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___2009 - 2011____

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March 9, 2012

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the 4th Quarter 2011 Evaporation Pond Groundwater Sampling, Treatment Zone Soil Sampling, and Vadose Zone Soil Sampling for BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

As part of 4th Quarter 2011 sampling, Animas Environmental Services, LLC (AES) completed: 1) evaporation pond quarterly groundwater monitoring and sampling, 2) treatment zone sampling, and 3) vadose zone sampling on January 3, 2012, at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off of Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

Note that the January 2012 sampling event was originally scheduled in December 2011 as the 4th quarter sampling event. However, due to inclement weather, the sampling was delayed until January 3, 2012. Also, in consultation with the New Mexico Oil Conservation Division (NMOCD), the facility will continue with quarterly sampling and withdraws the request for a permit modification submitted with the report dated January 4, 2012.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.1 Evaporation Pond Sampling Background

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the

evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner in late September 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Evaporation Pond Groundwater Monitoring and Sampling

AES personnel completed 4th quarter 2011 groundwater monitoring and sampling of the evaporation pond monitor wells on January 3, 2012. Groundwater samples were collected from monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6 °C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – USEPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – USEPA Method 8015B;
- Chlorides – USEPA Method 300.0; and
- Total Dissolved Solids (TDS) – Standard Method 2540C.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 8.33°C (IW) to 11.95°C (MW-4). Conductivity readings were between 0.874 mS/cm (MW-3) and 187.0 mS/cm (IW). Field pH readings ranged from 5.89 to 8.54. Groundwater ORP ranged from 262.2 mV (MW-2) to 383.8 mV (MW-1). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected for the 4th quarter 2011 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, below applicable New Mexico Water Quality Control Commission (WQCC) standards. All monitor wells also had TPH concentrations below laboratory detection limits, with the exception of the interstitial well, which had a reported concentration of 0.19 mg/L GRO and 5.4 mg/L DRO.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled but have remained relatively stable. The results above laboratory detection limits have been summarized as follows:

- TPH-GRO: IW (0.19 mg/L);
- TPH-DRO: IW (5.4 mg/L);
- Chlorides: IW (140,000 mg/L), MW-1 (12 mg/L), MW-2 (29 mg/L), MW-3 (23 mg/L), and MW-4 (19 mg/L);
- TDS: IW (172,000 mg/L), MW-1 (820 mg/L), MW-2 (760 mg/L), MW-3 (720 mg/L), and MW-4 (1,100 mg/L);

The analytical results for the groundwater samples collected for the 4th quarter 2011 sampling event are presented in Tables 2 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Treatment Zone Monitoring

As required by the NMOCD permit for this facility and specified by NMOCD in correspondence dated June 3, 2011, one composite soil sample consisting of four discrete samples was collected from the treatment zone between depths of 0.5 and 1.5 feet below ground surface (bgs). The composite sample was composed of two samples from Cell # 1, one sample from Cell # 2, and one sample from Cell # 3, the zones which are being tilled on a frequent basis. Cell #4 was not included in the composite sample because it is currently not in use.

A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, the sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to Hall. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

The composite sample from the treatment zone was analyzed for the following:

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

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES observations of the treatment cells at the time of sample collection, Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Treatment Cell #4 is not in use and therefore was not sampled. Results are summarized as follows:

- BTEX concentrations were reported below the laboratory detection limit;
- TPH concentrations were reported at 92 mg/kg DRO and 100 mg/kg MRO;
- The chloride concentration was reported at 21 mg/kg, which is below the applicable NMOCD threshold of 500 mg/kg.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented in Table 3 and on Figure 2. Laboratory reports are presented in Appendix A.

3.0 Vadose Zone Monitoring

As required by the NMOCD permit for this facility and specified in NMOCD correspondence dated June 3, 2011, one random sample was collected for laboratory analysis from each individual cell (Cells #1 through #4) at 3.5 feet below the native ground surface. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6 °C until delivered to Hall. A Chain of Custody was completed at the time the samples were collected.

3.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

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

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

3.2 Vadose Zone Analytical Results

Soil samples collected from the vadose zone within the four treatment cells are summarized as follows:

- Benzene and BTEX - below laboratory detection limits in each cell;
- TPH - below the laboratory detection limits in Cell #1, Cell #2 and Cell #4. Cell #3 - 39 mg/kg DRO;
- Chlorides - Cell #1 (3.4 mg/kg) and Cell #3 (2.2 mg/kg);

The locations of all samples, as well as analytical results (BTEX, TPH, and chlorides), are presented on Figure 3. Laboratory analytical results are summarized in Table 4, and laboratory reports are presented in Appendix A.

4.0 Conclusions and Recommendations

AES personnel conducted groundwater and interstitial well sampling, along with landfarm sampling, at the BMG Surface Waste Management Facility for the 4th quarter 2011 in January 2012. Based on the results of the January 2012 sampling event, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH.

Groundwater samples from the interstitial well (IW) also had concentrations below laboratory detection limits for BTEX. The interstitial well (IW) had reported concentrations above laboratory detection limits for TPH-GRO (0.19 mg/L), TPH-DRO (5.4 mg/L), chloride (140,000 mg/L), and TDS (172,000 mg/L).

The treatment zone composite sample showed that BTEX concentrations were reported below laboratory detection limits and the NMOCD Rule 36 Threshold for BTEX (50

mg/kg) and benzene (10 mg/kg). The total TPH concentration was reported at 192 mg/kg.

Soil analytical results from vadose zone sampling included quarterly sampling for BTEX, TPH, and chlorides. BTEX concentrations were below laboratory detection limits in all cells sampled, and TPH results from all four cells remained below laboratory detection limits, with the exception of Cell #3 with 39 mg/kg DRO. Chloride concentrations above the laboratory detection limit were reported in Cell #1 (3.4 mg/kg) and Cell #3 (2.2 mg/kg). All cells remained below the NMOCD threshold of 500 mg/kg for chloride.

AES has scheduled the next quarterly sampling event of the evaporation pond monitor wells, treatment zone soils, and vadose zone soils to occur in March 2012.

If you have any questions regarding the site conditions, sampling results, or the request for permit modifications, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

Ross Kennemer
Sr. Project Manager

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Treatment Zone Soil BTEX, TPH, and Chlorides Analytical Results
Table 4. Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results

Figures

Figure 1. Location of BMG Evaporation Pond and Monitoring Wells and Contaminant Concentrations, 4th Quarter 2011

Figure 2. Treatment Zone Monitoring Locations and Contaminant Concentrations, 4th Quarter 2011

Figure 3. Vadose Zone Monitoring Locations and Contaminant Concentrations, 4th Quarter 2011

Appendices

Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

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TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (°C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
IW	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
IW	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
IW	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
IW	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
IW	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
IW	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
IW	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
IW	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
IW	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
IW	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
IW	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
IW	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
IW	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
IW	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
IW	3-Jan-12	TBS	9.70	8.33	187.0	0.31	5.89	308.1
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-1	12-Oct-10	TBS	39.32	12.16	0.892	3.66	7.33	142.8
MW-1	19-Jan-11	TBS	39.42	11.22	0.924	3.51	7.81	110.4
MW-1	28-Apr-11	TBS	39.51	12.80	0.901	4.07	NM	NM
MW-1	15-Jul-11	TBS	39.59	12.80	0.945	NM	7.08	175.8
MW-1	3-Jan-12	TBS	38.95	11.48	0.918	4.25	7.11	383.8
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (°C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0
MW-2	12-Oct-10	TBS	40.38	12.81	0.928	4.13	7.87	68.7
MW-2	19-Jan-11	TBS	40.49	10.51	0.888	3.22	7.96	122.7
MW-2	28-Apr-11	TBS	40.57	12.49	0.902	NM	NM	NM
MW-2	29-Jul-11	TBS	40.68	12.29	0.908	NM	7.44	90.7
MW-2	3-Jan-12	TBS	40.91	10.67	0.997	3.21	8.54	262.2
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-3	12-Oct-10	TBS	39.61	12.85	0.834	3.86	7.59	130.8
MW-3	19-Jan-11	TBS	39.71	10.94	0.870	5.11	7.78	132.8
MW-3	28-Apr-11	TBS	39.80	14.60	0.874	NM	NM	NM
MW-3	15-Jul-11	TBS	39.89	12.62	0.867	NM	7.22	152.5
MW-3	3-Jan-12	TBS	40.13	11.53	0.874	3.52	7.50	303.1
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (°C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1
MW-4	12-Oct-10	TBS	40.12	12.84	0.963	5.04	7.28	162.5
MW-4	19-Jan-11	TBS	40.23	11.66	0.997	6.95	7.65	53.4
MW-4	28-Apr-11	TBS	40.30	12.37	0.966	4.63	NM	NM
MW-4	15-Jul-11	TBS	40.41	13.65	0.992	NM	7.20	126.7
MW-4	3-Jan-12	TBS	40.71	11.95	0.959	5.55	7.54	364.5

