47 21-Feb-12 29.96 7064.79 7034.83 NM NM NM 05-Mar-09 12.67 7049.54 7036.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15 15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46	MW-5	12-Aug-11	29.84	7064.79	7034.95	13.73	4.968	3.87	6.83	189.8
21-Feb-12 29.96 7064.79 7034.83 NM NM NM NM 05-Mar-09 12.67 7049.54 7036.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15 15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46	MW-5	16-Nov-11	30.00	7064.79	7034.79	11.16	4.814	4.47	7.18	290.4
05-Mar-09 12.67 7049.54 7036.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15 15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46	MW-5	21-Feb-12	29.96	7064.79	7034.83	NM	NM	NM	NM	NM
05-Mar-09 12.67 7049.54 7036.87 9.21 4.967 4.30 10-Sep-09 13.90 7049.54 7035.64 11.85 6.287 1.15 15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46										
10-Sep-0913.907049.547035.6411.856.2871.1515-Jan-1014.027049.547035.5210.813.7892.46	MW-6	05-Mar-09	12.67	7049.54	7036.87	9.21	4.967	4.30	6.53	4.6
15-Jan-10 14.02 7049.54 7035.52 10.81 3.789 2.46	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

Animas Environmental Services, LLC

Labs 022112

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April 19, 2012

Periodic Progress Report

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 Depth to Surveyed GW Elev. Temperature Temperature (Conductivity (Th) (C) (mS) (mg(l) (mg(l) (mw-6) (15-Oct-10) (14.39) TOC (ft) (ft) (ft) (ft) (C) (mS) (mg(l) (mg(l) (mw-6) (15-Oct-10) (14.39) TOG (4.39) TOG (4										
Sampled Water (ft) TOC (ft) (ft) (C) (ms/l) (mg/l) 15-Oct-10 14.39 7049.54 7035.15 12.45 4.353 1.40 12-May-11 14.42 7049.54 7035.12 11.59 4.316 3.10 12-May-11 14.90 7049.54 7035.54 10.69 4.329 1.89 12-May-11 14.90 7049.54 7034.64 NM NM NM 12-May-11 14.90 7049.54 7034.64 NM NM NM 10-Sep-09 26.34 7062.80 7036.46 11.40 4.951 2.74 10-Sep-09 27.23 7062.80 7036.46 11.40 4.951 2.17 112-May-11 27.82 7062.80 7035.36 11.20 4.047 1.24 12-May-11 27.84 7062.80 7035.34 10.79 4.047 1.24 12-May-11 27.84 7062.80 7034.49 NM NM NM <trr< th=""><th>WellID</th><th>Date</th><th>Depth to</th><th>Surveyed</th><th>GW Elev.</th><th>Temperature</th><th>Conductivity</th><th>00</th><th></th><th>ORP</th></trr<>	WellID	Date	Depth to	Surveyed	GW Elev.	Temperature	Conductivity	00		ORP
15-Oct-10 14.39 7049.54 7035.15 12.45 4.353 1.40 21-Jan-11 14.42 7049.54 7035.12 11.59 4.516 3.10 12-May-11 14.40 7049.54 7035.51 11.59 4.349 1.89 12-May-11 14.00 7049.54 7034.61 11.99 4.349 1.89 12-May-11 14.99 7049.54 7034.61 11.99 4.328 2.74 16-Nov-11 14.99 7049.54 7034.65 11.09 4.38 2.74 16-Nov-12 14.90 7049.54 7034.65 11.40 4.388 2.74 16-Nov-13 16.00 703.64 NM NM NM NM 10-Sep-09 27.23 7062.80 7035.64 11.02 3.820 2.27 11-Jan-11 27.82 7062.80 7035.94 10.79 4.035 1.24 112-May-11 27.82 7062.80 7034.56 11.24 4.035 2.12		Sampled	Water (ft)	TOC (ft)	(ft)	(c)	(mS)	(mg/L)	Н	(mV)
21-Jan-11 14.42 7049.54 7035.12 11.59 4.516 3.10 12-May-11 14.00 7049.54 7035.54 10.69 4.349 1.89 12-May-11 14.00 7049.54 7035.54 10.69 4.349 1.89 12-Aug-11 14.99 7049.54 7034.55 12.01 4.398 2.74 16-Nov-11 14.90 7049.54 7034.64 NM NM NM 16-Nar-09 26.34 7062.80 7035.66 11.40 4.951 2.74 10-Sep-09 27.23 7062.80 7035.36 11.02 3.820 2.92 15-Jan-10 27.44 7062.80 7035.36 11.02 3.820 2.92 15-Jan-11 27.82 7062.80 7035.34 12.79 4.047 1.24 16-Nay-11 27.82 7062.80 7035.34 10.79 4.035 2.92 17-Aug-11 28.33 7062.80 7034.49 NM NM NM	MW-6	15-Oct-10	14.39	7049.54	7035.15	12.45	4.353	1.40	7.24	20.7
12-May-11 14,00 7049.54 7035.54 10.69 4.349 1.89 12-Aug-11 14.93 7049.54 7034.61 11.99 4.492 4.24 16-Nov-11 14.99 7049.54 7034.55 12.01 4.388 2.74 16-Nov-11 14.99 7049.54 7034.64 NM NM NM 16-Nar-09 26.34 7062.80 7034.64 11.40 4.951 2.17 10-Sep-09 27.23 7062.80 7035.64 11.02 3.820 2.92 11-Jan-10 27.44 7062.80 7035.94 12.79 4.047 1.24 12-Jan-11 27.84 7062.80 7035.94 12.79 4.047 1.24 12-Jan-11 27.85 7062.80 7035.94 10.79 4.037 1.24 12-Jan-11 28.34 7062.80 7034.98 10.79 4.037 2.75 12-Aug-11 28.34 7062.80 7034.99 NM NM NM	MW-6	21-Jan-11	14.42	7049.54	7035.12	11.59	4.516	3.10	7.32	-37.3
12-Aug-11 14.93 7049.54 7034.61 11.99 4.492 4.24 16-Nov-11 14.99 7049.54 7034.55 12.01 4.398 2.74 16-Nov-11 14.90 7049.54 7034.64 NM NM NM 16-Feb-12 14.90 7049.54 7034.64 11.40 4.951 2.74 10-Sep-09 26.34 7062.80 7035.36 11.02 6.288 1.03 10-Sep-09 27.23 7062.80 7035.34 12.61 6.288 1.03 14-Oct-10 27.44 7062.80 7035.34 12.79 4.047 1.24 11-Amy-11 27.46 7062.80 7034.98 10.79 4.047 1.24 11-Aug-11 27.46 7062.80 7034.98 10.79 4.047 1.24 11-Aug-11 28.81 7062.80 7034.49 NM NM NM 11-Aug-11 28.38 7062.80 7034.49 NM NM NM	MW-6	12-May-11	14.00	7049.54	7035.54	10.69	4.349	1.89	7.47	-24.9
16-Nov-11 14.99 7049.54 7034.55 12.01 4.398 2.74 21-Feb-12 14.90 7049.54 7034.64 NM NM NM 21-Feb-12 14.90 7049.54 7034.64 11.40 4.3951 2.74 10-Feb-09 26.34 7062.80 7035.64 11.40 4.951 2.17 15-Jan-10 27.43 7062.80 7035.64 11.02 3.820 2.92 15-Jan-11 27.45 7062.80 7035.04 12.79 4.047 1.24 12-Aug-11 27.46 7062.80 7034.98 10.79 4.047 1.24 12-Aug-11 28.24 7062.80 7034.98 10.79 4.047 1.24 16-Nov-11 28.38 7062.80 7034.49 NM NM NM 16-Nov-11 28.38 7062.80 7034.49 NM NM NM 16-Nov-11 28.34 7062.80 7034.49 NM NM NM <	MW-6	12-Aug-11	14.93	7049.54	7034.61	11.99	4.492	4.24	7.56	0.2
21-Feb-12 14.90 7049.54 7034.64 NM NM NM 06-Mar-09 26.34 7062.80 7036.46 11.40 4.951 2.17 10-Sep-09 27.23 7062.80 7035.36 11.02 3.820 2.92 15-Jan-10 27.44 7062.80 7035.36 11.02 3.820 2.92 14-Oct-10 27.76 7062.80 7035.34 12.79 4.047 1.24 12-May-11 27.82 7062.80 7035.34 12.79 4.047 1.24 12-May-11 27.82 7062.80 7035.34 12.80 4.118 1.73 12-May-11 27.82 7062.80 7034.42 11.24 4.077 2.90 16-Nov-11 28.34 7062.80 7034.49 NM NM NM 16-Nov-12 28.31 7063.27 7034.49 NM A.731 2.14 16-Nov-11 28.39 7063.27 7034.88 11.43 2.891 1.24 <t< th=""><th>MW-6</th><th>16-Nov-11</th><th>14.99</th><th>7049.54</th><th>7034.55</th><th>12.01</th><th>4.398</th><th>2.74</th><th>6.46</th><th>182.1</th></t<>	MW-6	16-Nov-11	14.99	7049.54	7034.55	12.01	4.398	2.74	6.46	182.1
06-Mar-09 26.34 7062.80 7036.46 11.40 4.951 2.17 10-Sep-09 27.23 7062.80 7035.57 12.61 6.288 1.03 15-Jan-10 27.44 7062.80 7035.36 11.02 3.820 2.92 14-Oct-10 27.44 7062.80 7035.04 12.79 4.047 1.24 21-Jan-11 27.86 7062.80 7034.98 10.79 4.047 1.24 12-May-11 27.86 7062.80 7034.98 10.79 4.047 1.24 15-May-11 27.86 7062.80 7034.96 11.24 4.077 2.9 16-Nov-11 28.34 7062.80 7034.49 N/M N/M N/M 16-May-12 28.31 7062.80 7034.49 N/M N/M N/M 10-Sep-09 27.49 7063.27 7035.78 11.91 4.731 1.21 12-Jan-10 28.70 7063.27 7034.88 11.43 2.891 1.8	MW-6	21-Feb-12	14.90	7049.54	7034.64	NM	NM	NM	NM	ΝN
06-Mar-09 26.34 7062.80 7036.46 11.40 4,951 2.17 10-Sep-09 27.23 7062.80 7035.57 12.61 6.288 1.03 15-Jan-10 27.44 7062.80 7035.36 11.02 3.820 2.92 14-Oct-10 27.76 7062.80 7035.04 12.79 4.047 1.24 21-Jan-11 27.82 7062.80 7034.98 10.79 4.047 1.24 12-May-11 27.86 7062.80 7034.92 10.79 4.118 1.73 12-May-11 28.24 7062.80 7034.42 11.24 4.077 2.75 16-Nov-11 28.38 7062.80 7034.42 11.24 4.077 2.75 16-Nov-11 28.31 7062.80 7034.49 NM NM NM 10-Sep-09 28.14 7062.80 7034.88 11.91 4.077 1.26 15-Jan-10 28.39 7063.27 7034.88 11.30 4.017 1.21 <										
10-Sep-09 27.23 7062.80 7035.57 12.61 6.288 1.03 15-Jan-10 27.44 7062.80 7035.36 11.02 3.820 2.92 14-Oct-10 27.76 7062.80 7035.04 12.79 4.047 1.24 21-Jan-11 27.82 7062.80 7034.98 10.79 4.047 1.24 12-May-11 27.86 7062.80 7034.98 10.79 4.118 1.73 12-May-11 28.24 7062.80 7034.42 11.24 4.077 2.90 16-Nov-11 28.38 7062.80 7034.49 NM NM NM 16-Nov-12 28.31 7062.80 7034.49 NM NM NM 16-Nov-13 28.34 7062.80 7034.49 NM NM NM 10-Sep-09 28.14 7063.27 7034.88 11.43 2.891 1.86 15-Jan-10 28.39 7063.27 7034.88 11.43 2.891 1.60	MW-7	06-Mar-09	26.34	7062.80	7036.46	11.40	4.951	2.17	6.50	-3.3
15-Jan-10 27.44 7062.80 7035.36 11.02 3.820 2.92 14-Oct-10 27.76 7062.80 7035.04 12.79 4.047 1.24 12-Jan-11 27.82 7062.80 7034.98 10.79 4.205 2.22 12-May-11 27.86 7062.80 7034.56 13.88 4.119 2.90 12-May-11 28.34 7062.80 7034.42 11.24 4.077 2.75 16-Nov-11 28.38 7062.80 7034.49 NM NM NM 16-Nov-11 28.38 7062.80 7034.49 NM NM NM 16-Nov-12 28.31 7062.80 7034.49 NM NM NM 10-Sep-02 27.49 7062.80 7034.49 NM NM NM 10-Sep-09 27.49 7063.27 7035.78 11.91 4.731 1.12 12-Jan-10 28.30 7063.27 7034.75 12.80 4.002 1.55 <t< th=""><th>MW-7</th><th>10-Sep-09</th><th>27.23</th><th>7062.80</th><th>7035.57</th><th>12.61</th><th>6.288</th><th>1.03</th><th>7.05</th><th>51.0</th></t<>	MW-7	10-Sep-09	27.23	7062.80	7035.57	12.61	6.288	1.03	7.05	51.0
14-Oct-10 27.76 7062.80 7035.04 12.79 4.047 1.24 21-Jan-11 27.82 7062.80 7034.98 10.79 4.205 2.22 12-May-11 27.46 7062.80 7034.34 12.80 4.118 1.73 12-Mug-11 28.34 7062.80 7034.56 13.88 4.119 2.90 16-Nov-11 28.38 7062.80 7034.49 NM NM NM 16-Nov-11 28.31 7062.80 7034.49 NM NM NM 10-Sep-09 27.49 7063.27 7034.89 11.91 4.731 2.14 10-Sep-09 28.14 7063.27 7034.88 11.43 2.891 1.86 15-Jan-10 28.30 7063.27 7034.88 11.43 2.891 1.86 12-May-11 28.80 7063.27 7034.89 13.46 4.03 1.55 12-May-11 28.52 7063.27 7034.08 13.36 4.194 3.45	MW-7	15-Jan-10	27.44	7062.80	7035.36	11.02	3.820	2.92	7.27	-66.3
21-Jan-11 27.82 7062.80 7034.98 10.79 4.205 2.22 12-May-11 27.46 7062.80 7034.56 13.88 4.119 2.90 12-Aug-11 28.34 7062.80 7034.49 11.24 4.077 2.90 16-Nov-11 28.38 7062.80 7034.49 NM NM NM 16-Nov-11 28.31 7062.80 7034.49 NM NM NM 16-Nov-11 28.31 7062.80 7034.49 11.24 4.077 2.75 10-Sep-09 27.49 7063.27 7035.78 11.91 4.731 2.14 10-Sep-09 28.14 7063.27 7034.88 11.43 2.891 1.86 15-Jan-10 28.39 7063.27 7034.47 12.80 4.017 1.21 12-May-11 28.80 7063.27 7034.57 13.16 3.966 1.60 12-May-11 29.19 7063.27 7034.08 13.16 4.194 3.45	MW-7	14-Oct-10	27.76	7062.80	7035.04	12.79	4.047	1.24	7.19	9.89
12-May-11 27.46 7062.80 7035.34 12.80 4.118 1.73 12-Aug-11 28.24 7062.80 7034.56 13.88 4.119 2.90 16-Nov-11 28.38 7062.80 7034.42 11.24 4.077 2.75 16-Nov-11 28.38 7062.80 7034.49 NM NM NM 06-Mar-09 27.49 7063.27 7035.78 11.91 4.731 2.14 10-Sep-09 28.14 7063.27 7034.88 11.43 2.891 1.86 15-Jan-10 28.39 7063.27 7034.88 11.43 2.891 1.86 15-Oct-10 28.70 7063.27 7034.87 12.80 4.017 1.21 12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 12-Aug-11 29.19 7063.27 7034.08 13.36 4.194 3.45 16-Nov-11 29.35 7063.27 7033.96 11.49 4.500 0.88 <	MW-7	21-Jan-11	27.82	7062.80	7034.98	10.79	4.205	2.22	7.37	42.0
12-Aug-11 28.24 7062.80 7034.56 13.88 4.119 2.90 16-Nov-11 28.38 7062.80 7034.42 11.24 4.077 2.75 21-Feb-12 28.31 7062.80 7034.49 NM NM NM 06-Mar-09 27.49 7063.27 7035.78 11.91 4.731 2.14 10-Sep-09 28.14 7063.27 7034.88 11.43 2.891 1.86 15-Jan-10 28.39 7063.27 7034.88 11.43 2.891 1.86 15-Jan-11 28.80 7063.27 7034.57 12.80 4.017 1.21 12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 12-Aug-11 29.19 7063.27 7034.08 13.16 3.966 1.60 16-Nov-11 29.35 7063.27 7034.08 11.49 4.194 3.45 16-Nov-11 29.35 7063.27 7033.96 11.49 4.194 3.45 16-Nov-11 29.31 7063.27 7033.96 11.49 4.194 </th <th>MW-7</th> <td>12-May-11</td> <td>27.46</td> <td>7062.80</td> <td>7035.34</td> <td>12.80</td> <td>4.118</td> <td>1.73</td> <td>7.38</td> <td>-70.4</td>	MW-7	12-May-11	27.46	7062.80	7035.34	12.80	4.118	1.73	7.38	-70.4
16-Nov-11 28.38 7062.80 7034.42 11.24 4.077 2.75 21-Feb-12 28.31 7062.80 7034.49 NM NM NM 06-Mar-09 27.49 7063.27 7035.78 11.91 4.731 2.14 10-Sep-09 28.14 7063.27 7034.88 11.43 5.987 1.12 15-Oct-10 28.39 7063.27 7034.88 11.43 2.891 1.86 15-Oct-10 28.70 7063.27 7034.57 12.80 4.017 1.21 12-May-11 28.80 7063.27 7034.47 12.30 4.002 1.55 12-Aug-11 29.19 7063.27 7034.08 13.16 3.966 1.60 16-Nov-11 29.35 7063.27 7034.08 13.85 4.194 3.45 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-7	12-Aug-11	28.24	7062.80	7034.56	13.88	4.119	2.90	7.30	112.8
21-Feb-12 28.31 7062.80 7034.49 NM NM NM 06-Mar-09 27.49 7063.27 7035.78 11.91 4.731 2.14 10-Sep-09 28.14 7063.27 7034.88 11.43 5.987 1.12 15-Jan-10 28.39 7063.27 7034.88 11.43 2.891 1.86 15-Jan-11 28.80 7063.27 7034.47 12.30 4.017 1.21 12-May-11 28.80 7063.27 7034.75 13.16 3.966 1.60 12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 16-Nov-11 29.35 7063.27 7033.92 11.49 4.218 2.57 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-7	16-Nov-11	28.38	7062.80	7034.42	11.24	4.077	2.75	6.32	168.0
06-Mar-09 27.49 7063.27 7035.78 11.91 4.731 2.14 10-Sep-09 28.14 7063.27 7035.13 13.53 5.987 1.12 15-Jan-10 28.39 7063.27 7034.88 11.43 2.891 1.86 15-Oct-10 28.70 7063.27 7034.57 12.80 4.017 1.21 21-Jan-11 28.80 7063.27 7034.75 13.16 3.966 1.60 12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 12-Aug-11 29.19 7063.27 7034.08 13.85 4.194 3.45 16-Nov-11 29.35 7063.27 7033.92 11.49 4.218 2.57 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-7	21-Feb-12	28.31	7062.80	7034.49	NM	NM	NM	NM	NM
06-Mar-09 27.49 7063.27 7035.78 11.91 4.731 2.14 10-Sep-09 28.14 7063.27 7035.13 13.53 5.987 1.12 15-Jan-10 28.39 7063.27 7034.88 11.43 2.891 1.86 15-Oct-10 28.70 7063.27 7034.57 12.80 4.017 1.21 21-Jan-11 28.80 7063.27 7034.47 12.30 4.002 1.55 12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 12-Aug-11 29.19 7063.27 7034.08 13.85 4.194 3.45 16-Nov-11 29.35 7063.27 7033.96 11.49 4.218 2.57 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88										
10-Sep-09 28.14 7063.27 7035.13 13.53 5.987 1.12 15-Jan-10 28.39 7063.27 7034.88 11.43 2.891 1.86 21-Jan-11 28.70 7063.27 7034.47 12.80 4.017 1.21 12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 12-May-11 29.19 7063.27 7034.08 13.85 4.194 3.45 16-Nov-11 29.35 7063.27 7033.96 11.49 4.500 0.88 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-8	06-Mar-09	27.49	7063.27	7035.78	11.91	4.731	2.14	6.40	-4.4
15-Jan-10 28.39 7063.27 7034.88 11.43 2.891 1.86 15-Oct-10 28.70 7063.27 7034.57 12.80 4.017 1.21 21-Jan-11 28.80 7063.27 7034.75 13.16 3.966 1.60 12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 12-Aug-11 29.19 7063.27 7034.08 13.85 4.194 3.45 16-Nov-11 29.35 7063.27 7033.96 11.49 4.218 2.57 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-8	10-Sep-09	28.14	7063.27	7035.13	13.53	5.987	1.12	8.51	-93.2
15-Oct-10 28.70 7063.27 7034.57 12.80 4.017 1.21 21-Jan-11 28.80 7063.27 7034.47 12.30 4.002 1.55 12-May-11 28.52 7063.27 7034.08 13.16 3.966 1.60 12-Aug-11 29.19 7063.27 7033.92 11.49 4.194 3.45 16-Nov-11 29.35 7063.27 7033.96 11.49 4.500 0.88 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-8	15-Jan-10	28.39	7063.27	7034.88	11.43	2.891	1.86	89.9	-162.2
21-Jan-11 28.80 7063.27 7034.47 12.30 4.002 1.55 12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 12-Aug-11 29.19 7063.27 7034.08 13.85 4.194 3.45 16-Nov-11 29.35 7063.27 7033.96 11.49 4.218 2.57 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-8	15-0ct-10	28.70	7063.27	7034.57	12.80	4.017	1.21	7.04	-39.1
12-May-11 28.52 7063.27 7034.75 13.16 3.966 1.60 12-Aug-11 29.19 7063.27 7034.08 13.85 4.194 3.45 16-Nov-11 29.35 7063.27 7033.92 11.49 4.218 2.57 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-8	21-Jan-11	28.80	7063.27	7034.47	12.30	4.002	1.55	7.08	-91.2
12-Aug-11 29.19 7063.27 7034.08 13.85 4.194 3.45 16-Nov-11 29.35 7063.27 7033.92 11.49 4.218 2.57 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-8	12-May-11	28.52	7063.27	7034.75	13.16	3.966	1.60	7.16	-121.2
16-Nov-11 29.35 7063.27 7033.92 11.49 4.218 2.57 21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	MW-8	12-Aug-11	29.19	7063.27	7034.08	13.85	4.194	3.45	6.97	-148.3
21-Feb-12 29.31 7063.27 7033.96 12.21 4.500 0.88	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	96.9	-116.0