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
IW	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
IW	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
IW	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
IW	30-Dec-08	NOT SAMPLED - LOW YIELD								
IW	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
IW	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
IW	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
IW	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
IW	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
IW	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
IW	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
IW	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
IW	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
IW	03-Jan-12	<2.0	<2.0	<2.0	<4.0	0.19	5.4	<5.0	140,000	172,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615
MW-1	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	643
MW-1	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	13	665
MW-1	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	13	705
MW-1	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	860
MW-1	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	820
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-2	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	615
MW-2	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	750
MW-2	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	40	790
MW-2	28-Jul-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	615

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-2	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	760
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-3	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	567
MW-3	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	27	630
MW-3	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	31	660
MW-3	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	670
MW-3	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	23	720
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700
MW-4	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	865
MW-4	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	690
MW-4	28-Apr-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	684
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830
MW-4	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	19	1,100

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Treatment Zone Soil BTEX, TPH, and Chlorides Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Composite Sample Locations*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			***8021B***				***8015***			***300***
		NMOCD Rule 36 Threshold			***50 BTEX (Benzene <10 ppm)***				***100/2,500***			***500***
Treatment Zone	#1	1)N 36° 23.383' W 106° 52.054' 2)N 36° 23.376' W 106° 51.943' 3)N 36° 23.341' W 106° 51.881' 4)N 36° 23.403' W 106° 52.002'	28-Jul-11	0.5	<1.0	<1.0	<1.0	<2.0	<100	**3,800**	**3,300**	8.8
Treatment Zone	#1	1)N 36° 23.358' W 106° 52.011' 2)N 36° 23.395' W 106° 51.925' 3)N 36° 23.362' W 106° 50.840' 4)N 36° 23.327' W 106° 51.932	3-Jan-12	1.5	<0.050	<0.050	<0.050	<0.10	<5.0	92	100	21.0

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

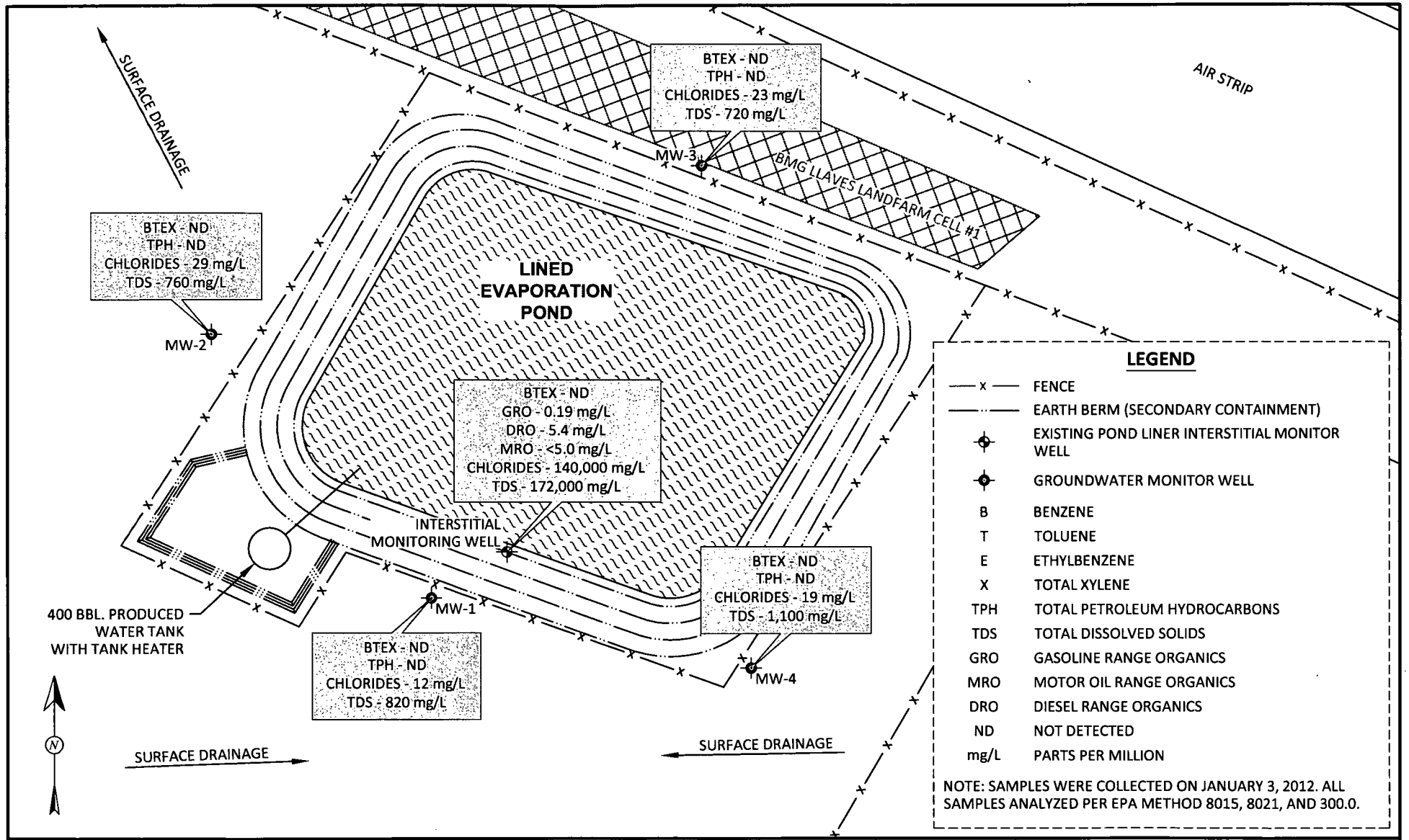
Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)	TPH MRO (C22-C32) (mg/kg)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			8015	300.0
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100			NE	500
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69	69	6
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74	74	48
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300	300	10
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140	140	22
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	18
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	<15
Cell #1	#1	N 36° 23.353' W 106° 51.999'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50	<50	<30
Cell #1	#1	N 36° 23.372' W 106° 52.051'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	22	50	50	54
Cell #1	#1	N 36° 23.336' W 106° 51.954'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	45
Cell #1 Vadose Zone	VZ-1	N 36° 23.357' W 106° 52.007'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	34	60	60	15
Cell #1 Vadose Zone	VZ-1	N 36° 23.378' W 106° 52.055'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	3.4
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160	160	8.3
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	16

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			**8015**	**300.0**
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	8.9
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	16
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310	310	6.0
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	<15
Cell #2	#2	N 36° 23.403' W 106° 51.943'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63	63	<30
Cell #2	#2	N 36° 23.405' W 106° 52.011'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	<15
Cell #2	#2	N 36° 23.384' W 106° 51.933'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36° 23.413' W 106° 51.982'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	21	<51	<51	<7.5
Cell #2 Vadose Zone	VZ-2	N 36° 23.406' W 106° 52.019'	3-Jan-12	3.5	<0.50	<0.50	<0.50	<1.0	<5.0	<9.9	<50	<50	<1.5
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	5.1
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	22
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51	51	28
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	17

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)	TPH MRO (C22-C32) (mg/kg)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			8015	300.0
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	20
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	<15
Cell #3	#3	N 36° 23.353' W 106° 51.855'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	43
Cell #3	#3	N 36° 23.352' W 106° 51.911'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	<15
Cell #3	#3	N 36° 23.351' W 106° 51.866'	28-Apr-11	2	<0.25	<0.25	<0.25	<0.50	<25	3,400	5,300	5,300	7.9
Cell #3 Vadose Zone	VZ-3	N 36° 23.358' W 106° 51.860'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<50	6.3
Cell #3 Vadose Zone	VZ-3	N 36° 23.334' W 106° 51.864'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	39	<50	<50	2.2
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-	-	
Cell #4 Vadose Zone	VZ-4	N 36° 23.358' W 106° 51.787'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.8	<49	<49	<7.5
Cell #4 Vadose Zone	VZ-4	N 36° 23.341' W 106° 51.736'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<51	<1.5



SCALE
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(1 INCH = 50 FEET)

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** January 17, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** January 23, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** March 9, 2012

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, 4th QUARTER 2011

NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND CONTAMINANT CONCENTRATIONS, 4th QUARTER 2011
NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

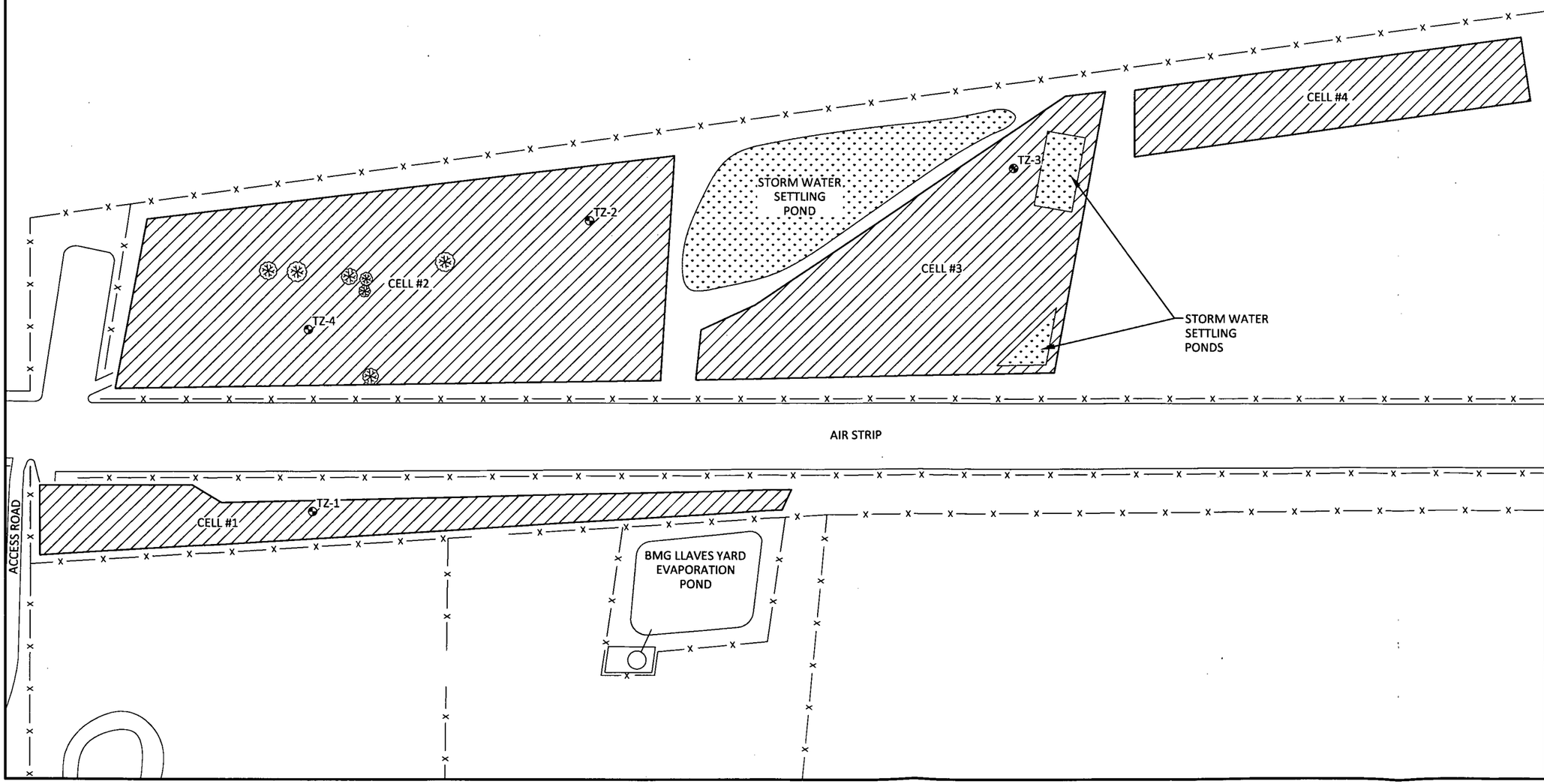
DRAWN BY: N. Willis	**DATE DRAWN:** April 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** January 17, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** January 17, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** March 9, 2012

SUMMARY OF 4th QUARTER 2011 TREATMENT ZONE MONITORING JANUARY 2012

SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO) C6-C10 (mg/kg)	TPH C10-C22 (mg/kg)	TPH C22-C32 (mg/kg)	Chloride (mg/Kg)
01/03/12	<0.050	<0.050	<0.050	<0.10	<5.0	92	100	21

TREATMENT ZONE MONITORING LOCATIONS JANUARY 2012

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft.)
TZ-1	N 36°23.3583785' W 106°52.0114576'	1.5
TZ-2	N 36°23.395259' W 106°51.9252925'	1.5
TZ-3	N 36°23.3624505' W 106°50.839780'	1.5
TZ-4	N 36°23.326569' W 106°51.93160783'	1.5



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SUMMARY OF 4th QUARTER 2011
VADOSE ZONE MONITORING
JANUARY 2012

LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	VZ-1	N 36°23.37779' W 106°52.0548391'	01/03/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	3.4
CELL #2	VZ-2	N 36°23.406456' W 106°52.018847'	01/03/12	3.5	<0.50	<0.50	<0.50	<1.0	<5.0	<9.9	<50	<1.5
CELL #3	VZ-3	N 36°23.3338926' W 106°51.8635515'	01/03/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	39	<50	2.2
CELL #4	VZ-4	N 36°23.3406913' W 106°51.7356335'	01/03/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<1.5

VADOSE ZONE SAMPLES WERE COLLECTED BETWEEN 3ft. TO 4ft. BELOW NATIVE SOIL SURFACE.