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Periodic Progress Report

April 19, 2012

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

Well ID	Date	Depth to	Surveyed	GW Elev.	Temperature	Conductivity	8		ORP
	Sampled	Water (ft)	TOC (ft)	(ft)	(c)	(mS)	(mg/L)	Н	(mV)
WW-9	06-Mar-09	27.60	7062.60	7035.00	9.47	5.418	5.12	6:39	-1.8
WW-9	06-Apr-09	27.74	7062.60	7034.86	11.86	5.174	2.24	6.72	25.2
WW-9	10-Sep-09	28.19	7062.60	7034.41	13.10	7.257	98.0	7.03	-129.8
WW-9	15-Jan-10	28.42	7062.60	7034.18	10.89	3.960	2.29	7.13	-187.4
6-WW	15-Oct-10	28.74	7062.60	7033.86	12.85	4.561	1.89	7.17	-74.4
WW-9	21-Jan-11	28.85	7062.60	7033.75	12.67	4.452	1.34	7.16	8.06-
WW-9	12-May-11	28.61	7062.60	7033.99	13.12	4.120	2.31	7.28	-94.1
WW-9	12-Aug-11	29.22	7062.60	7033.38	12.92	4.492	5.42	7.33	-132.7
WW-9	16-Nov-11	29.41	7062.60	7033.19	11.80	4.402	2.67	5.56	-75.1
WW-9	21-Feb-12	29.39	7062.60	7033.21	11.89	4.241	1.37	6.95	-127.0
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	26'9	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	NN
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

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Periodic Progress Report

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

WellID	Date	Depth to	Surveyed	GW Elev.	Temperature	Conductivity	00		ORP
	Sampled	Water (ft)	TOC (ft)	(f)	(c)	(mS)	(mg/L)	Н	(mV)
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	MN	NM	NM	MN	NM
Downgradient									
MW-7*	09-Mar-09	13.09	7051.30	7038.21	8.14	3.441	4.52	6.49	12.8

NOTE:

NM = NOT MEASURED

NA = NOT AVAILABLE

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

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

	Date			Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
Well ID	Jampieu	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical	Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexic		10	750	750	620	NE	NE	NE
New Mexic	l	10	750	730	020	142		
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-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
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
						ļ		
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

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

	Date	· ****		Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
		(μg/L)	(μg/L)	(μg/L)	μg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical	Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexi		10	750	750	620	NE	NE	NE
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-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
WEN								
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-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-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

TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

	Date	:		Ethyl-	Total	<u> </u>		
Well ID	Sampled	Benzene	Toluene	benzene	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 Mexic	o WQCC	10	750	750	620	NE	NE	NE
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-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-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-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
Downgradient								
MW-7*	09-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

NOTE: NS = Not Sampled

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS BMG HWY 537 TRUCK RECEIVING STATION 2009 RELEASE

Rio Arriba County, New Mexico

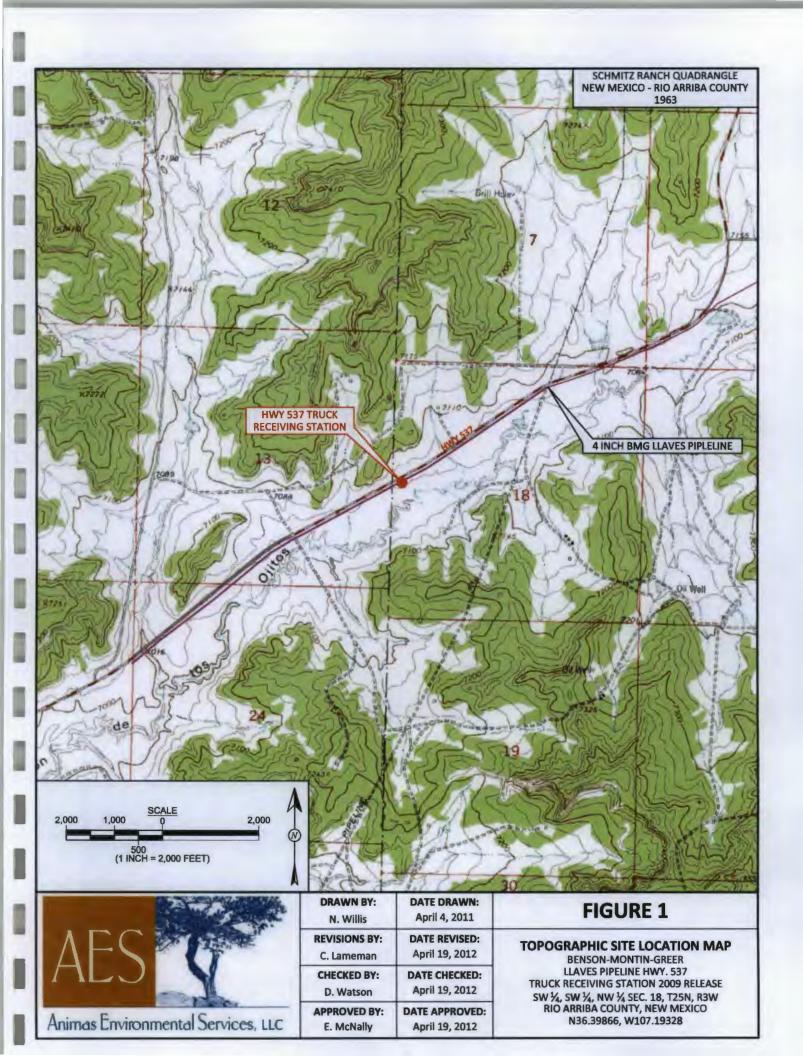
	Date			Ethyl-	Total			
Well ID	Sampled	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical	Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexic	o WQCC	10	<i>750</i>	750	620	NE	NE	NE