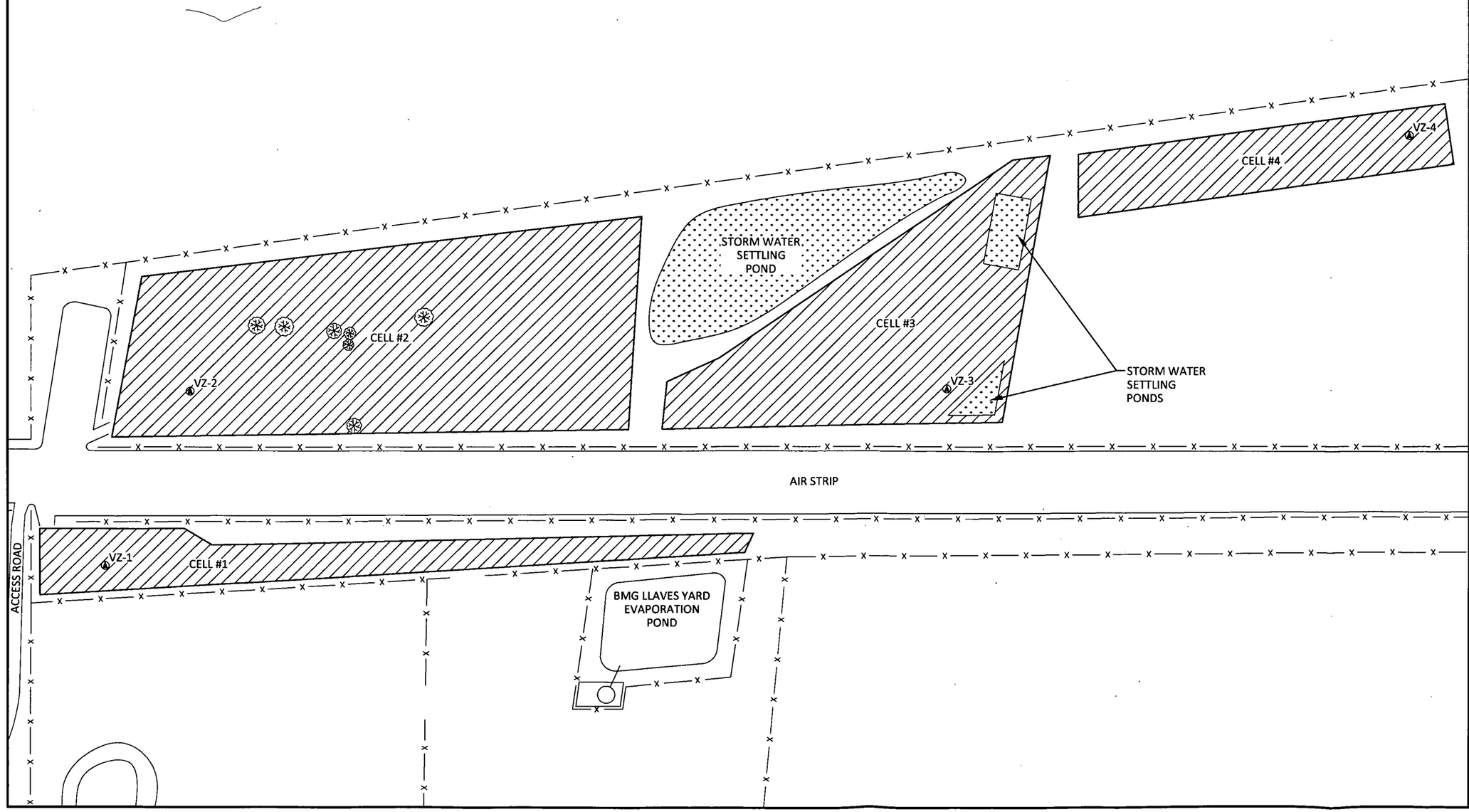

FIGURE 3

BENSON-MONTIN-GREER VADOSE ZONE MONITORING LOCATIONS AND CONTAMINANT CONCENTRATIONS, 4th QUARTER 2011

NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
N. Willis	April 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** January 5, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** January 5, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** March 9, 2012

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. Wills

Project No.: AES 040605
Date: 1-3-12
Time: 1208
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1238		39.95		
MW-2	1312		40.91		
MW-3	1329		40.13		
MW-4	1214		40.71		
Interstitial	1254		9.70		

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 38.95 **Time:** 1238 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-3-12
Arrival Time: 1235
Air Temp: 36°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1242	11.44	0.914	3.68	7.19	380.4	0.25 gal.	
1245	11.48	0.918	4.25	7.11	383.8	0.5	
							Very low Yield
							↓
1248							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.91 **Time:** 1312 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): ↓ **Time:** ↓ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-3-12
Arrival Time: 1308
Air Temp: 36°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1315	10.40	2.675	3.35	8.20	257.7	0.25 gal.	
1317	10.67	0.997	3.21	8.54	262.2	0.5	Very
						~~0.5~~	low Yield
							↓
1319	~						Samples
							Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.13 **Time:** 1329 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-3-12
Arrival Time: 1327
Air Temp: 36°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1331	11.52	0.871	3.82	7.56	296.4	0.25 gal	
1332	11.53	0.874	3.52	7.50	303.1	0.5	Very low yield
1333							
1333							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.71 **Time:** 1214 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): **Time:** *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 040605
Date: 1-3-12
Arrival Time: 1208
Air Temp: 35°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
~~1214~~ 1221	11.95	1.028	6.05	7.90	353.7	0.25 gal.	
1223	11.95	0.959	5.55	7.54	364.5	0.5	
							Very Low Yield ↓
1225							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: **Interstitial Well**

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.70 **Time:** 1254 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-3-12
Arrival Time: 1250
Air Temp: 36°
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 12.1

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1258	8.33	187.0	0.31	5.89	308.1	0.25 gal.	
1302							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

January 16, 2012

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: BMG Landfarm/Evaporation Pond OrderNo.: 1201122

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 12 sample(s) on 1/5/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1201122**
Date Reported: **1/16/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TRIP BLANK
Project: BMG Landfarm/Evaporation Pond
Collection Date:
Lab ID: 1201122-001
Matrix: TRIP BLANK
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/6/2012 3:11:15 PM
Benzene	ND	1.0		µg/L	1	1/6/2012 3:11:15 PM
Toluene	ND	1.0		µg/L	1	1/6/2012 3:11:15 PM
Ethylbenzene	ND	1.0		µg/L	1	1/6/2012 3:11:15 PM
Xylenes, Total	ND	2.0		µg/L	1	1/6/2012 3:11:15 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2012 3:11:15 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2012 3:11:15 PM
Surr: 4-Bromofluorobenzene	96.8	76.5-115		%REC	1	1/6/2012 3:11:15 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 12:48:00 PM
Lab ID: 1201122-002
Matrix: AQUEOUS
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/6/2012 6:03:38 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/6/2012 6:03:38 PM
Surr: DNOP	101	81.1-147		%REC	1	1/6/2012 6:03:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	1/6/2012 3:40:04 PM
Surr: BFB	93.4	69.3-120		%REC	2	1/6/2012 3:40:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	1/6/2012 3:40:04 PM
Toluene	ND	2.0		µg/L	2	1/6/2012 3:40:04 PM
Ethylbenzene	ND	2.0		µg/L	2	1/6/2012 3:40:04 PM
Xylenes, Total	ND	4.0		µg/L	2	1/6/2012 3:40:04 PM
Surr: 4-Bromofluorobenzene	98.8	76.5-115		%REC	2	1/6/2012 3:40:04 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	12	0.50		mg/L	1	1/6/2012 2:07:23 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	820	200		mg/L	1	1/10/2012 11:10:00 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 1:19:00 PM
Lab ID: 1201122-003
Matrix: AQUEOUS
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/6/2012 6:38:16 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/6/2012 6:38:16 PM
Surr: DNOP	99.0	81.1-147		%REC	1	1/6/2012 6:38:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	1/6/2012 5:35:26 PM
Surr: BFB	93.9	69.3-120		%REC	2	1/6/2012 5:35:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	1/6/2012 5:35:26 PM
Toluene	ND	2.0		µg/L	2	1/6/2012 5:35:26 PM
Ethylbenzene	ND	2.0		µg/L	2	1/6/2012 5:35:26 PM
Xylenes, Total	ND	4.0		µg/L	2	1/6/2012 5:35:26 PM
Surr: 4-Bromofluorobenzene	98.7	76.5-115		%REC	2	1/6/2012 5:35:26 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	29	10		mg/L	20	1/6/2012 2:44:38 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	760	200		mg/L	1	1/10/2012 11:10:00 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-3
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 1:33:00 PM
Lab ID: 1201122-004
Matrix: AQUEOUS
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/6/2012 7:12:56 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/6/2012 7:12:56 PM
Surr: DNOP	95.9	81.1-147		%REC	1	1/6/2012 7:12:56 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	1/6/2012 7:30:53 PM
Surr: BFB	94.2	69.3-120		%REC	2	1/6/2012 7:30:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	1/6/2012 7:30:53 PM
Toluene	ND	2.0		µg/L	2	1/6/2012 7:30:53 PM
Ethylbenzene	ND	2.0		µg/L	2	1/6/2012 7:30:53 PM
Xylenes, Total	ND	4.0		µg/L	2	1/6/2012 7:30:53 PM
Surr: 4-Bromofluorobenzene	98.9	76.5-115		%REC	2	1/6/2012 7:30:53 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	23	10		mg/L	20	1/6/2012 3:09:28 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	720	200		mg/L	1	1/10/2012 11:10:00 AM

Qualifiers:

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

Analytical Report
Lab Order **1201122**
Date Reported: **1/16/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-4
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 12:25:00 PM
Lab ID: 1201122-005
Matrix: AQUEOUS
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/6/2012 7:47:21 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/6/2012 7:47:21 PM
Surr: DNOP	100	81.1-147		%REC	1	1/6/2012 7:47:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	1/6/2012 7:59:42 PM
Surr: BFB	94.0	69.3-120		%REC	2	1/6/2012 7:59:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	1/6/2012 7:59:42 PM
Toluene	ND	2.0		µg/L	2	1/6/2012 7:59:42 PM
Ethylbenzene	ND	2.0		µg/L	2	1/6/2012 7:59:42 PM
Xylenes, Total	ND	4.0		µg/L	2	1/6/2012 7:59:42 PM
Surr: 4-Bromofluorobenzene	98.8	76.5-115		%REC	2	1/6/2012 7:59:42 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	19	10		mg/L	20	1/6/2012 4:23:55 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1,100	200		mg/L	1	1/10/2012 11:10:00 AM

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Interstitial Well
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 1:02:00 PM
Lab ID: 1201122-006
Matrix: AQUEOUS
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	5.4	1.0		mg/L	1	1/6/2012 8:21:52 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/6/2012 8:21:52 PM
Surr: DNOP	99.5	81.1-147		%REC	1	1/6/2012 8:21:52 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.19	0.10		mg/L	2	1/6/2012 8:28:30 PM
Surr: BFB	97.4	69.3-120		%REC	2	1/6/2012 8:28:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	1/6/2012 8:28:30 PM
Toluene	ND	2.0		µg/L	2	1/6/2012 8:28:30 PM
Ethylbenzene	ND	2.0		µg/L	2	1/6/2012 8:28:30 PM
Xylenes, Total	ND	4.0		µg/L	2	1/6/2012 8:28:30 PM
Surr: 4-Bromofluorobenzene	102	76.5-115		%REC	2	1/6/2012 8:28:30 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	140,000	5,000		mg/L	10000	1/10/2012 5:55:04 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	172,000	1,000		mg/L	1	1/10/2012 11:10:00 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Treatment Zone
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 11:55:00 AM
Lab ID: 1201122-007
Matrix: SOIL
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	92	9.9		mg/Kg	1	1/9/2012 7:54:12 AM
Motor Oil Range Organics (MRO)	100	50		mg/Kg	1	1/9/2012 7:54:12 AM
Surr: DNOP	96.0	77.4-131		%REC	1	1/9/2012 7:54:12 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2012 1:06:30 PM
Surr: BFB	120	69.7-121		%REC	1	1/6/2012 1:06:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	1/6/2012 1:06:30 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2012 1:06:30 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2012 1:06:30 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2012 1:06:30 PM
Surr: 4-Bromofluorobenzene	114	85.3-139		%REC	1	1/6/2012 1:06:30 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	21	1.5		mg/Kg	1	1/6/2012 9:04:04 PM

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 Vadose Zone
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 11:23:00 AM
Lab ID: 1201122-008
Matrix: SOIL
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/8/2012 5:15:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/8/2012 5:15:15 PM
Surr: DNOP	81.1	77.4-131		%REC	1	1/8/2012 5:15:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2012 1:36:42 PM
Surr: BFB	102	69.7-121		%REC	1	1/6/2012 1:36:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	1/6/2012 1:36:42 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2012 1:36:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2012 1:36:42 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2012 1:36:42 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	1/6/2012 1:36:42 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	3.4	1.5		mg/Kg	1	1/6/2012 9:38:52 PM

Qualifiers:

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

Analytical Report
Lab Order **1201122**
Date Reported: **1/16/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 Vadose Zone
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 10:59:00 AM
Lab ID: 1201122-009
Matrix: SOIL
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/8/2012 5:49:39 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/8/2012 5:49:39 PM
Surr: DNOP	85.2	77.4-131		%REC	1	1/8/2012 5:49:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2012 2:06:50 PM
Surr: BFB	84.9	69.7-121		%REC	1	1/6/2012 2:06:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.50		mg/Kg	1	1/6/2012 2:06:50 PM
Toluene	ND	0.50		mg/Kg	1	1/6/2012 2:06:50 PM
Ethylbenzene	ND	0.50		mg/Kg	1	1/6/2012 2:06:50 PM
Xylenes, Total	ND	1.0		mg/Kg	1	1/6/2012 2:06:50 PM
Surr: 4-Bromofluorobenzene	85.6	85.3-139		%REC	1	1/6/2012 2:06:50 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	1.5		mg/Kg	1	1/6/2012 10:13:42 PM

Qualifiers:

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

Analytical Report
Lab Order **1201122**
Date Reported: **1/16/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 Vadose Zone
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 10:12:00 AM
Lab ID: 1201122-010
Matrix: SOIL
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	39	10		mg/Kg	1	1/8/2012 6:23:46 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/8/2012 6:23:46 PM
Surr: DNOP	87.3	77.4-131		%REC	1	1/8/2012 6:23:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2012 2:37:15 PM
Surr: BFB	95.2	69.7-121		%REC	1	1/6/2012 2:37:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	1/6/2012 2:37:15 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2012 2:37:15 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2012 2:37:15 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2012 2:37:15 PM
Surr: 4-Bromofluorobenzene	94.1	85.3-139		%REC	1	1/6/2012 2:37:15 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	2.2	1.5		mg/Kg	1	1/6/2012 10:48:31 PM

Qualifiers:

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

Analytical Report
Lab Order **1201122**
Date Reported: **1/16/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 Vadose Zone
Project: BMG Landfarm/Evaporation Pond
Collection Date: 1/3/2012 9:30:00 AM
Lab ID: 1201122-011
Matrix: SOIL
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/8/2012 6:57:54 PM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	1/8/2012 6:57:54 PM
Surr: DNOP	85.4	77.4-131		%REC	1	1/8/2012 6:57:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2012 3:07:33 PM
Surr: BFB	101	69.7-121		%REC	1	1/6/2012 3:07:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	1/6/2012 3:07:33 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2012 3:07:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2012 3:07:33 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2012 3:07:33 PM
Surr: 4-Bromofluorobenzene	104	85.3-139		%REC	1	1/6/2012 3:07:33 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	1.5		mg/Kg	1	1/6/2012 11:58:10 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MEOH BLANK
Project: BMG Landfarm/Evaporation Pond
Collection Date:
Lab ID: 1201122-012
Matrix: MEOH BLAN
Received Date: 1/5/2012 2:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	1/6/2012 3:37:43 PM
Benzene	ND	0.050		mg/Kg	1	1/6/2012 3:37:43 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2012 3:37:43 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2012 3:37:43 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2012 3:37:43 PM
Surr: 4-Bromofluorobenzene	97.5	85.3-139		%REC	1	1/6/2012 3:37:43 PM

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **MB-165**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **165**	RunNo: **257**							
Prep Date: **1/6/2012**	Analysis Date: **1/6/2012**	SeqNo: **7945**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-165**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **165**	RunNo: **257**							
Prep Date: **1/6/2012**	Analysis Date: **1/6/2012**	SeqNo: **7946**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Sample ID: **1201142-001AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **165**	RunNo: **257**							
Prep Date: **1/6/2012**	Analysis Date: **1/6/2012**	SeqNo: **7948**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	23	1.5	15.00	9.330	88.9	74.6	118			

Sample ID: **1201142-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **165**	RunNo: **257**							
Prep Date: **1/6/2012**	Analysis Date: **1/6/2012**	SeqNo: **7949**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25	1.5	15.00	9.330	104	74.6	118	9.26	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R303**	RunNo: **303**
Prep Date:	Analysis Date: **1/10/2012**	SeqNo: **9242** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R303**	RunNo: **303**
Prep Date:	Analysis Date: **1/10/2012**	SeqNo: **9243** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.9	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services
Project: BMG Landfarm/Evaporation Pond

Sample ID: MB-147	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics						
Client ID: PBS	Batch ID: 147	RunNo: 239						
Prep Date: 1/5/2012	Analysis Date: 1/6/2012	SeqNo: 7492	Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		88.4	77.4	131			