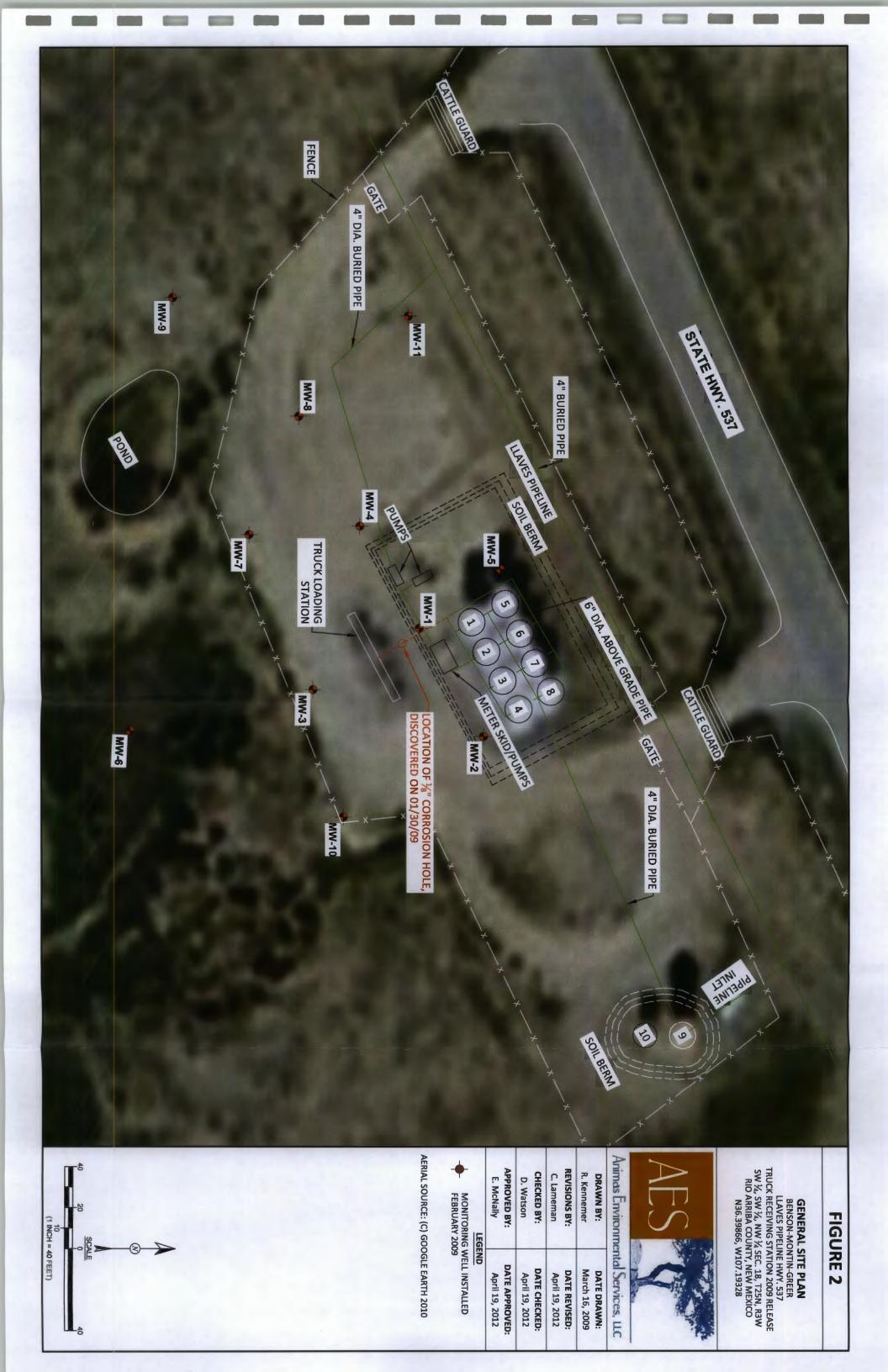
GRO = Gasoline Range Organics

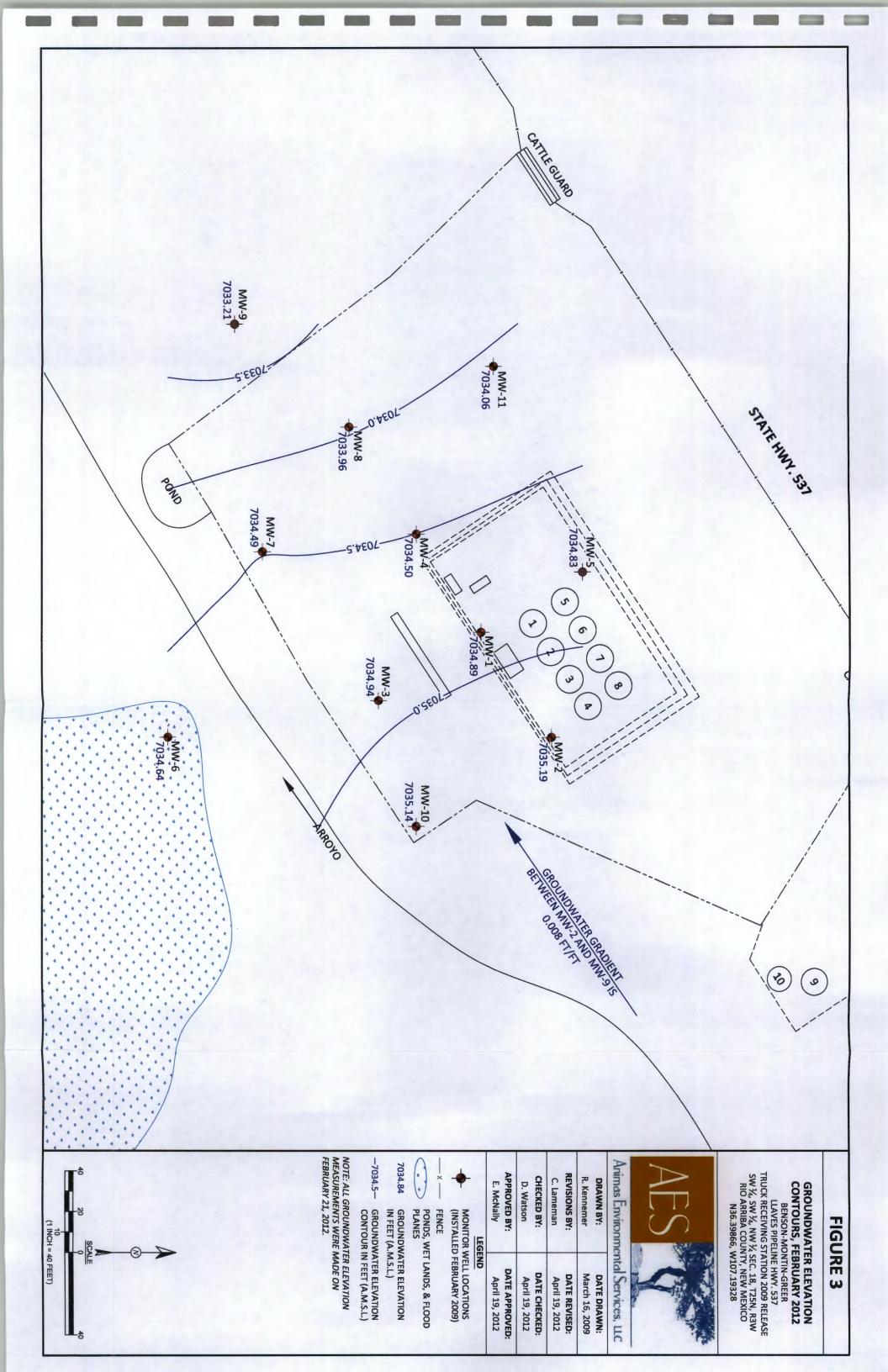
DRO = Diesel Range Organics

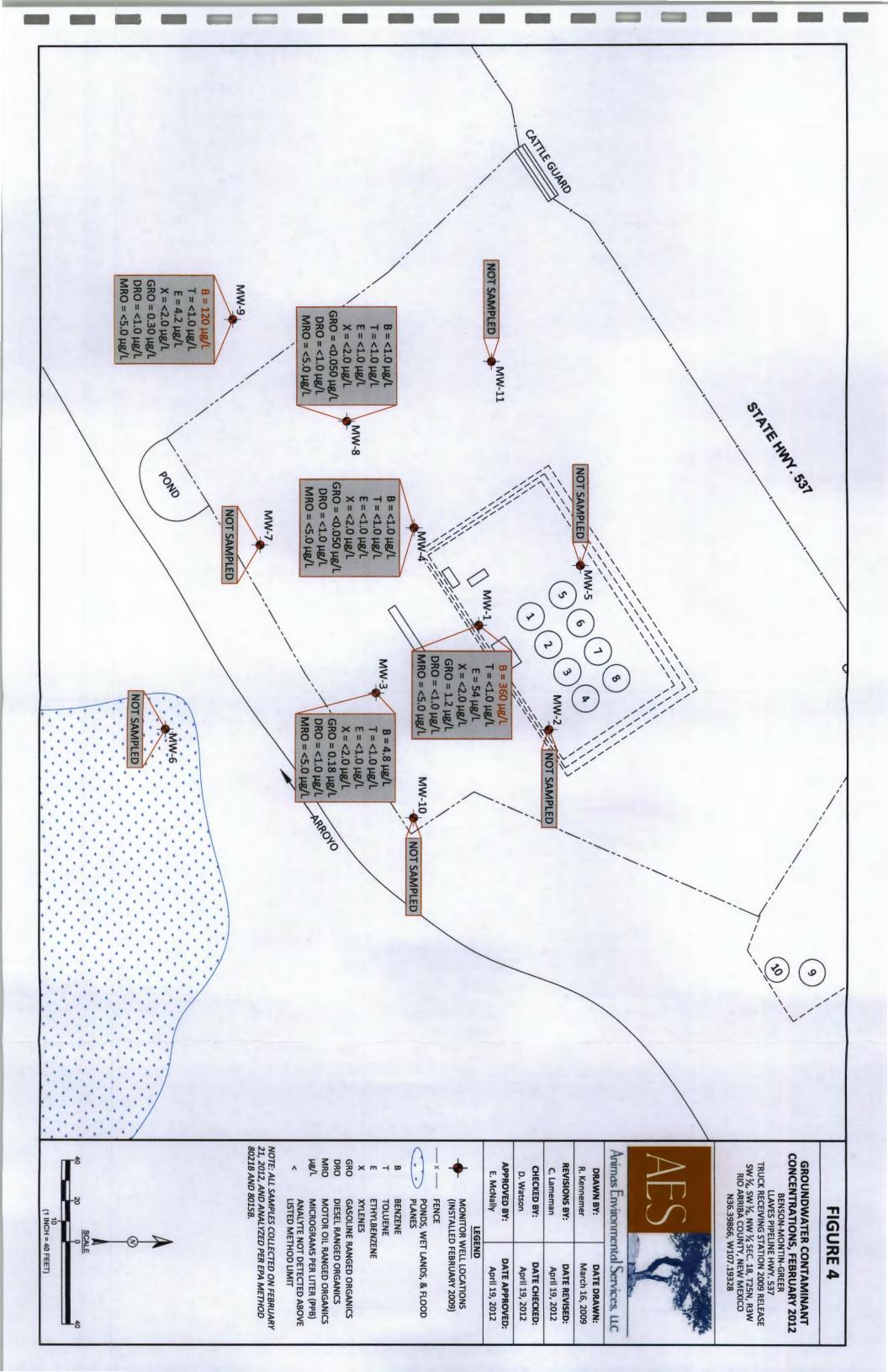
MRO = Motor Oil Range Organics

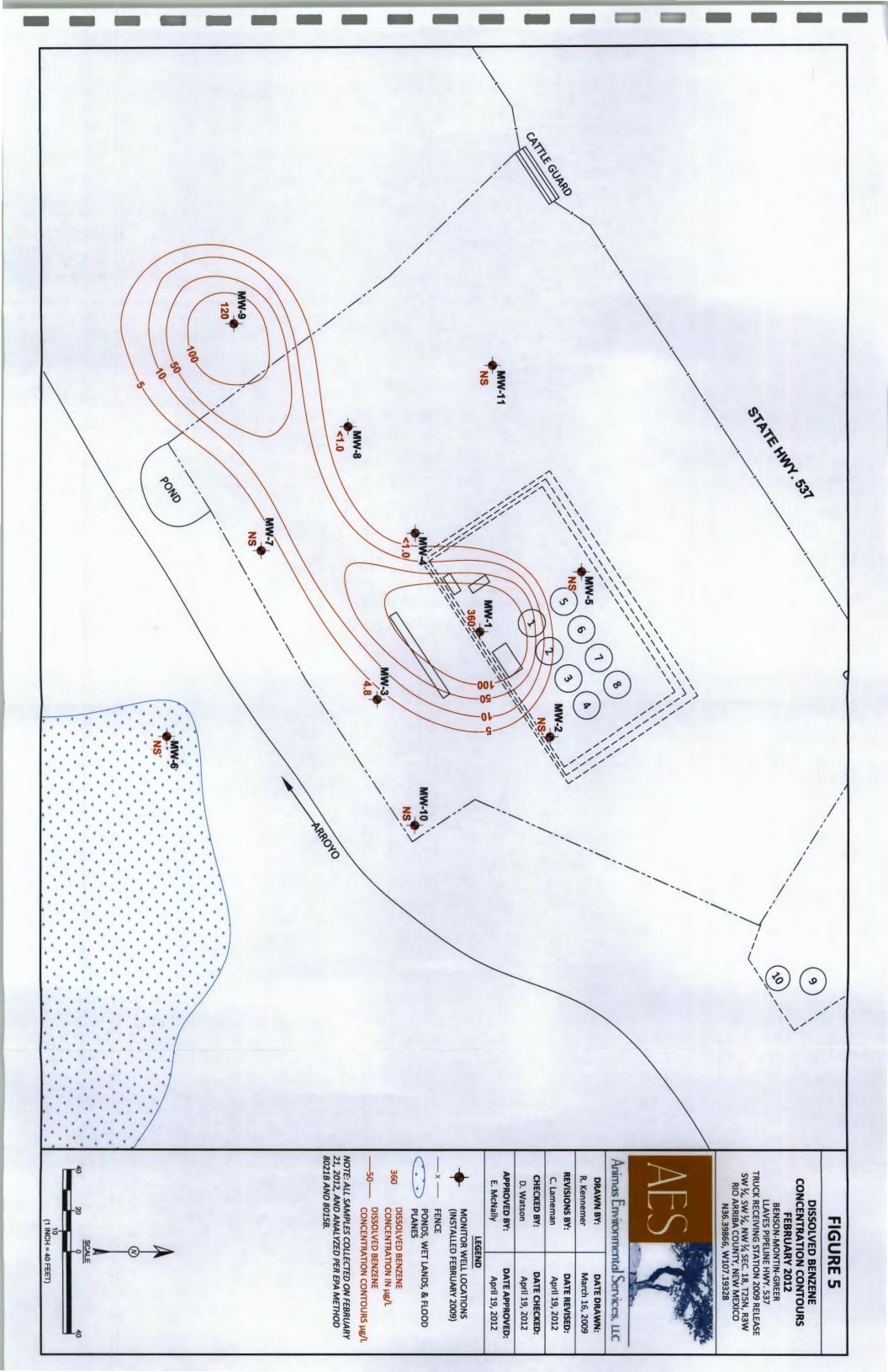
^{* =} Monitoring Well from HWY 537 '06-'07 spill

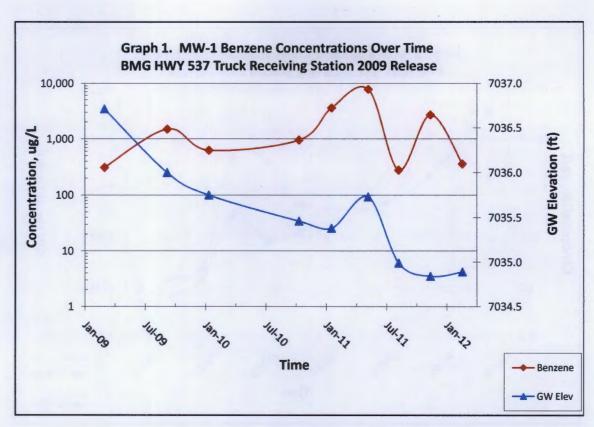


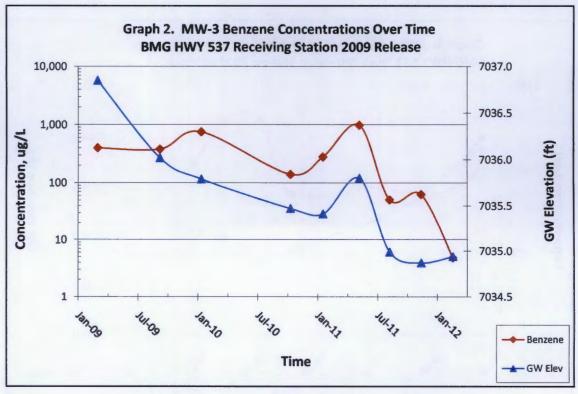


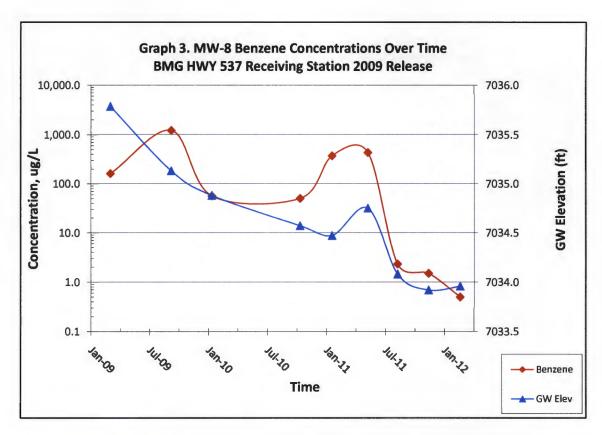


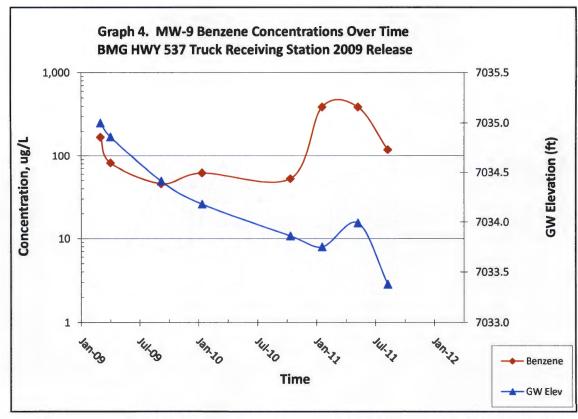












DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

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

Project No.: AES 090201

Date: 1/- 16-11

Time: 10/0 Form: 1 of 1

Project:	Groundwater Monitoring	

Site: Hwy 537 Truck Station Spill 2009
Location: Rio Arriba County, New Mexico

Tech:

Nathan Willis

ecn:	ivatnan v	/VIIIIS			Form: Tor I
Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1624		29.82		
MW-2	1238		29.52		
MW-3	1517		29.14		
MW-4	1202		29,26		
MW-5	1122		30,00		
MW-6	1418		14.99		
MW-7	1339		28.38		
MW-8	1445		29.35		
MW-9	1557		29.41		
MW-10	1310		28.20		
MW-11	1045		30.07		
			•		
				· · · · · · · · · · · · · · · · · · ·	
		<u> </u>			

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

MON	ITORING W	ELL SAMPL	ING REC	ORD	A	nimas Environme	ental Services			
Mon	nitor Well No:	MW	-1	-	1	524 E. Comanche, Farm Tel. (505) 564-2281 Fax	•			
Site	: Highway 537	Truck Station S	Spill 2009		<u> </u>	Project No.: AES 0902				
Location	Rio Arriba Co	ounty, New Mex	ico		-	Date: 1 - 16				
		Monitoring and			-	Arrival Time: 1622				
-	g Technician:				-	Air Temp: 50°				
Purg	e / No Purge:	Purg	e		T.O	.C. Elev. (ft): 7064				
Well	Diameter (in):	2			Total We	ell Depth (ft): 43.	65			
	al D.T.W. (ft):		Time:			(taken at initial gauging	of all wells)			
		29.82		162	4	(taken prior to purging				
	al D.T.W. (ft):		Time:			(taken after sample col	•			
If N	APL Present:	D.T.P.:	D.T.W	/.:	Th	ickness: T	ime:			
	V	Vater Quality	Paramete	rs - Rec	orded [Ouring Well Purging				
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(μS) (ms)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations			
1627	11.66	3.427	3.48	5.52	-73,1	0,25 gal.				
1630	10.88	3,518	3.14	5,30	-9Z.Z	0.25				
1633	10.98	3.754	2.75	5,29	-95.2	1,25				
1636	11,35	4.030	3.21	5,31	-91.4	1.25				
1639	11,50	4.261	2.70	5.32	-84.6	1.25				
1642	11.70	4.332	2.70	5,33		1.25				
1645	11,57	4.385	2.89	5,35	-69.7	1.25				
1650							Samples			
Collected										
Collected										
Analyt	ical Paramet	ters (include a	analysis n	nethod a	and nur	nber and type of san	nple containers)			
		BTEX per EP	A Method 8	8021 (3 40	mL Vials	s w/ HCl preserve)				
	TF	PH C6-C36 per l	EPA Metho	d 8015B	(2 40mL	Vials w/ HCl preserve)				
	T.	PH C6-C36 per	EPA Metho	d 8015B	(40mL V	iał w/ no preservative)				
	Di	sposal of Purg	ed Water:							
Collec	cted Samples	Stored on Ice i	in Cooler:							
	Chain of Cu	stody Record (Complete:							
		Analytical La	boratory:	Hall Envi	onmenta	al Analysis Laboratory, A	Albuquerque, NM			
Equipme	ent Used Duri	ing Sampling:	Keck Water	Level or	Keck Int	erface Level, YSI Water	Quality Meter			
		and	New Dispo	sable Bai	ler					
Notes/Com	ments:									
				~~~						

MONI	TORING W	ELL SAMPLI	ING REC	Ar	Animas Environmental Services				
Mon	itor Well No:	MW-	-2		6	24 E. Comanche, Farm	inaton NM 87401		
					7	Tel. (505) 564-2281 Fax (505) 324-2022			
		Truck Station S				Project No.: AES 090201			
		ounty, New Mexic			_ ,	Date:   -  6-			
	Groundwater Technician:	Monitoring and N Willis	Sampling			Arrival Time: 1237 Air Temp: 52°F			
	e / No Purge:		e		T.O	.C. Elev. (ft): 7064			
Well	Diameter (in):	2		<u>-</u> _		otal Well Depth (ft): 44.2			
	al D.T.W. (ft):		Time:			(taken at initial gauging	· ·		
	m D.T.W. (ft): al D.T.W. (ft):	29.52	Time: Time:	1239	8	_(taken prior to purging (taken after sample col			
	APL Present:		_ Time: D.T.W	v.:	Th	ickness: T			
		· · · · · · · · · · · · · · · · · · ·			•	Ouring Well Purging			
	Temp	Conductivity	DO	T	ORP	PURGED VOLUME			
Time		1 1			1		Notes/Observations		
	(deg C)	(µS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	NOTES/Observations		
1241	11,99	4.092	3.82	7.51	144.4	0,25 gal.			
1244	12.02	4.090	2,96	7.66	152.3	0.75			
1247	12,00	4.088	2.67	7.73	159.2	1,25			
1250	11.77	4.060	2.20	7.68	164,9	1.25			
1253	11.69	4.036	2,27	7.59	169.8	1.25			
1256	11,77	4.017	2.83	7.54	173,5	1.25			
1259	11.60	4.021	2.48	7.51	176.2	1.25			
1304					1		Samples Collected		
					Malfunction				
			1		3				
-		i			3				
			<del></del> !		- <u>-                                  </u>				
					Posible				
Analyti	ical Parame	ters (include a	analysis r	method		mber and type of sar	mple containers)		
· · · · · · · · · · · · · · · · · · ·		•							
				· · · · · · · · · · · · · · · · · · ·		s w/ HCl preserve)			
			• • • • • • • • • • • • • • • • • • • •		`	Vials w/ HCl preserve)			
	· · · · · · · · · · · · · · · · · · ·	isposal of Purg			(40mL v.	ial w/ no preservative)			
Collec		Stored on Ice i	-						
Oone	•	stody Record C	-						
	Cham or Gu	-	-	U-II Envi		- LA Lucia Laboratoru	All NIM		
<b>-</b>		_	-			al Analysis Laboratory, A			
Equipme	ent Used Duri					terface Level, YSI Water	r Quality Meter		
		and	New Dispos	sable Bai	ler				
Notes/Com	ments:								

MONI	TORING W	ELL SAMPLI	NG REC	Animas Environmental Services					
Mon	itor Well No:	MW	-3	-	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022				
Site: Highway 537 Truck Station Spill 2009					Project No.: AES 090201				
		ounty, New Mexi			Date: 1/-16-11				
•		Monitoring and	Sampling		_ /	Arrival Time: 15/5 Air Temp: 50°F			
	g Technician: e / No Purge:				. TO	Air Temp: 50 .C. Elev. (ft): 706			
	Diameter (in):		E			ell Depth (ft): 41			
	al D.T.W. (ft):		Time:	-	rotal III	(taken at initial gauging			
	m D.T.W. (ft);		Time:	1517		(taken prior to purging			
Fin	al D.T.W. (ft):		Time:			(taken after sample co			
If N.	APL Present:	D.T.P.:	D.T.W	/.:	Th	ickness:T	ime:		
	v	Vater Quality	Paramete	rs - Rec	orded E	Ouring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1520	11.59	4.226	2.44	6,48	-131.1	0.25 gal.			
1523	10.85	4,249	1.88	6,49	-129.6				
1526	10.77	4.265	1.82	6.51	-131.2				
1529	10.92	4.258	1.62	6.50	-130.2				
1532	10,71	4.305	1.80	6.52					
1535	10,72	4.316	2.41	6.52					
1538	10.87	4.326	2,17	6.53					
1543							Samles		
							Collected		
			·		·				
Analyt	ical Paramet	ters (include a	analysis r	nethod a	and nun	nber and type of sai	mple containers)		
		BTEX per EP	A Method 8	3021 (3 40	mL Vials	s w/ HCl preserve)			
	TF	PH C6-C36 per l	EPA Metho	d 8015B	(2 40mL	Vials w/ HCl preserve)			
	Т	PH C6-C36 per	EPA Metho	od 8015B	(40mL V	ial w/ no preservative)			
	Di	sposal of Purg	ed Water:						
Collec	cted Samples	Stored on Ice i	in Cooler:						
	Chain of Cu	stody Record (	Complete:						
		Analytical La	boratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipm	ent Used Dur	ing Sampling: _	Keck Wate	r Level or	Keck Int	erface Level, YSI Wate	r Quality Meter		
		and	New Dispo	sable Bai	ler				
Notes/Com	ments:		<u>.</u>			W. V			
				·····					

MONI	TORING W	ELL SAMPLI	NG REC	ORD	Animas Environmental Services				
	nitor Well No:	****				624 E. Comanche, Farmington NM 87401			
				-	Т	Tel. (505) 564-2281 Fax	x (505) 324-2022		
		Truck Station S	·		_	Project No.: AES 0902			
		ounty, New Mexic			- /	Date: 11-16-1 Arrival Time: 12.00			
• •	g Technician:	r Monitoring and :  N. Willis	Sampling		-	Arrival Time: 1200 Air Temp: 51°1			
		: Purge	e		T.O	.C. Elev. (ft): 7063			
Well D	Diameter (in):	2			Total We	ell Depth (ft): 4	4		
Initi	ial D.T.W. (ft):		Time:			_(taken at initial gauging	•		
Confirm	m D.T.W. (ft):	29.26		120		(taken prior to purging			
	al D.T.W. (ft): APL Present:		_ Time: D.T.W	w ·		_(taken after sample collickness:T			
	Water Quality Parameters - Recorded During Well Purging								
	Temp	Conductivity	1		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (ms)	(mg/L)	рН	(mV)		Notes/Observations		
1205	12,21	4.675			1				
1208	12.01	4.716	2,97	7.09	215,1				
1211	11.92	4.709	2,97	7,09	1.85,2				
1214	11,72	4,724		7.10	172.4	1.25			
1217	11.94	4.713	Z.29	7.16	164.1	1.25			
1220	12.05	4,701	Z.37	7.11	160,4	1.25			
1223	11.66	4.725	2.15	7.11	153.0				
1728						. 25	Samples Colledo		
					Melforchion		39		
					4				
		l			2				
<b>——</b>		<del>                                     </del>			Paible				
Analyt	'! Paramo	terre (include (				t			
Allaiyu	Cai Paramei		<del> </del>			mber and type of sar	npie containers,		
	_					s w/ HCl preserve)			
		· · · · · · · · · · · · · · · · · · ·			·	Vials w/ HCl preserve)			
					(40mL V	/ial w/ no preservative)			
		isposal of Purge	-						
Collec	-	Stored on Ice i	-						
	Chain of Cu	istody Record C							
			-			al Analysis Laboratory, A			
Equipm	ent Used Dur	ing Sampling:	Keck Wate	r Level or	Keck Int	terface Level, YSI Water	r Quality Meter		
		and i	New Dispo	sable Bai	ler				
Notes/Com	ments:								
	,								

MONI	TORING W	ELL SAMPLI	ING REC	A	Animas Environmental Services				
Mon	nitor Well No:	MW-	-5		6	624 E. Comanche, Farmington NM 87401			
						Tel. (505) 564-2281 Fax	(505) 324-2022		
		Truck Station S	<del></del>			Project No.: AES 090201			
		ounty, New Mexi			_	Date:   - 6-			
	Groundwater  g Technician:	Monitoring and	Sampling		_ *	Arrival Time:   20 Air Temp: 48°F			
	e / No Purge:		le		T.O	o.C. Elev. (ft): 7064			
	Diameter (in):					ell Depth (ft): 44			
Initi	al D.T.W. (ft):		Time:		(taken at initial gauging of all wells)				
		30.00	Time:			_(taken prior to purging			
	al D.T.W. (ft):	D.T.P.:	_ Time: D.T.W	v ·	Th	_(taken after sample col lickness: T	•		
							IIIIe		
	Γ		Τ	rs - Kec		During Well Purging	r		
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	pН	(mV)		Notes/Observations		
33	11.53	4.802	4.30	<b>#</b> 7.13	Z91.8	0.25 gal.			
1136	11.38	4.810	4.33	7.15	Z90.7	0.75			
1139	11.32	4,827	4.67	7.15	290.5	1.25			
1142	11.18	4. 823	4.65	7.16	290.3				
1145	11, 25	4.820	3.83	T	Z89.9				
1148	11.20	4.810	4.65		289.9	1.25			
1151	11.16	4.814	4.47	7	Z90.4	1.25			
1156	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				14.00		Samples Collected		
1/ -					-3		Darry 165 Colice		
					Helfon				
					!!				
				<b></b>	<u> 1</u>				
					3				
A I4					<u> </u>				
Anaiyu	ical Parame					nber and type of sar	nple containers)		
		BTEX per EP.	A Method 8	3021 (3 40	OmL Vials	s w/ HCl preserve)			
	TF	PH C6-C36 per I	EPA Metho	d 8015B	(2 40mL	Vials w/ HCl preserve)			
	Ti	PH C6-C36 per	EPA Metho	od 8015B	(40mL V	ial w/ no preservative)			
	Di	isposal of Purg	ed Water:						
Collec	cted Samples	Stored on Ice i	in Cooler:						
	Chain of Cu	stody Record C	Complete:						
		Analytical La	aboratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipme	ent Used Dur	-	-			terface Level, YSI Water			
, .		- ·	New Dispos				,		
Notes/Com	ments:								
10.00.00	THO THO THE								
			*****				·		

MONI	MONITORING WELL SAMPLING RECORD					Animas Environmental Services				
Mon	itor Well No:	MW	-6	_	1	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022				
Sito	Highway 537	Truck Station S	nill 2000			Project No.: AES 0902				
	Site: Highway 537 Truck Station Spill 2009  Location: Rio Arriba County, New Mexico					Date: ([- [6-1]				
	Project: Groundwater Monitoring and Sampling					Arrival Time: 1416				
_	Technician:		Sampling		- <b>'</b>	Air Temp: 53°	~			
	e / No Purge:		Δ		т о	.C. Elev. (ft): 7049				
	Diameter (in):				Total Well Depth (ft): 23.55					
	al D.T.W. (ft):		Time:	_	i Otal VV					
	m D.T.W. (ft):			1418		(taken at initial gauging of all wells) (taken prior to purging well)				
	al D.T.W. (ft):	11.11	Time:	1110		(taken after sample col				
l .	, ,	D.T.P.:		V.:	Th		ime:			
Water Quality Parameters - Recorded During Well Purging  Temp Conductivity DO ORP PURGED VOLUME										
Time	(deg C)	(µS) (mS)	(mg/L)	рH	(mV)	(see reverse for calc.)	Notes/Observations			
1420	11,84	4,386	3.05	6.61	179.7		Notes/Observations			
1423	12.00	4.389	2.78	6.55	182,4	0,25 gal.				
1426	12.00	4,393	2.79	6,51	184,9					
1429	12.05	4,400	2.31	6.48	183,9	i				
143Z	12.01	4,398	2,74	6.46	182,1					
1437		(1) (0		Ψ	102/		Samples			
1,751						Collected				
·		11-1					Collected			
		7								
Analyti	cal Paramet	ters (include a	nalysis n	nethod a	and nun	mber and type of sar	nple containers)			
		BTEX per EP	A Method 8	3021 (3 40	mL Vials	s w/ HCl preserve)				
	TF	PH C6-C36 per E	EPA Metho	d 8015B	(2 40mL	Vials w/ HCl preserve)				
	TI	PH C6-C36 per l	EPA Metho	od 8015B	(40mL V	ial w/ no preservative)				
	Di	sposal of Purge	ed Water:							
Collec	ted Samples	Stored on Ice i	n Cooler:							
	Chain of Cus	stody Record C	omplete:							
		Analytical La	boratory:	Hall Envir	ronmenta	al Analysis Laboratory, A	Albuquerque, NM			
Equipme	ent Used Duri	ing Sampling: 🛚	Keck Water	r Level or	Keck Int	erface Level, YSI Water	Quality Meter			
		and I	New Dispo	sable Bai	ler					
lotes/Com	ments:									
				2017						
	!									

MON	ITORING W	ELL SAMPLI	NG REC	ORD	Ai	Animas Environmental Services				
Mor	nitor Well No:	MW	-7		6	624 E. Comanche, Farmington NM 87401				
						Tel. (505) 564-2281 Fax (505) 324-2022				
Site: Highway 537 Truck Station Spill 2009  Location: Rio Arriba County, New Mexico						Project No.: AES 090201				
		ounty, New Mexi Monitoring and		·	-	Date: <u>   -  6 -   </u> Arrival Time:   336				
	g Technician:		Sampling		Air Temp: 53°F					
	je / No Purge:		е		T.O		62.8			
	Diameter (in):			- -	Total We	ell Depth (ft): 44				
	al D.T.W. (ft): m D.T.W. (ft):		Time:	133		(taken at initial gauging (taken prior to purging	,			
	al D.T.W. (ft):		. Time. Time:	133	٩	taken phor to purging (taken after sample co	•			
	APL Present:		D.T.W	<i>7</i> .:	Th	• *	ime:			
	٧	Vater Quality	Paramete	rs - Rec	orded D	Ouring Well Purging				
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(µS) /mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations			
1342	11.88	4.029	Z.85	6.21	188.4	0.25 asl.				
1345	11.39	4.050	3.35	6.25		0.5				
1348	11,52	4.050	2,98	6.28	183.5	1-35 1.5				
1351	11.54	4.061	3,47	6.30	181.8	tit 1.5				
1354	11,44	4.066	2.84	6.30						
1357	11.28	4.068	3.31	6.31						
1400	11.24	4.077	Z.75	6.3Z	168.0	2005 1.5				
	~				52	<b>3</b>	>			
1405							Samples Collected			
Analyt	ical Parame	ters (include a	nalysis n	nethod a	and nun	nber and type of sar	mple containers)			
		BTEX per EP	A Method 8	3021 (3 40	mL Vials	s w/ HCl preserve)				
	TĮ	PH C6-C36 per E	PA Metho	d 8015B	(2 40mL	Vials w/ HCI preserve)				
	Т	PH C6-C36 per	EPA Metho	d 8015B	(40mL V	ial w/ no preservative)				
	Di	sposal of Purg	ed Water:							
Collec	cted Samples	Stored on Ice i	n Cooler:							
	Chain of Cu	stody Record C	complete:							
		Analytical La	boratory:	Hall Envir	onmenta	al Analysis Laboratory, A	Albuquerque, NM			
Equipm	ent Used Dur	ing Sampling: _l	Keck Water	Level or	Keck Int	erface Level, YSI Water	r Quality Meter			
		and	New Dispo	sable Bai	ler					
Notes/Com	ments:	***************************************								
				,						
	!					· · · · · · · · · · · · · · · · · · ·				

MONI	TORING W	ELL SAMPLI	NG REC	Animas Environmental Services						
Mon	itor Well No:	MW-	-8		6	624 E. Comanche, Farmington NM 87401				
				_	ן ד	Tel. (505) 564-2281 Fax	(505) 324-2022			
		Truck Station S			Project No.: AES 090201					
		ounty, New Mexi		Date: 1/-16-11						
	Groundwater Technician:	Monitoring and	Sampling		Arrival Time: 1443 Air Temp: 50°F					
	e / No Purge:		e		T.O	.C. Elev. (ft): 7063				
_	Diameter (in):				Total Well Depth (ft): 44.1					
Initia	al D.T.W. (ft):		Time:			(taken at initial gauging	*			
Confir	m D.T.W. (ft):	29.35	Time:	1445	<u> </u>	(taken prior to purging				
	al D.T.W. (ft):	D.T.P.:	_ Time: _ DTW	v ·	Th	_(taken after sample collickness:				
			<del></del>							
	T			rs - Kec		Ouring Well Purging				
	Temp	Conductivity	1		ORP	PURGED VOLUME				
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations			
1448	11.99	3.924	3.16	6.54	-113.3	0.25 gal,				
1451	11,77	3.920	3.00	6.56	-132.5	0.75				
1454	11,99	4.070	2.37	6.55	-133.6	1, 25				
1457	11.53	4.166	2.46	6.55	-130.1	1.25				
1500	11.51	4.174	2.62		-124.6					
1503	11.61	4,194			1 1 4					
1506	11.49	4,218	2.57	6.49						
1511	~			-	Samples					
							Collected			
Analyti	ical Parame	ters (include a	analysis r	method	and nur	nber and type of sar	mple containers)			
		BTEX per EP	A Method 8	8021 (3 4	0mL Vials	s w/ HCl preserve)				
grange, and a	TI					Vials w/ HCl preserve)				
			· · · · ·		<del>``</del>	'ial w/ no preservative)				
		isposal of Purg								
Collec	cted Samples	Stored on Ice	in Cooler:							
	Chain of Cu	stody Record (	Complete:							
		Analytical La	aboratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM			
Equipme	ent Used Dur	ing Sampling:	Keck Wate	r Level or	Keck Int	terface Level, YSI Water	r Quality Meter			
			New Dispo							
Notes/Com	ments:									
1 1112										
	!									