Sample ID: LCS-147	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics						
Client ID: LCSS	Batch ID: 147	RunNo: 239						
Prep Date: 1/5/2012	Analysis Date: 1/6/2012	SeqNo: 7608	Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	77.4	131			

Sample ID: 1201041-001AMS	SampType: MS	TestCode: EPA Method 8015B: Diesel Range Organics						
Client ID: BatchQC	Batch ID: 147	RunNo: 239						
Prep Date: 1/5/2012	Analysis Date: 1/6/2012	SeqNo: 7641	Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		4.931		100	77.4	131			

Sample ID: 1201041-001AMSD	SampType: MSD	TestCode: EPA Method 8015B: Diesel Range Organics						
Client ID: BatchQC	Batch ID: 147	RunNo: 239						
Prep Date: 1/5/2012	Analysis Date: 1/6/2012	SeqNo: 7704	Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		4.878		91.6	77.4	131	0	0	

Sample ID: MB-162	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics						
Client ID: PBS	Batch ID: 162	RunNo: 255						
Prep Date: 1/6/2012	Analysis Date: 1/8/2012	SeqNo: 7852	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		82.9	77.4	131			

Sample ID: LCS-162	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics						
Client ID: LCSS	Batch ID: 162	RunNo: 255						
Prep Date: 1/6/2012	Analysis Date: 1/8/2012	SeqNo: 7854	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	73.6	62.7	139			
Surr: DNOP	4.5		5.000		90.5	77.4	131			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **MB-164**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **PBW**	Batch ID: **164**	RunNo: **239**
Prep Date: **1/6/2012**	Analysis Date: **1/6/2012**	SeqNo: **7830** 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		104	81.1	147			

Sample ID: **LCS-164**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSW**	Batch ID: **164**	RunNo: **239**
Prep Date: **1/6/2012**	Analysis Date: **1/6/2012**	SeqNo: **7831** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.9	1.0	5.000	0	119	74	157			
Surr: DNOP	0.54		0.5000		107	81.1	147			

Sample ID: **LCSD-164**	SampType: **LCSD**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSS02**	Batch ID: **164**	RunNo: **239**
Prep Date: **1/6/2012**	Analysis Date: **1/6/2012**	SeqNo: **7832** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.9	1.0	5.000	0	117	74	157	1.14	23	
Surr: DNOP	0.51		0.5000		102	81.1	147	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **5ML-RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **R265**	RunNo: **265**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8279** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1,000		94.8	69.7	121			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R265**	RunNo: **265**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8282** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	86.4	132			
Surr: BFB	1,000		1,000		99.7	69.7	121			

Sample ID: **1201122-007A MS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **Treatment Zone**	Batch ID: **R265**	RunNo: **265**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8283** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	2.936	100	72.4	149			
Surr: BFB	1,100		1,000		107	69.7	121			

Sample ID: **1201122-007A MSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **Treatment Zone**	Batch ID: **R265**	RunNo: **265**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8284** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	2.936	108	72.4	149	6.62	19.2	
Surr: BFB	1,200		1,000		117	69.7	121	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **5ML-RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R262**	RunNo: **262**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **11201** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		92.7	69.3	120			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R262**	RunNo: **262**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **11205** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.58	0.050	0.5000	0	117	81.8	120			
Surr: BFB	20		20.00		98.6	69.3	120			

Sample ID: **1201122-002A MS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-1**	Batch ID: **R262**	RunNo: **262**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **11206** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	114	75.4	121			
Surr: BFB	20		20.00		100	69.3	120			

Sample ID: **1201122-002A MSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-1**	Batch ID: **R262**	RunNo: **262**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **11207** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	107	75.4	121	5.54	10.5	
Surr: BFB	20		20.00		101	69.3	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **5ML-RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R265**	RunNo: **265**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8398** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	85.3	139			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R265**	RunNo: **265**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8401** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.2	0.10	1.000	0	122	65.5	229			
Benzene	1.0	0.050	1.000	0	105	83.3	107			
Toluene	1.0	0.050	1.000	0	104	74.3	115			
Ethylbenzene	1.0	0.050	1.000	0	102	80.9	122			
Xylenes, Total	3.2	0.10	3.000	0	105	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	85.3	139			

Sample ID: **1201142-001A MS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R265**	RunNo: **265**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8402** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.2	0.10	1.000	0	125	61.3	215			
Benzene	1.0	0.050	1.000	0.003852	100	67.2	113			
Toluene	0.98	0.050	1.000	0	98.4	62.1	116			
Ethylbenzene	1.0	0.050	1.000	0	104	67.9	127			
Xylenes, Total	3.3	0.10	3.000	0	109	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	85.3	139			

Sample ID: **1201142-001A MSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R265**	RunNo: **265**
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8403** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.2	0.10	1.000	0	123	61.3	215	1.36	19.6	
Benzene	1.0	0.050	1.000	0.003852	100	67.2	113	0.259	14.3	
Toluene	0.98	0.050	1.000	0	98.2	62.1	116	0.183	15.9	
Ethylbenzene	1.0	0.050	1.000	0	104	67.9	127	0.153	14.4	
Xylenes, Total	3.3	0.10	3.000	0	108	60.6	134	0.0461	12.6	
Surr: 4-Bromofluorobenzene	1.2		1.000		115	85.3	139	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201122

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **5ML-RB** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBW** Batch ID: **R262** RunNo: **262**

Prep Date: Analysis Date: **1/6/2012** SeqNo: **8203** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	19		20.00		97.3	76.5	115			

Sample ID: **100NG BTEX LCS** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSW** Batch ID: **R262** RunNo: **262**

Prep Date: Analysis Date: **1/6/2012** SeqNo: **8207** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	17	2.5	20.00	0	85.4	44.7	148			
Benzene	19	1.0	20.00	0	94.4	80	120			
Toluene	19	1.0	20.00	0	96.9	80	120			
Ethylbenzene	19	1.0	20.00	0	96.8	80	120			
Xylenes, Total	58	2.0	60.00	0	97.0	78.6	121			
1,2,4-Trimethylbenzene	18	1.0	20.00	0	92.4	75.1	120			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	96.2	76.4	122			
Surr: 4-Bromofluorobenzene	20		20.00		98.7	76.5	115			

Sample ID: **1201122-003A MS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **MW-2** Batch ID: **R262** RunNo: **262**

Prep Date: Analysis Date: **1/6/2012** SeqNo: **8208** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	38	5.0	40.00	0.4316	94.1	74.6	120			
Benzene	36	2.0	40.00	0	89.8	76.6	119			
Toluene	35	2.0	40.00	0	87.9	77.3	118			
Ethylbenzene	36	2.0	40.00	0	89.8	76.6	114			
Xylenes, Total	110	4.0	120.0	0	90.5	82	113			
1,2,4-Trimethylbenzene	35	2.0	40.00	0	86.9	69.2	110			
1,3,5-Trimethylbenzene	36	2.0	40.00	0	89.8	76.4	120			
Surr: 4-Bromofluorobenzene	42		40.00		104	76.5	115			

Sample ID: **1201122-003A MSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **MW-2** Batch ID: **R262** RunNo: **262**

Prep Date: Analysis Date: **1/6/2012** SeqNo: **8210** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **1201122-003A MSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**	
Client ID: **MW-2**	Batch ID: **R262**	RunNo: **262**	
Prep Date:	Analysis Date: **1/6/2012**	SeqNo: **8210**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	36	5.0	40.00	0.4316	88.1	74.6	120	6.46	15.2	
Benzene	34	2.0	40.00	0	85.2	76.6	119	5.27	16.4	
Toluene	35	2.0	40.00	0	87.3	77.3	118	0.697	13.9	
Ethylbenzene	35	2.0	40.00	0	87.4	76.6	114	2.74	13.5	
Xylenes, Total	110	4.0	120.0	0	87.6	82	113	3.20	12.9	
1,2,4-Trimethylbenzene	33	2.0	40.00	0	81.4	69.2	110	6.45	13.5	
1,3,5-Trimethylbenzene	34	2.0	40.00	0	85.6	76.4	120	4.82	13.7	
Surr: 4-Bromofluorobenzene	42		40.00		104	76.5	115	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1201122**