MONI	TORING W	ELL SAMPLI	NG REC	Aı	Animas Environmental Services				
Mon	itor Well No:	MW-	<b>-</b> 9		6	624 E. Comanche, Farmington NM 87401			
	······			-	-	Tel. (505) 564-2281 Fax			
		Truck Station S			_	Project No.: AES 090201			
		ounty, New Mexi r Monitoring and			-	Date:   - 6-			
	Technician:		Sampling		- ′	Arrival Time: <u>1550</u> Air Temp: <u>50°</u> F			
	e / No Purge:		e		- т.о		62.6		
Well E	Diameter (in):	2				otal Well Depth (ft): 39.15			
Initia	al D.T.W. (ft):		Time:			(taken at initial gauging of all wells)			
Confir	m D.T.W. (ft): al D.T.W. (ft):	29.41	_ Time: Time:	155	1	_(taken prior to purging (taken after sample col			
	APL Present:		- Time: D.T.W	v.:	Th		ime:		
Water Quality Parameters - Recorded During Well Purging									
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)		Notes/Observations		
1554		4,144		T		<del>                                     </del>	Notes/Observations		
	12.05	† - <u>.                                     </u>	3.70	5.98	-56.9	0,25 gal.			
1557		4,163			<del>                                     </del>	l l			
1600	11,90	4.280	2.89	5.64	-74.6	<u> </u>			
1603	12.15	4,311	2.76	5.56	-73.4				
1606	11,98	4, 371	2.26	5.59	-74.1				
1609	11.80	4.402	2.67	5,56	-75.1				
1614							Samples		
	<u> </u>	,					Collected		
					<u>_</u> _				
Analyti	ical Paramet	ters (include a	analysis r	nethod :	and nur	nber and type of sar	mple containers)		
		BTEX per EP	A Method 8	3021 (3 40	0mL Vials	s w/ HCl preserve)			
	TI	***************************************				Vials w/ HCl preserve)			
					<u> </u>	/ial w/ no preservative)			
	Di	isposal of Purg	ed Water:						
Collec	ted Samples	Stored on Ice i	in Cooler:						
	Chain of Cu	stody Record C	Complete:						
		Analytical La	iboratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipme	ent Used Dur	ing Sampling:	Keck Wate	r Level or	Keck Int	terface Level, YSI Wate	r Quality Meter		
. <u> </u>			New Dispo						
Notes/Com	ments:								
				- the state of the					
····					<del></del>		11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
	,			-					

MONI	TORING W	ELL SAMPLI	NG REC	ORD	Animas Environmental Services					
Mon	itor Well No:	MW-	10		624 E. Comanche, Farmington NM 87401					
					1	Tel. (505) 564-2281 Fax (505) 324-2022				
Site: Highway 537 Truck Station Spill 2009  Location: Rio Arriba County, New Mexico						Project No.: AES 0902				
		Monitoring and			Date:   - 6-					
	Technician:		Sampling	-	Arrival Time: <u>130</u> 分 Air Temp: <u>53</u> 0分					
	e / No Purge:		e		т.о	.C. Elev. (ft): 706				
	Diameter (in);					otal Well Depth (ft): 38.8				
Initia	al D.T.W. (ft):		Time:			(taken at initial gauging				
Confir	m D.T.W. (ft):	28.20	Time:	1310		(taken prior to purging	· ·			
	al D.T.W. (ft): API_Present:	D.T.P.:	Time:	· ·	Th	(taken after sample colickness:T				
<u> </u>										
	V	Vater Quality	Paramete	rs - Rec	orded E	Ouring Well Purging				
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(µS) ( <b>£</b> \$)	(mg/L)	рН	(mV)		Notes/Observations			
#333 131	11.41	3,892	2,92	6.38	178.9	0.25 gal.				
1316	11.31	3.890	2.90	6.29	181.3	1				
3 9	11.19	3. 896	3.06	6,24	184.4					
1322	11,09	3,905	2.68	6.21	186,6					
1325	10.84	3.919		6.18						
1328	10.81	3.912	2.81	6.17	1967					
1333					Samples Colle					
							S-10-91-5 C-11-511-4			
		,	** :							
	-									
Analyti	cal Paramet	ters (include a	ınalysis r	nethod a	and nun	nber and type of sar	mple containers)			
						s w/ HCl preserve)				
	TF					Vials w/ HCl preserve)				
						ial w/ no preservative)				
		sposal of Purg								
Collec	ted Samples	Stored on Ice i	n Cooler:							
	Chain of Cu	stody Record C	omplete:							
		Analytical La	boratory:	Hall Envir	ronmenta	al Analysis Laboratory, A	Albuquerque, NM			
Equipme	ent Used Duri	ing Sampling: I	Ceck Water	r Level or	Keck Int	erface Level, YSI Water	Quality Meter			
		-	New Dispo							
Notes/Comr	nents:									
		74 Av., 11.4-11.								
	!									

MONI	TORING W	ELL SAMPLI	MONITORING WELL SAMPLING RECORD					Animas Environmental Services			
	nitor Well No:				1	Tel. (505)	omanche, Farm ) 564-2281 Fax	x (505) 324-20			
		7 Truck Station S	<u> </u>		_	-	No.: AES 0902				
8		ounty, New Mexic			-		Date: 11-16-	-11			
•		r Monitoring and	Sampling		- *	Arrival Time: 10/0					
	g Technician: je / No Purge:				- то		emp: <u>4<i>8°F</i></u> . (ft): 706				
_	Diameter (in):		<u> </u>				(ft): 700 (ft): 42				
Initia	ial D.T.W. (ft):	;	Time:	-	100	(taken at initial gauging of all wells)					
Confir	m D.T.W. (ft):	30,07	Time:	1045	·	_(taken p	orior to purging	well)			
Fina	al D.T.W. (ft):	;	Time:				after sample col				
If N	APL Present:	D.T.P.:	D.T.W	<i>I</i> .:	Th	ickness:	:	ime:	_		
	V	Water Quality F	Paramete	rs - Rec	orded [	<del>,</del>			-		
	Temp	Conductivity	DO		ORP		ED VOLUME				
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see rev	verse for calc.)	Notes/Obse	rvations		
1050	12.13	4.742	3.61	6.36	303,9		0.25 gal.				
053	11.67	44,771	5,52	+- <u>;</u>	306.6	<del>                                     </del>	1, 25				
1056	11,22	4.777	3.88		307.9		1,25				
1059	11.24	4,765	4.40		308.4		1.25				
1102	11.57	4.767	4.12		308,2	1	1.25				
1105	11.49	4.762	3.61		307.9	T	1.25 1.25				
1110		1. 700	J. <del></del>	+.00	307.		. L J	12 11.4	Collected		
1110								Samples	Collean		
		<del>                                     </del>		1/1	2	<del>///-</del>					
	<b></b>	<del>                                     </del>	·	<del>                                     </del>	osible nc hio	<del></del>					
	<del></del>			<del>       </del>	Position of the contract of th	<del>     -</del>					
	<del></del>		J	+	4	<del>                                     </del>		<del> </del>			
	i				1 S	4_			<del>- 7 "</del>		
						<u> </u>			<del></del>		
Analyti	ical Paramet	ters (include a	ınalysis n	nethod a	and nun	nber an	d type of sar	mple contair	ners)		
		BTEX per EP/	A Method 8	3021 (3 40	JmL Vials	s w/ HCl	preserve)				
	TF	PH C6-C36 per E	EPA Metho	od 8015B (	(2 40mL	Vials w/ I	HCI preserve)				
	TI	PH C6-C36 per l	EPA Metho	od 8015B	(40mL V	ial w/ no	preservative)				
	Di	isposal of Purge	ed Water:								
Collec	cted Samples	Stored on Ice i	n Cooler:								
	Chain of Cu	stody Record C	Complete:				· · · · · · · · · · · · · · · · · · ·				
		Analytical La	iboratory:	Hall Envir	ronmenta	al Analysi	is Laboratory, A	Albuquerque, I	NM		
Equipme	ent Used Dur	ring Sampling: Ł	-								
·		-	New Dispos					<del>-</del>			
Notes/Com	ments:			-							
			m								

MON	TORING W	ELL SAMPLI	NG REC	ORD	A	nimas Environme	ntal Services		
Mon	nitor Well No:			-	,	324 E. Comanche, Farm Tel. (505) 564-2281 Fax	0		
		Truck Station S			_	Project No.: AES 0902			
		ounty, New Mexi			Date:				
		Monitoring and	Sampling		Arrival Time:				
Sampling	g Technician:	N. Willis			- <b>-</b>	Air Temp:			
Purg	je / No Purge:	Purge 2	<u>e</u>	- ,		.C. Elev. (ft):			
l vveir i	Diameter (in):		Time			ell Depth (ft): (taken at initial gauging	of all walls)		
Confir	m D.T.W. (ft):		Time:			_ (taken at initial gauging _ (taken prior to purging			
Fin	al D.T.W. (ft):		Time:			_(taken after sample col	llection)		
lf N	APL Present:	D.T.P.:	D.T.W	V.:	Th	(taken after sample col	ime:		
						Ouring Well Purging	WAL-9 U. W		
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
					<del> </del>				
Analyt	ical Paramet	ters (include a	ınalysis n	nethod	and nur	nber and type of sar	mple containers)		
		BTEX per EP	A Method 8	3021 (3 40	OmL Vials	s w/ HCl preserve)			
	TF					Vials w/ HCI preserve)			
					`	· · · · · · · · · · · · · · · · · · ·			
		· ·			· · · · · · · · · · · · · · · · · · ·	ial w/ no preservative)			
		sposal of Purge	-						
Collec	_	Stored on Ice i	-						
	Chain of Cu	stody Record C	omplete:						
		Analytical La	boratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipme	ent Used Duri	ing Sampling: ا	Keck Water	r Level or	Keck Int	terface Level, YSI Water	r Quality Meter		
		_	New Dispo						
Notes/Com	ments:		-						
10103/00111	merits.								
	•								

# DEPTH TO GROUNDWATER MEASUREMENT FORM

**Animas Environmental Services** 

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

Project No.: AES 090201

Date: 2-21-12 Time: 13 05

**Form:** 1 of 1

Project: Groundwater Monitoring

Site: Hwy 537 Truck Station Spill 2009
Location: Rio Arriba County, New Mexico

Tech:

Nathan Willis

Well I.D.	Time	Depth to NAPL	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1542		29.77		
MW-2	[33]		29.46		
MW-3	1502		29.07		
MW-4	14Z5		29,22		
MW-5	1329		29.96		
MW-6	1324		14.90		
MW-7	1334		28.31		
MW-8	1339	_	Z9.31		
MW-9	1627	_	29.39		
MW-10	1333		28.13		
MW-11	1327		30.04	~	
		N.			
·					

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

MON	ITORING W	MONITORING WELL SAMPLING RECORD				Animas Environmental Services			
Mon	nitor Well No:	MW-	-1			624 E. Comanche, Farm	•		
						Tel. (505) 564-2281 Fax			
		7 Truck Station S				Project No.: AES 0902			
		ounty, New Mexic			_	Date: 2-21-	12		
		r Monitoring and  • N. Willis	Sampling			Arrival Time: 1540			
	g Technician: ae / No Purge:				- то	Air Temp: <u>40°F</u> 3 C. Fley (ft): 706			
	<b>₃е / No Purge:</b> Diameter (in):			-	Total We	O.C. Elev. (ft): 7064 ell Depth (ft): 43.	4.00		
	ial D.T.W. (ft):	·	Time:	-		en beptn (tt):4s. (taken at initial gauging			
Confir	m D.T.W. (ft):	79.47	_ Time:	1542		_(taken prior to purging			
	nal D.T.W. (ft):		Time:	<u> </u>		_(taken after sample col	•		
	IAPL Present:		D.T.W	v.:		ickness:Ti			
	V	Nater Quality	Paramete	rs - Rec	orded [	Ouring Well Purging			
Temp Conductivity DO					ORP	PURGED VOLUME	T		
Time	(deg C)	(µS) (何\$)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1548	12.03	4,531	1.16	6.87	-129.4	0.25 gal.			
1551	12,05	4,034	1,09	T .	-137.8	0.5			
1555	12.07	4.037	1.06		<del>                                     </del>				
1559	12.11	4,139	1.04	6.72	-143.8				
1602	12.08	4.041	1.10	6.71	-141.9	1. 25			
1606	12.06	4.044	1.03	6.71	-142.6				
1610	12.01	4.063	1.09	6.78	-123.9	1. 25			
1615							Samples		
	<b> </b>		<del>                                     </del>	!			Collected		
	<b></b>				1				
		<del>                                     </del>	l	<b></b>					
		<del>                                     </del>					<u> </u>		
Analyt	'! Parama	1 - ('ludo (	السياد	41 4	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Апагуи	ical Paramet			, , , , , , , , , , , , , , , , , , , ,		mber and type of san	nple containers;		
<del> </del>						s w/ HCl preserve)			
						Vials w/ HCl preserve)			
	TI	PH C6-C36 per l	EPA Metho	od 8015B	(40mL Vi	ial w/ no preservative)			
		isposal of Purg	-						
Collec		s Stored on Ice i	_						
	Chain of Cu	stody Record C	-						
		_			·	al Analysis Laboratory, A	·		
Equipme	ent Used Duri	<del>-</del>				erface Level, YSI Water	Quality Meter		
	and New Disposable Bailer								
Notes/Com	ments:	- 1							
	ł								

<del>revised: 08/10/0</del>9

MON	MONITORING WELL SAMPLING RECORD					Animas Environmental Services			
Mon	nitor Well No:	MW	-3		6	24 E. Comanche, Farm	ington NM 87401		
					Γ	Геl. (505) 564-2281 Fax	(505) 324-2022		
B		Truck Station S			-	Project No.: AES 0902			
		ounty, New Mexi Monitoring and			Date: <u>2-2 - 2</u> Arrival Time: <u>1500</u>				
	g Technician:		Sampling		Air Temp: 400 F				
Purg	je / No Purge:	Purg	e		T.O.C. Elev. (ft): 7064.01				
	Diameter (in):				Total We	Il Depth (ft): 41			
Confir	ial D.T.W. (ft):	79.07	_ Time: Time:	1500	,	(taken at initial gauging (taken prior to purging			
Final D.T.W. (ft): Time:						(taken after sample col	=		
		D.T.P.:	D.T.W	l.:	Thi	ckness: T			
	٧	Vater Quality	Paramete	rs - Rec	orded D	uring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1508	11.11	4.519	1.55	7.13	138.9	0. 25 gal. 0. 75			
1510	11.91	4.382	0.93	<del>                                     </del>	-160.0	0.75			
1513	11.56	4,478	0.96	7.10	-138,0	1			
1517	11.66	4.464	0.94	7.08	-142.1	1			
1520	11.49	4.466	1.07	7.09	-128,2	1			
1524	11.46	4,473	1.13	7.10	-123.6				
1528	11.36	4,481	1.01	7.09	-118.0				
1533							Samples Collected		
Analyt	ical Paramet	ters (include a	analysis n	nethod a	and nun	nber and type of san	nple containers)		
		BTEX per EP.	A Method 8	3021 (3 40	mL Vials	w/ HCl preserve)			
	TF	PH C6-C36 per l	EPA Metho	d 8015B (	(2 40mL \	Vials w/ HCl preserve)			
	Т	PH C6-C36 per	EPA Metho	od 8015B	(40mL Vi	al w/ no preservative)			
	Di	isposal of Purg	ed Water:						
Collec	cted Samples	Stored on Ice	in Cooler:	Yes					
	Chain of Cu	stody Record (	Complete:	Yes					
		Analytical La	aboratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipme	ent Used Duri	ing Sampling:	Keck Water	Level or	Keck Inte	erface Level, YSI Water	Quality Meter		
	and New Disposable Bailer								
Notes/Com	ments:								

revised. 08/10/09

MON	ITORING W	ELL SAMPLI	NG REC	ORD	Animas Environmental Services			
Mon	itor Well No:	MW-	-4		6	324 E. Comanche, Farm	ington NM 87401	
						Tel. (505) 564-2281 Fax		
		Truck Station S			_	Project No.: AES 0902	<del></del>	
·		ounty, New Mexi			_	Date: <u>7-2 -</u>	12	
		Monitoring and	Sampling		Arrival Time: 1423			
	g Technician: e / No Purge:				- т.о	Air Temp: 40°   C. Elev. (ft): 706		
_	Diameter (in):		<u> </u>			ell Depth (ft):		
Initi	al D.T.W. (ft):		Time:			(taken at initial gauging	•	
		29.22	Time:	1425	5	(taken prior to purging	•	
	al D.T.W. (ft):	D.T.P.:	Time:		Th	(taken after sample col		
IT IV.						ickness:T	Ime:	
	ν	Vater Quality	Paramete	rs - Rec	orded D	Ouring Well Purging		
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations	
1430	13.04	4, 834	0,98	6.92	-67.2	0,25 gal.		
14 33	2.59	4.882	1.00	6.93	-42.2	0.75		
1437	11,22	4.840	1.21	7.05	-22.5	1,25		
1440	10.84	4.884	1.10	7.06	-70,6	1. 25		
1443	10.53	4,921	1,03	7.05	-19.3	1. 25		
1446	10.28	4,941	0,99	7.05	-17.7	1.25		
14849	10.27	4.927	1.02	7.02	-11.3	1. 25		
1454							Samples	
							Collected	
Analyt	ical Parame	ters (include a	analysis n	nethod a	and nun	nber and type of sar	nple containers)	
		BTEX per EP	A Method 8	021 (3 40	mL Vials	s w/ HCl preserve)		
	TI	PH C6-C36 per I	EPA Metho	d 8015B	(2 40mL	Vials w/ HCl preserve)		
	Т	PH C6-C36 per	EPA Metho	d 8015B	(40mL V	ial w/ no preservative)		
		isposal of Purg	•				<u> </u>	
Colle	•	Stored on Ice	•					
	Chain of Cu	stody Record (	Complete:	Yes				
		Analytical La	boratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM	
Equipm	ent Used Dur	ing Sampling: <u> </u>	Keck Water	Level or	Keck Int	erface Level, YSI Water	Quality Meter	
	and New Disposable Bailer							
Notes/Com	ments:							
	<del></del>							
		<u> </u>						

<del>revised: 00/10/0</del>9

MONI	MONITORING WELL SAMPLING RECORD					Animas Environmental Services			
Mon	itor Well No:	MW	-8		6	24 E. Comanche, Farmi	ington NM 87401		
					]	Tel. (505) 564-2281 Fax	(505) 324-2022		
		Truck Station S				Project No.: AES 0902			
		ounty, New Mexi Monitoring and			- ,	Date: 2-27-			
	Technician:		Sampling		Arrival Time: <u>1337</u> Air Temp: <u> </u>				
	e / No Purge:		ie		- т.о	T.O.C. Elev. (ft): 7063.27			
Well	Diameter (in):	2				ell Depth (ft): 44	1.1		
	al D.T.W. (ft):		Time:			(taken at initial gauging			
	m D.T.W. (ft): al D.T.W. (ft):		_ Time: _ Time:	1339	1	(taken prior to purging taken after sample col	•		
	APL Present:		- D.T.W	J.:	Thi	ickness:T	-		
						Ouring Well Purging			
	1	T	1	TS - Nec	T : :	PURGED VOLUME	<u> </u>		
<b>-</b>	Temp	Conductivity	1		ORP		Notes/Observations		
Time	(deg C)	(µS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observations		
1348	13.94	4.352	1.59	7.02	-148.8	3777			
1351	13.29	4.193	1,20	6.86	-158.5	0,75			
1355	13.26	4.485	1.01	6.96	-142.4	1.25			
1359	12.71	4.531	0.86	6.96	-135.8				
1405	17.56	4.440	0.98		-126.6	1,25			
1408	12.27	4.467	1.38	6.95		1.25			
1412	12.21	4.500	0.88	6.96	-116,0	1.25			
1417							Samples Collected		
Analyti	ical Paramet	ters (include a	analysis n	nethod a	and nun	nber and type of san	nple containers)		
		BTEX per EP	A Method 8	3021 (3 40	mL Vials	s w/ HCl preserve)			
	TI	PH C6-C36 per	EPA Metho	d 8015B	(2 40mL )	Vials w/ HCl preserve)			
	T	PH C6-C36 per	EPA Metho	od 8015B	(40mL V	ial w/ no preservative)			
	Di	isposal of Purg	jed Water:						
Collec	cted Samples	Stored on Ice	in Cooler:	Yes					
	Chain of Cu	ıstody Record (	Complete:	Yes					
		Analytical La	aboratory:	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque, NM		
Equipmo	ent Used Dur	ing Sampling:	Keck Water	r Level or	Keck Int	erface Level, YSI Water	Quality Meter		
		and	New Dispos	sable Bail	er				
Notes/Comments:									
	!								

revised: 00/10/09

MON	ITORING W	ELL SAMPL	ING REC	ORD	Animas Environmental Services					
Mon	itor Well No:	MW	<b>-</b> 9		624 E. Comanche, Farmington NM 87401					
						Tel. (505) 564-2281 Fax	<u> </u>			
		Truck Station S			_	Project No.: AES 0902				
4		ounty, New Mexi Monitoring and		<del></del>	Date: <u>2-21-12</u> Arrival Time:					
	g Technician:		Jamping		- '	Air Temp: 40°F				
	e / No Purge:	Purg	е		T.O.C. Elev. (ft): 7062.6					
	Diameter (in):			_	Total Well Depth (ft): 39.15					
Confir	al D.T.W. (ft);	Z9.39	Time: Time:	162	,	(taken at initial gauging (taken prior to purging				
	al D.T.W. (ft):		Time:	142	<u> </u>	(taken after sample col				
If NAPL Present: D.T.P.: D.T.W.:							ime:			
	V	Vater Quality	Paramete	rs - Rec	orded D	Ouring Well Purging				
	Temp Conductivity DO			ORP	PURGED VOLUME					
Time	(deg C)	(µS) (ms)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations			
1634	12.22	4,089	2.31	7.02	-109.2	0,25 gal.				
1638	12.13	4.242	2:36	6.97	-121.0	1				
1642	11.90	4, 234	1.72	6.96	-123.1					
1646	11.82	4.246	1.55	6,96	-124,8					
1650	11.87	4.239	1.46	6.95	-128.6					
1654	11,89	4,241	1,37	6.95	-127.0	l				
1659							Saules			
							Collected			
							ranks to the state of the state			
Analyt	ical Parame	ters (include a	analysis n	nethod a	and nun	nber and type of san	nple containers)			
		BTEX per EP	A Method 8	021 (3 40	mL Vials	s w/ HCl preserve)				
· · · · · · · · · · · · · · · · · · ·		PH C6-C36 per l	EPA Metho	d 8015B	(2 40mL '	Vials w/ HCl preserve)				
· ·	T	PH C6-C36 per	EPA Metho	d 8015B	(40mL V	ial w/ no preservative)				
		isposal of Purg	-							
Colle	cted Samples	Stored on Ice	in Cooler:	Yes						
	Chain of Cu	stody Record (	-							
			-			al Analysis Laboratory, A				
Equipm	ent Used Dur					erface Level, YSI Water	Quality Meter			
	and New Disposable Bailer									
Notes/Com	lotes/Comments:									
	<del></del>	· · · · · · · · · · · · · · · · · · ·								
	,				<u></u>					
		···								

revised: 08/10/0

## Job/Jobsite Hazard Assessment Worksheet

INSTRUCTIONS: This Assessment should be completed at the outset of any new task or work location and again whenever location or conditions change sufficiently to suggest potential changes in hazards. A single Assessment may be appropriate for multiple days or even weeks of work provided no new hazards are introduced. It is the responsibility of the jobsite supervisor or lead worker to assure that all employees are made aware of all listed hazards and the associated mitigation plan and that they are provided with the opportunity to review the Assessment, including those employees who join the project after the Assessment has been completed.

Date of February 21, 2012	Assessment Conducted by:  Nathan Willis	Assessment Ross Kennemer
Type of Work GW Monitor Well Sampling	Employee(s) Performing Work  Nathan Willis	
Objective of Work Sample GW Monitor Wells	Employer Animas Environm	ental Services, LLC.
of Work Feb 21, 2012	Employer Address 624 East Comanche, Farm	nington, New Mexico 87401
1 BIVIG HWV 537/2009 Spill   1	Work Manager Ross Kennemer	Phone 1-505-486-4072

INVENTORY:

Mark each hazard YES or NO as a potential risk for the site and work defined above. Standard hazards consistently associated with the "Type of Work" identified above need not be specifically detailed on this form. It is not necessary to list loud noise, rough terrain, working near traffic, and so forth if those hazards are known and common hazards associated with the defined work type. However, any identified hazard that is NOT a standard component in the named "Type of Work" should be inventoried and mitigated below. In addition, any hazard not included in the inventory should be of such a standard nature that any member of the crew is able to explain the risks and safeguards inherent in that hazard.

482	The state of the s		P & Land	Potencial and the	L Common	Lagra.	## Personal Hazards	Set	1.75	## Environmental
YES	NO - ## Equipment Hazards	YES	NO	88 Utility Hazards	YES	NO.	(Cont.)	YES	NO.	Hazards (Cont.)
	11 Nearby Vehicular			23 Overhead Utility			34 Ladders/Elevated			45 Open Trench
	Traffic	<u> </u>	l	Contact			Platforms			/Entrapment
	12 Heavy Equip. Operation			24 Underground Utility Contact			35 Fall Hazard/ Working at Heights			46 Falling or Flying Debris
	13 Heavy Equip. Back/Run-over			25 Exposed Utility Lines			36 Other			47 Confined Space
	14 Heavy Equip. Tip-over /Roll-over			26 Exposed Electrical Wires/Components			37 Other			48 High Noise Level
	15 Heavy Equip. Pinch Points			27 Bottled gasses			38 Other			49 Weather: snow/ice, cold/hot
	16 Equip. Contact with Overhead Wires			28 Other			39 Other			50 Lighting (Darkness, Glare, Flash)
X	17 Vehicle Operation			29 Other			40 Other			51 Vegetation Hazards
	18 Vehicle with Trailer Operation			30 Other	YES	NO.	## Environmental. Hazards			52 Livestock, Wildlife, or Pet Hazards
	19 Other	YES	NO	## Personal Hazards	X		41 Chemical Exposure			53 Other
	20 Other	X		31 Twisting/Bending/ Awkward Positions	X		42 Flammable Gasses			54 Other
	21 Other			32 Lifting and Carrying	X		43 Flammable Liquids			55 Other
	22 Other	X		33 Slip/Trip/Fall Hazard or Unstable footing			44 Flammable Solids			56 Other

MITIGATIONS: For each hazard marked "YES", list the hazard # from above table in the left column and then describe the risk(s) identified. Across from each risk, list in the right column the steps taken\planned to mitigate that risk or safeguard the employee(s). Use additional sheets as needed.

**Identified Hazard** 

#### Mitigation/Safeguard

- 17) By Travel to and from site
- 31) Twisting / Bending / Fall hazard on whenhan
- 33) Slip / Trip / Fell hazards on uneven ground
- 41) Chenical & Exposure from sample viels
- 42+43) Natural gas + crude oil transfor

- 17) Defencive Priving, scat belts + speed limits while operating vehicle
- 31) Use Atoper Twist/bond techniceve avoid awknessed positions
- 33) Awarness of footing
- 41) Use laytex gloves and Safety glasses while sampling
- 42443) FRCS, no open fames



#### COVER LETTER

Thursday, December 01, 2011

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: BMG Highway 537 2009 Spill

Dear Debbie Watson:

Order No.: 1111785

Hall Environmental Analysis Laboratory, Inc. received 12 sample(s) on 11/18/2011 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued November 30, 2011

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab# NM9425 NM0901

AZ license # AZ0682

Date: 01-Dec-11

Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: Trip Blank

Lab Order:

1111785

**Collection Date:** 

Project:

BMG Highway 537 2009 Spill

**Date Received:** 11/18/2011

Lab ID:

1111785-01

Matrix: TRIP BLANK

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μ <b>g/L</b>	1	11/23/2011 11:08:12 PM
Toluene	ND	1.0	μg/L	1	11/23/2011 11:08:12 PM
Ethylbenzene	ND	1.0	μg/L	1	11/23/2011 11:08:12 PM
Xylenes, Total	ND	2.0	μg/L	1	11/23/2011 11:08:12 PM
Surr: 4-Bromofluorobenzene	109	76.5-115	%REC	1	11/23/2011 11:08:12 PM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 01-Dec-11
Analytical Report

CLIENT:

**Animas Environmental Services** 

Lab Order:

1111785

BMG Highway 537 2009 Spill

Project: Lab ID:

1111785-02

Client Sample ID: MW-1

Collection Date: 11/16/2011 4:50:00 PM

**Date Received:** 11/18/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	,					Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2011 12:30:16 AM
Motor Oil Range Organics (MRO)	NĐ	5.0		mg/L	1	11/21/2011 12:30:16 AM
Surr: DNOP	105	81.1-147		%REC	1	11/21/2011 12:30:16 AM
EPA METHOD 8015B: GASOLINE RAN	GE					Analyst: RAA
Gasoline Range Organics (GRO)	3.9	0.25		mg/L	5	11/23/2011 11:37:04 PM
Surr: BFB	112	65.4-141		%REC	5	11/23/2011 11:37:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	2700	50		μg/L	50	11/28/2011 12:52:07 PM
Toluene	ND	5.0		µg/L	5	11/23/2011 11:37:04 PM
Ethylbenzene	76	5.0		µg/L	5	11/23/2011 11:37:04 PM
Xylenes, Total	ND	10		μg/L	5	11/23/2011 11:37:04 PM
Surr: 4-Bromofluorobenzene	116	76.5-115	S	%REC	5	11/23/2011 11:37:04 PM

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
  - S Spike recovery outside accepted recovery limits

Page 2 of 12

Date: 01-Dec-11

Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: MW-2

Lab Order:

1111785

mont onnipie 201 Mari 2

Project:

BMG Highway 537 2009 Spill

Collection Date: 11/16/2011 1:04:00 PM Date Received: 11/18/2011

Lab ID:

1111785-03

Matrix: AQUEOUS

					_	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2011 1:38:46 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2011 1:38:46 AM
Surr: DNOP	104	81.1-147		%REC	1	11/21/2011 1:38:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/24/2011 1:32:10 AM
Surr: BFB	97.4	65.4-141		%REC	1	11/24/2011 1:32:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		μg/L	1	11/24/2011 1:32:10 AM
Toluene	ND	1.0		μg/L	1	11/24/2011 1:32:10 AM
Ethylbenzene	ND	1.0		μg/L	1	11/24/2011 1:32:10 AM
Xylenes, Total	ND	2.0		μg/L	1	11/24/2011 1:32:10 AM
Surr: 4-Bromofluorobenzene	109	76.5-115		%REC	1	11/24/2011 1:32:10 AM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 01-Dec-11 Analytical Report

**CLIENT:** 

**Animas Environmental Services** 

BMG Highway 537 2009 Spill

Lab Order:

1111785

Client Sample ID: MW-3

Collection Date: 11/16/2011 3:43:00 PM

Date Received: 11/18/2011

Matrix: AQUEOUS

Project: Lab ID:

1111785-04

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE				·····		Analyst: JB
Diesel Range Organics (DRO)	3.3	1.0		mg/L	1	11/21/2011 2:12:58 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2011 2:12:58 AM
Surr: DNOP	102	81.1-147		%REC	1	11/21/2011 2:12:58 AM
EPA METHOD 8015B: GASOLINE RANGE	<b>.</b>					Analyst: RAA
Gasoline Range Organics (GRO)	0.46	0.050		mg/L	1	11/24/2011 3:27:31 AM
Surr: BFB	165	65.4-141	S	%REC	1	11/24/2011 3:27:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	63	1.0		μg/L	1	11/24/2011 3:27:31 AM
Toluene	ND	1.0		μg/L	1	11/24/2011 3:27:31 AM
Ethylbenzene	6.0	1.0		μg/L	1	11/24/2011 3:27:31 AM
Xylenes, Total	ND	2.0		μg/L	1	11/24/2011 3:27:31 AM
Surr: 4-Bromofluorobenzene	123	76.5-115	S	%REC	1	11/24/2011 3:27:31 AM

- Value exceeds Maximum Contaminant Level
- Estimated value  $\mathbf{E}$
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
  - Spike recovery outside accepted recovery limits

Date: 01-Dec-11
Analytical Report

CLIENT:

**Animas Environmental Services** 

Client Sample ID: MW-4

Lab Order:

1111785

Collection Date: 11/16/2011 12:28:00 PM

Project:

BMG Highway 537 2009 Spill

Date Received: 11/18/2011

Lab ID:

1111785-05

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: JB
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	11/21/2011 2:47:10 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	11/21/2011 2:47:10 AM
Surr: DNOP	105	81.1-147	%REC	1	11/21/2011 2:47:10 AM
EPA METHOD 8015B: GASOLINE RANGE	<b>=</b>				Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	11/24/2011 5:51:34 AM
Surr: BFB	98.6	65.4-141	%REC	1	11/24/2011 5:51:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	. 1	11/24/2011 5:51:34 AM
Toluene	ND	1.0	µg/L	1	11/24/2011 5:51:34 AM
Ethylbenzene	ND	1.0	μg/L	1	11/24/2011 5:51:34 AM
Xylenes, Total	ND	2.0	μg/L	1	11/24/2011 5:51:34 AM
Surr: 4-Bromofluorobenzene	111	76.5-115	%REC	1	11/24/2011 5:51:34 AM

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 01-Dec-11
Analytical Report

**CLIENT:** 

Animas Environmental Services

Lab Order:

1111785

BMG Highway 537 2009 Spill

Project: Lab ID:

1111785-06

Client Sample ID: MW-5

Collection Date: 11/16/2011 11:56:00 AM

Date Received: 11/18/2011 Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: JB
Diesel Range Organics (DRO)	NĐ	1.0	mg/L	1	11/21/2011 3:21:33 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	11/21/2011 3:21:33 AM
Surr: DNOP	104	81.1-147	%REC	1	11/21/2011 3:21:33 AM
EPA METHOD 8015B: GASOLINE RAN	GE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	11/24/2011 6:20:17 AM
Surr: BFB	98.2	65.4-141	%REC	1	11/24/2011 6:20:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	1	11/24/2011 6:20:17 AM
Toluene	ND	1.0	μg/L	1	11/24/2011 6:20:17 AM
Ethylbenzene	ND	1.0	μg/L	1	11/24/2011 6:20:17 AM
Xylenes, Total	ND	2.0	μg/L	1	11/24/2011 6:20:17 AM
Surr: 4-Bromofluorobenzene	112	76.5-115	%REC	1	11/24/2011 6:20:17 AM

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 01-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Lab Order:

1111785

Project:

BMG Highway 537 2009 Spill

Lab ID:

1111785-07

Client Sample ID: MW-6

Collection Date: 11/16/2011 2:37:00 PM

**Date Received:** 11/18/2011

Matrix: AQUEOUS

Analyses	Result	PQL (	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: JB
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	11/21/2011 3:56:12 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	11/21/2011 3:56:12 AM
Surr: DNOP	109	81.1-147	%REC	1	11/21/2011 3:56:12 AM
EPA METHOD 8015B: GASOLINE RANG	E	4.1			Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	11/24/2011 6:49:09 AM
Surr: BFB	98.4	65.4-141	%REC	1	11/24/2011 6:49:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	1	11/24/2011 6:49:09 AM
Toluene	ND	1.0	µg/L	1	11/24/2011 6:49:09 AM
Ethylbenzene	ND	1.0	μg/L	1	11/24/2011 6:49:09 AM
Xylenes, Total	ND	2.0	μg/L	1	11/24/2011 6:49:09 AM
Surr: 4-Bromofluorobenzene	111	76.5-115	%REC	1	11/24/2011 6:49:09 AM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
  - S Spike recovery outside accepted recovery limits

Date: 01-Dec-11
Analytical Report

**CLIENT:** 

**Animas Environmental Services** 

Lab Order: 1111785

Project:

BMG Highway 537 2009 Spill

Lab ID:

1111785-08

Client Sample ID: MW-7

Collection Date: 11/16/2011 2:05:00 PM

**Date Received:** 11/18/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE				· · · · · · · · · · · · · · · · · · ·		Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2011 4:30:52 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2011 4:30:52 AM
Surr: DNOP	105	81.1-147		%REC	1	11/21/2011 4:30:52 AM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/24/2011 7:17:57 AM
Surr: BFB	97.9	65.4-141		%REC	1	11/24/2011 7:17:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		μg/L	1	11/24/2011 7:17:57 AM
Toluene	ND	1.0		μg/L	1	11/24/2011 7:17:57 AM
Ethylbenzene	ND	1.0		μg/L	1	11/24/2011 7:17:57 AM
Xylenes, Total	ND	2.0		µg/L.	1	11/24/2011 7:17:57 AM
Surr: 4-Bromofluorobenzene	111	76.5-115		%REC	1	11/24/2011 7:17:57 AM

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 01-Dec-11 Analytical Report

**CLIENT:** 

Animas Environmental Services

Client Sample ID: MW-8

Lab Order:

1111785

Project:

Collection Date: 11/16/2011 3:11:00 PM

BMG Highway 537 2009 Spill

Date Received: 11/18/2011

1111785-09 Lab ID:

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2011 5:05:51 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2011 5:05:51 AM
Surr: DNOP	110	81.1-147		%REC	1	11/21/2011 5:05:51 AM
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: RAA
Gasoline Range Organics (GRO)	0.17	0.050		mg/L	1	11/24/2011 7:46:47 AM
Surr: BFB	116	65.4-141		%REC	1	11/24/2011 7:46:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	1.5	1.0		µg/L	1	11/24/2011 7:46:47 AM
Toluene	ND	1.0		μg/L	1	11/24/2011 7:46:47 AM
Ethylbenzene	ND	1.0		µg/L	1	11/24/2011 7:46:47 AM
Xylenes, Total	ND	2.0		µg/L	1	11/24/2011 7:46:47 AM
Surr: 4-Bromofluorobenzene	113	76.5-115		%REC	1	11/24/2011 7:46:47 AM

- Value exceeds Maximum Contaminant Level
- Estimated value Ε
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
  - Spike recovery outside accepted recovery limits

**Date:** 01-Dec-11 Analytical Report

CLIENT:

**Animas Environmental Services** 

Lab Order:

1111785

Client Sample ID: MW-9

Collection Date: 11/16/2011 4:14:00 PM

Project:

BMG Highway 537 2009 Spill

Date Received: 11/18/2011

Lab ID:

1111785-10

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: JB
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	11/21/2011 5:40:28 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	11/21/2011 5:40:28 AM
Surr: DNOP	106	81.1-147	%REC	1	11/21/2011 5:40:28 AM
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: RAA
Gasoline Range Organics (GRO)	0.57	0.25	mg/L	5	11/24/2011 8:15:34 AM
Surr: BFB	104	65.4-141	%REC	5	11/24/2011 8:15:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	200	5.0	μg/L	5	11/24/2011 8:15:34 AM
Toluene	ND	5.0	µg/L	5	11/24/2011 8:15:34 AM
Ethylbenzene	9.6	5.0	μg/L	5	11/24/2011 8:15:34 AM
Xylenes, Total	ND	10	μg/L	5	11/24/2011 8:15:34 AM
Surr: 4-Bromofluorobenzene	113	76.5-115	%REC	5	11/24/2011 8:15:34 AM

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

Date: 01-Dec-11
Analytical Report

CLIENT:

**Animas Environmental Services** 

Lab Order:

1111785

BMG Highway 537 2009 Spill

Project: Lab ID:

1111785-11

Client Sample ID: MW-10

Collection Date: 11/16/2011 1:33:00 PM

**Date Received:** 11/18/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2011 6:15:09 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2011 6:15:09 AM
Surr: DNOP	104	81.1-147		%REC	1	11/21/2011 6:15:09 AM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/24/2011 9:13:03 AM
Surr: BFB	97.9	65.4-141		%REC	1	11/24/2011 9:13:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		μg/L	1	11/24/2011 9:13:03 AM
Toluene	ND	1.0		μg/Ľ	1 1	11/24/2011 9:13:03 AM
Ethylbenzene	ND	1.0		μg/L	1	11/24/2011 9:13:03 AM
Xylenes, Total	ND	2.0		μg/L	1	11/24/2011 9:13:03 AM
Surr: 4-Bromofluorobenzene	110	76.5-115		%REC	1	11/24/2011 9:13:03 AM

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
  - S Spike recovery outside accepted recovery limits

Date: 01-Dec-11
Analytical Report

CLIENT:

Animas Environmental Services

Client Sample ID: MW-11

Lab Order:

1111785

Collection Date: 11/16/2011 11:10:00 AM

Project:

BMG Highway 537 2009 Spill

Date Received: 11/18/2011

Lab ID:

1111785-12

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2011 6:49:49 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2011 6:49:49 AM
Surr: DNOP	113	81.1-147		%REC	1	11/21/2011 6:49:49 AM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/24/2011 9:41:49 AM
Surr: BFB	98.1	65.4-141		%REC	1	11/24/2011 9:41:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		μg/L	1	11/24/2011 9:41:49 AM
Toluene	ND	1.0		μg/L	1	11/24/2011 9:41:49 AM
Ethylbenzene	ND	1.0		μ <b>g</b> /L	1	11/24/2011 9:41:49 AM
Xylenes, Total	ND	2.0		μg/L	1	11/24/2011 9:41:49 AM
Surr: 4-Bromofluorobenzene	110	76.5-115		%REC	1	11/24/2011 9:41:49 AM

#### Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
  - S Spike recovery outside accepted recovery limits

Page 12 of 12

Client:

Animas Environmental Services

Project: BMG Highway 537 2009 Spill

Work Order:

1111785

Analyte	Result	Units	PQL	SPK Va S	PK ref	%Rec Lo	owLimit Hi	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B; D Sample ID: MB-29438	lesel Range	MBLK				Batch ID:	29438	Analysis	Date:	11/20/2011	7:55:51 PM
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	ND ND	mg/L mg/L	1.0 5.0					·			
Sample ID: LCS-29438		LCS				Batch ID:	29438	Analysis	Date:	11/20/2011	8:30:16 PM
Diesel Range Organics (DRO) Sample ID: LCSD-29438	5.115	mg/L LCSD	1.0	5	0	102 Batch ID:	74 <b>2943</b> 8	157 Analysis	Date:	11/20/2011	9:04:34 PM
Diesel Range Organics (DRO)	5.386	mg/L	1.0	5	0	108	74	157	5.17	23	
Method: EPA Method 8015B: G	asoline Ran	ige .									
Sample ID: 1111785-03A MSD		MSD				Batch ID:	R49269	Analysis	Date:	11/24/2011	2:29:52 AM
Gasoline Range Organics (GRO) Sample ID: 5ML-RB	0.4664	mg/L <i>MBLK</i>	0.050	0.5	0	93.3 Batch ID:	66.1 <b>R49269</b>	127 Analysis	34.3 Date:	15.5 11/23/2011	R 8:43:59 PM
Gasoline Range Organics (GRO) Sample ID: 2.5UG GRO LCS	ND	mg/L LCS	0.050			Batch ID:	R49269	Analysis	Date:	11/23/2011	7:46:23 PM
Gasoline Range Organics (GRO) Sample ID: 1111785-03A MS	0.5348	mg/L <i>MS</i>	0.050	0.5	0	107 Batch ID:	92.1 <b>R49269</b>	117 Analysis	Date:	11/24/2011	2:01:02 AM
Gasoline Range Organics (GRO)	0.3300	mg/L	0.050	0.5	0	66.0	66.1	127			S

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

Client:

**Animas Environmental Services** 

Project:

BMG Highway 537 2009 Spill

Work Order:

1111785

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec L	owLimit Hi	ghLimit %RP	D RPDLimit	Qual
Method: EPA Method 8021B:	/olatiles									
Sample ID: 1111785-02A MSD		MSD				Batch ID:	R49269	Analysis Date:	11/24/2011 1	2:34:37 AN
Benzene	1547	μg/L	5.0	100	1578	-31.7	76.6	119 10.5	16.4	SE
Toluene	83.17	μg/L	5.0	100	0	83.2	77.3	118 10.9	13.9	
Ethylbenzene	153.6	μg/L	5.0	100	76.26	77.4	76.6	114 11.9	13.5	
Xylenes, Totai	243.1	μg/L	10	300	0	81.0	82	113 12.6		S
Sample ID: 5ML-RB		MBLK				Batch ID:	R49269	Analysis Date:	11/23/2011	8:43:59 PN
Benzene	ND	μg/L	1.0							
Toluene	ND	μg/L	1.0							
Ethylbenzene	ND	μg/L	1.0							
Xylenes, Total	ND	µg/L	2.0							
Sample ID: b 9		MBLK				Batch ID:	R49292	Analysis Date:	11/28/2011	1:20:50 PM
Benzene	ND	μg/L	1.0							
Toluene	ND	μg/L	1.0							
Ethylbenzene	ND	μg/L	1.0							
Xylenes, Total	ND	µg/L	2.0							
Sample ID: 100NG BTEX LCS		LCS				Batch ID:	R49269	Analysis Date:	11/23/2011	8:15:12 PM
Benzene	20.66	µg/L	1.0	20	0	103	80	120		
Toluene	21.14	μg/L	1.0	20	0.4726	103	80	120		
Ethylbenzene	20.94	μg/L	1.0	20	0.4846	102	80	120		
Xylenes, Total	62.87	μg/L	2.0	60	1.012	103	80	120		
Sample ID: 100NG BTEX LCS		LCS	•			Batch ID:	R49292	Analysis Date:	11/28/2011 1	1:02:39 PM
Benzene	21.68	μg/L	1.0	20	0.4742	106	80	120		
Toluene	21.66	μg/L	1.0	20	0	108	80	120		
Ethylbenzene	21.76	μg/L	1.0	20	0	109	80	120		
Xylenes, Total	65.36	μg/L	2.0	60	0	109	80	120		
Sample ID: 1111785-02A MS		MS				Batch ID:	R49269	Analysis Date:	11/24/2011 1	2:05:47 AM
Benzene	1718	µg/L	5.0	100	1578	139	76.6	119		SE
Toluene	92.79	μg/L	5.0	100	0	92.8	77.3	118		
Ethylbenzene	173.0	µg/L	5.0	100	76.26	96.7	76.6	114		
Xylenes, Total	275.9	μg/L	10	300	0	92.0	82	113		

Qual	ifiers:

E Estimated value

ND Not Detected at the Reporting Limit

NC Non-Chlorinated

R RPD outside accepted recovery limits

Page 2

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

IATMINING CIVING TIVE	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request						TPH 8015 (GRO, DRC	×	× ×	\ \ \ \ \	× ×	メン	ブ ×	X X	××	× ×	X X		X	Remarks:		1636 moster Haster / part / Mars
					-							- 1	2	Ν	Ţ	\$	}	۲	>	. 2	(1)	מ	721	Date Time   F	Date Time	11/2/1/2/12
Time:	Rush	ö	BMG HWY 537 2009 SPILL			ager:		Son	Nathan Willis		Preservative Type	豆	5 - HCl 1 - Non	5 - HCl 1 - Non	5 - HCi	5 - HCl 1 - Non	5 - HCl 1 - Non	5 - HCi 1 - Non	5 HCI 1 - Non	5-HCl 1-Non	5 - HCI 1 - Non	5 - HCi 1 - Non	5-HCI	A. 1. h.		and
Turn-Around	(X Standard	Project Name:	BMG HWY	Project #:	AES 090201	Project Manager:		Debbie Watson	Sampler:		Container Type and #	Glass 2 - 40 mL	Glass 6 - 40 mL	Glass 6 - 40 mL	Glass 6 - 40 mi	Glass 6.40 mL	Glass 6 - 40 mL	Glass 6 - 40 ml	Glass 6 - 40 m	Glass 6-40.ml	Glass 6 - 40 mi	Glass 640 m	Glass B40 m	Received by:	י פד	Y
Chain-of-Custody Record	Animas Environmental Services		Mailing Address 624 E Comanche Farmington NM		2281	2022		☐ Level 4 (Full Validation)			Sample Request ID	Trip Blank	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	WW-9	MW-10	MW-11	d by:	d by:	the Water
of-Cu	s Environn		624 E Cor	87401	505-564-2281	505-324-2022			□ Other		Matrix	H ₂ O	H ₂ O	н,о	O²H	O²H	Н₂О	H ₂ O	H ₂ O	H,O	H ₂ O	OžH	H ₂ O	Relinguished by	Relinquished by:	Trust.
hain	Animas		Address		#	email or Fax#:	QA/QC Package:	dard	itation: AP	□ EDD (Type)	Time		1650	1304	1543	1228	1156	1437	1405	121	H9]	[333	110	Time:	Time:	1638
J	Client:		Mailing		Phone #	email	QA/QC	区 Standard	Accreditation:		Date		11-9/-11	\		_							-1	Date:	Date:	11/11/



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

February 29, 2012

Debbie Watson Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: BMG HWY 537 2009 SPILL OrderNo.: 1202828

#### Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/24/2012 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1202828

Date Reported: 2/29/2012

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Project: BMG HWY 537 2009 SPILL

**Lab ID:** 1202828-001

Client Sample ID: MW-1

**Collection Date:** 2/21/2012 4:15:00 PM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	E				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	2/28/2012 9:48:15 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	2/28/2012 9:48:15 AM
Surr: DNOP	103	61.3-164	%REC	1	2/28/2012 9:48:15 AM
<b>EPA METHOD 8015B: GASOLINE RAI</b>	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	1.2	0.50	mg/L	10	2/28/2012 1:37:34 PM
Surr: BFB	101	69.3-120	%REC	10	2/28/2012 1:37:34 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	360	10	μg/L	10	2/28/2012 1:37:34 PM
Toluene	ND	1.0	μg/L	1	2/28/2012 2:06:18 PM
Ethylbenzene	54	10	µg/L	10	2/28/2012 1:37:34 PM
Xylenes, Total	ND	2.0	μg/L	1	2/28/2012 2:06:18 PM
Surr: 4-Bromofluorobenzene	114	76.5-115	%REC	1	2/28/2012 2:06:18 PM

Matrix: AQUEOUS

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 1 of 11

Lab Order 1202828

Date Reported: 2/29/2012

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

BMG HWY 537 2009 SPILL

**Lab ID:** 1202828-002

**Project:** 

Client Sample ID: MW-3

**Collection Date:** 2/21/2012 3:33:00 PM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E				Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	2/28/2012 10:09:59 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	2/28/2012 10:09:59 AM
Surr: DNOP	104	61.3-164	%REC	1	2/28/2012 10:09:59 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	0.18	0.050	mg/L	1	2/25/2012 2:06:16 AM
Surr: BFB	114	69.3-120	%REC	1	2/25/2012 2:06:16 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	4.8	1.0	μg/L	1	2/25/2012 2:06:16 AM
Toluene	ND	1.0	μg/L	1	2/25/2012 2:06:16 AM
Ethylbenzene	ND	1.0	μg/L	1	2/25/2012 2:06:16 AM
Xylenes, Total	ND	2.0	μg/L	1	2/25/2012 2:06:16 AM
Surr: 4-Bromofluorobenzene	112	76.5-115	%REC	1	2/25/2012 2:06:16 AM

Matrix: AQUEOUS

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1202828

Date Reported: 2/29/2012

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

BMG HWY 537 2009 SPILL Project:

Lab ID:

1202828-003

Client Sample ID: MW-4

Collection Date: 2/21/2012 2:54:00 PM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	<b>E</b>	**********			Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	2/28/2012 10:53:22 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	2/28/2012 10:53:22 AM
Surr: DNOP	102	61.3-164	%REC	1	2/28/2012 10:53:22 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	2/25/2012 2:35:06 AM
Surr: BFB	100	69.3-120	%REC	1	2/25/2012 2:35:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	1	2/25/2012 2:35:06 AM
Toluene	ND	1.0	μg/L	1	2/25/2012 2:35:06 AM
Ethylbenzene	ND	1.0	μg/L	1	2/25/2012 2:35:06 AM
Xylenes, Total	ND	2.0	μg/L	1	2/25/2012 2:35:06 AM
Surr: 4-Bromofluorobenzene	110	76.5-115	%REC	1	2/25/2012 2:35:06 AM