16-Jan-12

Client: Animas Environmental Services

Project: BMG Landfarm/Evaporation Pond

Sample ID: **MB-163**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **163**	RunNo: **288**
Prep Date: **1/6/2012**	Analysis Date: **1/10/2012**	SeqNo: **8793** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: **LCS-163**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **163**	RunNo: **288**
Prep Date: **1/6/2012**	Analysis Date: **1/10/2012**	SeqNo: **8794** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,020	20.0	1,000	7.000	101	80	120			

Sample ID: **1201105-003AMS**	SampType: **MS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **163**	RunNo: **288**
Prep Date: **1/6/2012**	Analysis Date: **1/10/2012**	SeqNo: **8801** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2,060	20.0	1,000	1,057	100	80	120			

Sample ID: **1201105-003AMSD**	SampType: **MSD**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **163**	RunNo: **288**
Prep Date: **1/6/2012**	Analysis Date: **1/10/2012**	SeqNo: **8802** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2,060	20.0	1,000	1,057	100	80	120	0.0486	20	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Receipt Checklist

Client Name Animas Environmental — Date and Time Receive 1/5/2012 2:35:00 PM

Work Order Numbe 1201122 — RcptNo: 1 — Received by Lindsay Mangin

Checklist Completed By: _____ — Checked by: _____

Completed Date: 1/5/2012 3:23:48 PM — Checked Date: _____

Carrier name Courier

Shipping cooler present and in acceptable condition?	Yes ✔	No	NA
Chain of custody present?	Yes ✔	No	
Chain of custody signed when relinquished and received?	Yes ✔	No	
Chain of custody agrees with sample labels?	Yes ✔	No	Not Present
Are matrices correctly identified on Chain of custody?	Yes ✔	No	
Is it clear what analyses were requested?	Yes ✔	No	
Custody Seals present on cooler?	Yes	No	
Custody Seals intact on sample bottles?	Yes	No	NA ✔
Samples in proper container/bottle?	Yes ✔	No	
Were correct preservatives used and noted?	Yes ✔	No	
Sample containers intact?	Yes ✔	No	
Sufficient sample volume for indicated test?	Yes ✔	No	
Were container lables complete (ID, Pres, Date)?	Yes ✔	No	
All samples received within holding time?	Yes ✔	No	
Was an attempt made to cool the samples?	Yes ✔	No	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ✔	No	
Response when temperature is outside of range:			
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ✔	No	2.4 °C
Water - Were bubbles absent in VOC vials?	Yes ✔	No	NA
Water - pH acceptable upon receipt?	Yes	No	NA ✔
Sample Condition?	Intact ✔	Broken	Leaking

Number of preserved bottles checked for pH: _____

<2 or >12 unless noted — Adjusted? — Checked by

Client Contacted? Yes No ✔ NA Person Contacted: Comments:

Contact Mode: Phone: Fax: Email: In Person:

Date Contacted: Contacted By:

Regarding:

CorrectiveAction:

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: Animas Environmental Services	☒ Standard ☐ Rush
Mailing Address: 624 E Comanche Farmington NM 87401	Project Name: BMG Landfarm/ Evaporation Pond
Phone #: 505-564-2281	Project #: AES 040605
email or Fax#: 505-324-2022	Project Manager: R. Kennemer
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: N. Willis
Accreditation: ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: 2.4

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX 8021	TPH (GRO/DRO/MRO) 8015	Chlorides 300.0	TDS SM2540C	Air Bubbles (Y or N)
		H_2O	Trip Blank	2-40mL	HCl	1					
1-3-12	1248	↓	MW-1	6-40mL 1-500mL	5-HCl, 1non non	2	X	X	X	X	
1-3-12	1319		MW-2	↓	↓	3	X	X	X	X	
1-3-12	1333		MW-3			4	X	X	X	X	
1-3-12	1225		MW-4			5	X	X	X	X	
1-3-12	1302		Interstitial well			6	X	X	X	X	
1-3-12	1155	Soil	Treatment Zone	1 MeOH kit 1 4oz jar	MeOH	7	X	X	X		
1-3-12	1123		Cell #1 Vadose Zone	↓	↓	8	X	X	X		
1-3-12	1059		Cell #2 Vadose Zone			9	X	X	X		
1-3-12	1012		Cell #3 Vadose Zone			10	X	X	X		
1-3-12	0930		Cell #4 Vadose Zone	↓	↓	11	X	X	X		

Date	Time	Relinquished by:	Received by:	Date	Time
1/4/12	1524			1/4/12	1524
1/5/12	1049			1/5/12	1435

Remarks:

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

BMG

BENSON-MONTIN-GREER DRILLING CORP.

4900 College Boulevard, Farmington, NM 87402 Office: 505.325.8874 Fax: 505.327.9207

January 26, 2012

Mr. Brad Jones
NMOCD Environment Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2011 ANNUAL REPORT CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY, PERMIT No. NM-02-0004
Section 20, Township 25 North, Range 1 East, Rio Arriba County

Dear Mr. Jones:

Please find enclosed the referenced annual report for 2011.

Detailed quarterly reports for January, April, and July of 2011 that included figures of sample locations, chains of custody, and laboratory analyses have been sent to your office during the past year. Enclosed are copies of the Summary Tables from those reports. Please note, as stated in the report dated January 4, 2012 covering the July 2011 sampling, we will be conducting sampling and monitoring semi-annually, not quarterly, after the July 2011 collections.

If you have any questions please contact me at 505-325-8874 or by email at mikedimond@bmgdrilling.com.

Sincerely,

Mike Dimond
President

Cc: NMOCD, Aztec; File

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/ Evap. Pond **Work Order:** 1101669

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-25504		*MBLK*				Batch ID:	**25504**	Analysis Date:		2/2/2011 4:29:36 PM	
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-25504		*LCS*				Batch ID:	**25504**	Analysis Date:		2/2/2011 4:47:00 PM	
Chloride	14.20	mg/Kg	1.5	15	0	94.6	90	110			
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R43314**	Analysis Date:		1/24/2011 10:53:25 AM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R43314**	Analysis Date:		1/25/2011 1:01:27 AM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R43543**	Analysis Date:		2/7/2011 1:45:52 PM	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R43314**	Analysis Date:		1/24/2011 11:04:38 AM	
Chloride	5.129	mg/L	0.50	5	0	103	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R43314**	Analysis Date:		1/25/2011 1:12:41 AM	
Chloride	5.005	mg/L	0.50	5	0	100	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R43543**	Analysis Date:		2/7/2011 1:57:06 PM	
Chloride	4.794	mg/L	0.50	5	0	95.9	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-25371		*MBLK*				Batch ID:	**25371**	Analysis Date:		1/25/2011 7:24:30 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-25371		*LCS*				Batch ID:	**25371**	Analysis Date:		1/25/2011 7:58:21 AM	
Diesel Range Organics (DRO)	38.16	mg/Kg	10	50	0	76.3	66.2	120			
Sample ID: LCSD-25371		*LCSD*				Batch ID:	**25371**	Analysis Date:		1/25/2011 8:32:12 AM	
Diesel Range Organics (DRO)	37.93	mg/Kg	10	50	0	75.9	66.2	120	0.605	14.3	
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-25348		*MBLK*				Batch ID:	**25348**	Analysis Date:		1/26/2011 4:55:19 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-25348		*LCS*				Batch ID:	**25348**	Analysis Date:		1/26/2011 5:29:25 PM	
Diesel Range Organics (DRO)	5.543	mg/L	1.0	5	0	111	74	157			
Sample ID: LCSD-25348		*LCSD*				Batch ID:	**25348**	Analysis Date:		1/26/2011 6:03:19 PM	
Diesel Range Organics (DRO)	6.173	mg/L	1.0	5	0	123	74	157	10.8	23	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/ Evap. Pond **Work Order:** 1101669