Matrix: AQUEOUS

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

- R RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit

Lab Order 1202828

Date Reported: 2/29/2012

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

**Project:** BMG HWY 537 2009 SPILL

**Lab ID:** 1202828-004

Client Sample ID: MW-8

**Collection Date:** 2/21/2012 2:17:00 PM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	2/28/2012 11:15:03 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	2/28/2012 11:15:03 AM
Surr: DNOP	102	61.3-164	%REC	1	2/28/2012 11:15:03 AM
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	2/25/2012 3:03:52 AM
Surr: BFB	102	69.3-120	%REC	1	2/25/2012 3:03:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	1	2/25/2012 3:03:52 AM
Toluene	ND	1.0	μg/L	1	2/25/2012 3:03:52 AM
Ethylbenzene	ND	1.0	μg/L	1	2/25/2012 3:03:52 AM
Xylenes, Total	ND	2.0	μg/L	1	2/25/2012 3:03:52 AM
Surr: 4-Bromofluorobenzene	110	76.5-115	%REC	1	2/25/2012 3:03:52 AM

Matrix: AQUEOUS

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 4 of 11

Lab Order 1202828

Date Reported: 2/29/2012

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

**Project:** BMG HWY 537 2009 SPILL

Lab ID:

1202828-005

Client Sample ID: MW-9

Collection Date: 2/21/2012 4:59:00 PM

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG						Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/28/2012 11:36:41 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/28/2012 11:36:41 AM
Surr: DNOP	104	61.3-164		%REC	1	2/28/2012 11:36:41 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: RAA
Gasoline Range Organics (GRO)	0.30	0.050		mg/L	1	2/28/2012 12:05:36 AM
Surr: BFB	126	69.3-120	S	%REC	1	2/28/2012 12:05:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	120	5.0		μg/L	5	2/25/2012 3:32:35 AM
Toluene	ND	1.0		μg/L	1	2/28/2012 12:05:36 AM
Ethylbenzene	4.2	1.0		µg/L	1	2/28/2012 12:05:36 AM
Xylenes, Total	ND	2.0		μg/L	1	2/28/2012 12:05:36 AM
Surr: 4-Bromofluorobenzene	121	76.5-115	S	%REC	1	2/28/2012 12:05:36 AM

Matrix: AQUEOUS

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Reporting Detection Limit

Page 5 of 11

Lab Order 1202828

Date Reported: 2/29/2012

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

BMG HWY 537 2009 SPILL

Client Sample ID: Trip Blank

**Collection Date:** 

**Lab ID:** 1202828-006

**Project:** 

Matrix: TRIP BLANK

Received Date: 2/24/2012 10:05:00 AM

Analyses	Result RL Qual Un		al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: <b>RAA</b>
Benzene	ND	1.0	μg/L	1	2/25/2012 4:01:20 AM
Toluene	ND	1.0	μg/L	1	2/25/2012 4:01:20 AM
Ethylbenzene	ND	1.0	μg/L	1	2/25/2012 4:01:20 AM
Xylenes, Total	ND	2.0	μg/L	1	2/25/2012 4:01:20 AM
Surr: 4-Bromofluorobenzene	108	76.5-115	%REC	1	2/25/2012 4:01:20 AM

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1202828

29-Feb-12

Client:

Animas Environmental Services

**Project:** 

BMG HWY 537 2009 SPILL

Sample ID MB-854	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015B: Diese	l Range		
Client ID: PBW	Batch	ID: 85	4	F	RunNo: 1	148				
Prep Date: 2/27/2012	Analysis D	ate: 2/	28/2012	S	SeqNo: 3	2739	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		102	61.3	164			
Sample ID LCS-854	SampT	ype: LC	s	TestCode: EPA Method 8015B: Diesel						
Client ID: LCSW	Batch	ID: 85	4	F	RunNo: 1	148				
Prep Date: 2/27/2012	Analysis D	ate: 2/	28/2012	S	SeqNo: 3	2915	Units: mg/L			
				ODK D-41/-1	2/ DEC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LOWLITTIL	riigneimit	/01 N D	TAT DEITHE	Quai
Analyte Diesel Range Organics (DRO)	Result 5.0	PQL 1.0	SPK value 5.000	O SPK Ref Val	101	74	157	701X1 D	N DLIIII	Guar

Sample ID LCSD-854	SampT	SD	TestCode: EPA Method 8015B: Diesel Range							
Client ID: LCSS02	Batch	ID: 85	4	F	RunNo: 1					
Prep Date: 2/27/2012	Analysis D	ate: 2/	28/2012	S	SeqNo: 3	2916	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	123	74	157	19.5	23	
Surr: DNOP	0.51		0.5000		102	61.3	164	0	0	

#### Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 7 of 11

^{*/}X Value exceeds Maximum Contaminant Level.

Client:

### Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: 1202828

29-Feb-12

BMG HWY 537 2009 SPILL Project: Sample ID 5ML-RB SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range Client ID: PBW Batch ID: R1140 RunNo: 1140 Prep Date: Analysis Date: 2/24/2012 SeqNo: 32520 Units: mg/L **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) ND 0.050 97.4 69.3 120 Surr: BFB 19 20.00 Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015B: Gasoline Range Client ID: LCSW Batch ID: R1140 RunNo: 1140 Prep Date: Analysis Date: 2/24/2012 SeqNo: 32524 Units: mg/L %RPD Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 0.57 0.050 0.5000 114 101 123 Surr: BFB 21 20.00 105 69.3 120 Sample ID 1202820-001A MS SampType: MS TestCode: EPA Method 8015B: Gasoline Range Client ID: **BatchQC** Batch ID: R1140 RunNo: 1140 Prep Date: Analysis Date: 2/24/2012 SeqNo: 32525 Units: mg/L Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 0.53 0.050 0.5000 106 75.4 121 69.3 Surr: BFB 20.00 106 120 21 Sample ID 1202820-001A MSD TestCode: EPA Method 8015B: Gasoline Range SampType: MSD Client ID: **BatchQC** Batch ID: R1140 RunNo: 1140 Units: mg/L Prep Date: Analysis Date: 2/24/2012 SeqNo: 32526 Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 75.4 Gasoline Range Organics (GRO) 0.53 0.050 107 0.338 10.5 0.5000 121 Surr: BFB 20.00 107 69.3 120 0 21 Sample ID 5ML-RB TestCode: EPA Method 8015B: Gasoline Range SampType: MBLK Client ID: Batch ID: R1157 RunNo: 1157 Prep Date: Analysis Date: 2/27/2012 SeqNo: 33060 Units: mg/L SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 0.050 Surr: BFB 20 20.00 99.6 120 69.3 Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015B: Gasoline Range Client ID: LCSW Batch ID: R1157 RunNo: 1157

#### Qualifiers:

R

Prep Date:

Surr: BFB

Analyte

Analysis Date: 2/27/2012

**PQL** 

0.050

SPK value SPK Ref Val

0.5000

20.00

Result

0.58

22

Ε Value above quantitation range

Gasoline Range Organics (GRO)

- RPD outside accepted recovery limits
- J Analyte detected below quantitation limits
- R Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н

LowLimit

101

69.3

Units: mg/L

HighLimit

123

120

%RPD

Not Detected at the Reporting Limit ND

SeqNo: 33061

116

108

%REC

0

Reporting Detection Limit

Page 8 of 11

**RPDLimit** 

Qual

^{*/}X Value exceeds Maximum Contaminant Level.

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1202828

29-Feb-12

Client:

Animas Environmental Services

Project:

BMG HWY 537 2009 SPILL

Sample ID 5ML-RB

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

LowLimit

Client ID: PBW Batch ID: R1174

RunNo: 1174

Analysis Date: 2/28/2012

Units: mg/L

Prep Date:

**PQL** 

0.050

SeqNo: 33419

Analyte

Result ND SPK value SPK Ref Val %REC HighLimit

**RPDLimit** Qual

Gasoline Range Organics (GRO)

19

20.00

94.5

69.3 120

Surr: BFB

Sample ID 2.5UG GRO LCS

SampType: LCS

RunNo: 1174

TestCode: EPA Method 8015B: Gasoline Range

Client ID: Prep Date:

LCSW Batch ID: R1174

Units: mg/L

Analyte

Result

Analysis Date: 2/28/2012

SeqNo: 33423 %REC

LowLimit HighLimit

%RPD

%RPD

**RPDLimit** 

Qual

Gasoline Range Organics (GRO) Surr: BFB

PQL 0.57 0.050 SPK value SPK Ref Val 0.5000

113 105

101 69.3 123

21 20.00

0

120

## Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- Analyte detected below quantitation limits RPD outside accepted recovery limits
- ND Not Detected at the Reporting Limit
- Н Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1202828

29-Feb-12

Client:	Animas Environmental Services
Project:	BMG HWY 537 2009 SPILL

Sample ID 5ML-RB	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch	Batch ID: R1140			RunNo: 1	140						
Prep Date:	Analysis D	)ate: <b>2</b> /	24/2012	SeqNo: <b>32619</b>			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	2.0										
Surr: 4-Bromofluorobenzene	21		20.00		107	76.5	115					

Sample ID 100NG BTEX LC	<b>S</b> SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	ID: LCSW Batch ID: R1140			RunNo: 1140							
Prep Date:	Analysis D	ate: 2/	24/2012	S	SeqNo: 3	2623	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	99.2	80	120				
Toluene	20	1.0	20.00	0	102	80	120				
Ethylbenzene	20	1.0	20.00	0	102	80	120				
Xylenes, Total	61	2.0	60.00	0	102	80	120				
Surr: 4-Bromofluorobenzene	22		20.00		110	76.5	115				

Sample ID 1202820-001A MS	SampT	уре: <b>М</b> \$	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BatchQC	Batch	1D: <b>R</b> 1	140	F	RunNo: 1	140				
Prep Date:	Analysis D	ate: <b>2</b> /	24/2012	8	SeqNo: 3	2624	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.7	70.1	118			
Toluene	20	1.0	20.00	0	100	72.3	117			
Ethylbenzene	20	1.0	20.00	0	100	73.5	117			
Xylenes, Total	61	2.0	60.00	0	101	73.1	119			
Surr: 4-Bromofluorobenzene	22		20.00		112	76.5	115			

Sample ID 1202820-001A N	<b>ISD</b> SampTy	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: BatchQC	Batch	ID: <b>R1</b>	140	F	RunNo: 1	140				
Prep Date:	Analysis Da	ate: 2/	24/2012	٤	SeqNo: 3	2625	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.7	70.1	118	6.35	16.4	
Toluene	19	1.0	20.00	0	94.4	72.3	117	6.01	13.9	
Ethylbenzene	19	1.0	20.00	0	94.4	73.5	117	5.97	13.5	
Xylenes, Total	56	2.0	60.00	0	94.1	73.1	119	6.96	12.9	
Surr: 4-Bromofluorobenzene	22		20.00		112	76.5	115	0	0	

#### Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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^{*/}X Value exceeds Maximum Contaminant Level.

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1202828

29-Feb-12

Client:

Animas Environmental Services

Project:

BMG HWY 537 2009 SPILL

Sample ID 5ML-RB	SampT	ype: <b>M</b> E	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBW	Batch	h ID: <b>R1</b>	157	F	RunNo: 1	157				
Prep Date:	Analysis D	)ate: <b>2</b> /	27/2012	\$	SeqNo: 3	3082	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	1.0					-			
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	22		20.00		110	76.5	115			
Sample ID 100NG BTEX LC	S SampT	ype: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	tiles	10 111	****
Client ID: LCSW	Batch	n ID: <b>R1</b>	157	F	RunNo: 1	157				
Prop Data:	Analysis F	oto: 2/	27/2042		Soable: 3	2000	Unite:/I			

Campio is Tourio BIEX E	ounp	. , po		100	icodac. E	Ametrica	OULID. Voiat	iicə		
Client ID: LCSW	Bato	h ID: <b>R1</b>	157	F	RunNo: 1	157				
Prep Date:	Analysis	Date: <b>2</b> /	27/2012	5	SeqNo: 3	3089	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	23		20.00		114	76.5	115			

Sample ID 5ml-rb 7	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBW	Batch	ID: <b>R1</b>	174	F	RunNo: 1	174				
Prep Date:	Analysis D	ate: 2/	28/2012	S	SeqNo: 3	3451	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	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	76.5	115			

Sample ID 100NG BTEX L	CS SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batch	1D: <b>R1</b>	174	F	RunNo: 1	174				
Prep Date:	Analysis D	ate: 2/	28/2012	5	SeqNo: 3	3455	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	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	21	1.0	20.00	0	106	80	120			
Xylenes, Total	64	2.0	60.00	0	107	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	76.5	115			

#### Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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^{*/}X Value exceeds Maximum Contaminant Level.



Hall Environmental Analysis Laborator) 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Animas Environmental	W	ork Ord	ler N	umb	er: '	1202828	
Received by/date:	2/24/12						
Logged By: Lindsay Mangin	2/24/2012 10:05:00 AM			l	1	4HADO	
Completed By: Lindsay Mangin	2/24/2012 1:02:08 PM				<del>/</del>	gri <del>go</del>	
Reviewed By: 2/20/02				ι			
Chain of Custody						,	
1. Were seals intact?		Yes		No		Not Present <b>✓</b>	
2. Is Chain of Custody complete?		Yes	V	No		Not Present	
3. How was the sample delivered?		<u>Couri</u>	<u>er</u>				
<u>Log In</u>							•
4. Coolers are present? (see 19. for cooler	specific information)	Yes	¥	No	<u> </u>	NA 🗆	
5. Was an attempt made to cool the sample	les?	Yes	V	No	·	NA 🗔	
6. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes	<b>V</b>	No		NA 🗌	
7. Sample(s) in proper container(s)?		Yes	<b>✓</b>	No			
8. Sufficient sample volume for indicated to	est(s)?	Yes	<b>✓</b>	No			
9. Are samples (except VOA and ONG) pro	operly preserved?	Yes	✓	No		•	
10. Was preservative added to bottles?		Yes		No	<b>✓</b>	NA 🗆	
11. VOA vials have zero headspace?		Yes	<b>✓</b>	No		No VOA Vials	
12. Were any sample containers received be	roken?	Yes		No	<b>√</b>	`	
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody	<b>)</b>	Yes	✓	No		# of preserved bottles checked for pH:	
14. Are matrices correctly identified on Chai	n of Custody?	Yes		No			unless noted)
15. Is it clear what analyses were requested	?	Yes	_		_	Adjusted?	
16. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	¥	No	LJ	Checked by:	
Special Handling (if applicable)						Ollecked by.	
17. Was client notified of all discrepancies w	vith this order?	Yes		No [		NA 🔽	
Person Notified:	Date:						
By Whom:	Via:	eMail	ı [	Ph	one	Fax In Person	
Regarding:			illiakin i wa	****	alak a arabi 1 Mila		
Client Instructions:							
18. Additional remarks:							
19. Cooler Information							
Cooler No Temp °C Condition		eal Dat	e	5	Signe	ed By	
1 1.1 Good	Yes						

)	75	- 1	מוסיסאו אוסיסומ						PATER SANCTON MENTAL			•	
ent:	Animas	s Enviror	Animas Environmental Services	XStandard	□ Rush			ANA	ANALYSIS LABORATORY	ABO	ZATO	ARY ORY	
				Project Name:				www.h	www.hallenvironmental.com	ntal.com			
ailing	Address	ailing Address 624 E Comanche		BMG HWY 537	7 2009 SPILL	-	49	4901 Hawkins NE	- Albuquerq	Albuquerque, NM 87109	109		
		Farming	87401	Project #:			ĭ	Tel. 505-345-3975		505-345-4107			
one #:	. #	505-564-2281	-2281	AES 090201					Analysis Request	quest			
nail or	ail or Fax#:	505-324-2022		Project Manager:	jer:								
Vace	/QC Package:												
Standard	ard		□ Level 4 (Full Validation)		Debbie Watson	tson							
creditati	creditation: NELAP	□ Other		Sampler:			C36)	(0)					(N 14
EDD	EDD (Type)						- 90	IW '	,				o Y)
)ate	Time	Matrix	Sample Request ID	<u>.</u> #	Preservative Type		BTEX 8021 (GRO, DRO	(еко, рко					səlddu8 riA
7	1615	H ₂ O	MW-1	Glass 6 - 40 mL	5 - HCi 1 - Non		<del></del>	×					
	1553	H ₂ O	MW-3	Glass 6 - 40 mL	5 - HCl 1 - Non	2-	×	×					
	H9H	H ₂ O	MW-4	Glass 6 - 40 mL	5 - HCI 1 - Non	N	×	×					
	和中	H ₂ O	MW-8	Glass 6 - 40 mL	5 - HCI 1 - Non	7-1	×	×					
~	1659	H ₂ O	6-WW	Glass 6 - 40 mL	5 - HCI 1 - Non	-5	×	×					
		H ₂ O	Trip Blank	Glass 2 - 40 mL	нсі	)-	×						
e:	Time:	Relinquished by	ed by:	Received by:	بعداهم (رادر	Date Time	Remarks	;;					
	Time:	1º ~	led by:	Received by:	3	Date	. \						
	"gecessor"	≠₹	ا نُو	- ganled fr ally ann	chart 1 hhorator	This contra will	The shift.	ab had	- Non hatter - Arcale & Thursday	- Man harr	a tenial &	pp.	7