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-25437		*MBLK*				Batch ID:	**25437**	Analysis Date:		1/28/2011 4:37:40 PM	
Gasoline Range Organics (GRO)	9.170	mg/Kg	5.0								
Sample ID: MB-25410		*MBLK*				Batch ID:	**25410**	Analysis Date:		2/1/2011 4:45:55 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: MB-25437		*MBLK*				Batch ID:	**25437**	Analysis Date:		2/1/2011 5:14:39 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-25437		*LCS*				Batch ID:	**25437**	Analysis Date:		1/28/2011 6:04:15 PM	
Gasoline Range Organics (GRO)	25.55	mg/Kg	5.0	25	0	102	95.7	120			
Sample ID: LCS-25410		*LCS*				Batch ID:	**25410**	Analysis Date:		2/1/2011 2:50:29 AM	
Gasoline Range Organics (GRO)	26.74	mg/Kg	5.0	25	0	107	95.7	120			
Sample ID: LCSD-25437		*LCSD*				Batch ID:	**25437**	Analysis Date:		1/28/2011 6:33:05 PM	
Gasoline Range Organics (GRO)	29.08	mg/Kg	5.0	25	0	116	95.7	120	12.9	14.8	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1101669-01A MSD		*MSD*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 7:37:34 PM	
Gasoline Range Organics (GRO)	0.5368	mg/L	0.050	0.5	0	107	74.6	134	6.94	17	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 9:01:43 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R43460**	Analysis Date:		2/1/2011 8:59:34 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 11:26:24 AM	
Gasoline Range Organics (GRO)	0.5522	mg/L	0.050	0.5	0	110	83.7	124			
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R43460**	Analysis Date:		2/1/2011 11:53:01 AM	
Gasoline Range Organics (GRO)	0.5616	mg/L	0.050	0.5	0	112	83.7	124			
Sample ID: 1101669-01A MS		*MS*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 7:08:41 PM	
Gasoline Range Organics (GRO)	0.5008	mg/L	0.050	0.5	0	100	74.6	134			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/ Evap. Pond **Work Order:** 1101669

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-25437		*MBLK*				Batch ID:	**25437**	Analysis Date:		1/28/2011 4:37:40 PM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: MB-25410		*MBLK*				Batch ID:	**25410**	Analysis Date:		2/1/2011 4:45:55 AM	
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-25437		*LCS*				Batch ID:	**25437**	Analysis Date:		1/28/2011 5:06:33 PM	
Benzene	1.015	mg/Kg	0.050	1	0	101	83.3	107			
Toluene	0.9793	mg/Kg	0.050	1	0	97.9	74.3	115			
Ethylbenzene	1.025	mg/Kg	0.050	1	0	102	80.9	122			
Xylenes, Total	3.126	mg/Kg	0.10	3	0	104	85.2	123			
Sample ID: LCS-25410		*LCS*				Batch ID:	**25410**	Analysis Date:		2/1/2011 4:17:03 AM	
Methyl tert-butyl ether (MTBE)	1.045	mg/Kg	0.10	1	0	104	65.5	229			
Benzene	0.9954	mg/Kg	0.050	1	0	99.5	83.3	107			
Toluene	0.9755	mg/Kg	0.050	1	0	97.5	74.3	115			
Ethylbenzene	1.015	mg/Kg	0.050	1	0.0125	100	80.9	122			
Xylenes, Total	3.105	mg/Kg	0.10	3	0.0169	103	85.2	123			
Sample ID: LCSD-25437		*LCSD*				Batch ID:	**25437**	Analysis Date:		1/28/2011 5:35:24 PM	
Benzene	1.041	mg/Kg	0.050	1	0	104	83.3	107	2.59	15.6	
Toluene	1.005	mg/Kg	0.050	1	0	101	74.3	115	2.63	19.2	
Ethylbenzene	1.035	mg/Kg	0.050	1	0	103	80.9	122	0.961	19.5	
Xylenes, Total	3.196	mg/Kg	0.10	3	0	107	85.2	123	2.19	17	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/ Evap. Pond **Work Order:** 1101669

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1101669-02A MSD		*MSD*				Batch ID:	R43435	Analysis Date:		1/31/2011 8:35:18 PM	
Benzene	18.30	µg/L	1.0	20	0	91.5	87.7	108	9.22	13.8	
Toluene	18.37	µg/L	1.0	20	0	91.8	84.2	115	9.53	17.1	
Ethylbenzene	18.53	µg/L	1.0	20	0	92.6	81.3	115	8.26	15.3	
Xylenes, Total	56.13	µg/L	2.0	60	0	93.5	83	118	7.68	13	
Sample ID: 5ML RB		*MBLK*				Batch ID:	R43435	Analysis Date:		1/31/2011 9:01:43 AM	
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: 5ML RB		*MBLK*				Batch ID:	R43460	Analysis Date:		2/1/2011 8:59:34 AM	
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:	R43435	Analysis Date:		1/31/2011 11:55:18 AM	
Benzene	19.02	µg/L	1.0	20	0	95.1	84.7	118			
Toluene	19.64	µg/L	1.0	20	0	98.2	82	123			
Ethylbenzene	19.93	µg/L	1.0	20	0	99.7	83	118			
Xylenes, Total	61.10	µg/L	2.0	60	0	102	85.4	119			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	R43460	Analysis Date:		2/1/2011 12:21:49 PM	
Benzene	20.01	µg/L	1.0	20	0	100	84.7	118			
Toluene	20.50	µg/L	1.0	20	0	102	82	123			
Ethylbenzene	20.35	µg/L	1.0	20	0	102	83	118			
Xylenes, Total	62.40	µg/L	2.0	60	0	104	85.4	119			
Sample ID: 1101669-02A MS		*MS*				Batch ID:	R43435	Analysis Date:		1/31/2011 8:06:27 PM	
Benzene	20.06	µg/L	1.0	20	0	100	87.7	108			
Toluene	20.20	µg/L	1.0	20	0	101	84.2	115			
Ethylbenzene	20.12	µg/L	1.0	20	0	101	81.3	115			
Xylenes, Total	60.61	µg/L	2.0	60	0	101	83	118			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-25364		*MBLK*				Batch ID:	25364	Analysis Date:		1/26/2011 9:45:00 AM	
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-25364		*LCS*				Batch ID:	25364	Analysis Date:		1/26/2011 9:45:00 AM	
Total Dissolved Solids	1015	mg/L	20.0	1000	7	101	80	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1105100

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-26674		*MBLK*				Batch ID:	**26674**	Analysis Date:		5/5/2011 3:54:17 AM	
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-26674		*LCS*				Batch ID:	**26674**	Analysis Date:		5/5/2011 4:11:42 AM	
Chloride	14.83	mg/Kg	1.5	15	0	98.9	90	110			
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R45191**	Analysis Date:		5/6/2011 1:16:52 PM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R45228**	Analysis Date:		5/9/2011 9:45:05 AM	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R45191**	Analysis Date:		5/6/2011 1:34:18 PM	
Chloride	5.043	mg/L	0.50	5	0	101	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R45228**	Analysis Date:		5/9/2011 10:02:30 AM	
Chloride	5.049	mg/L	0.50	5	0	101	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-26683		*MBLK*				Batch ID:	**26683**	Analysis Date:		5/6/2011 11:38:42 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-26683		*LCS*				Batch ID:	**26683**	Analysis Date:		5/7/2011 12:12:50 AM	
Diesel Range Organics (DRO)	44.09	mg/Kg	10	50	0	88.2	66.2	120			
Sample ID: LCSD-26683		*LCSD*				Batch ID:	**26683**	Analysis Date:		5/7/2011 12:46:55 AM	
Diesel Range Organics (DRO)	49.74	mg/Kg	10	50	0	99.5	66.2	120	12.0	14.3	
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-26682		*MBLK*				Batch ID:	**26682**	Analysis Date:		5/7/2011 3:15:53 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-26682		*LCS*				Batch ID:	**26682**	Analysis Date:		5/6/2011 3:39:44 PM	
Diesel Range Organics (DRO)	5.236	mg/L	1.0	5	0	105	74	157			
Sample ID: LCSD-26682		*LCSD*				Batch ID:	**26682**	Analysis Date:		5/6/2011 4:14:06 PM	
Diesel Range Organics (DRO)	5.032	mg/L	1.0	5	0	101	74	157	3.98	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-26677		*MBLK*				Batch ID:	**26677**	Analysis Date:		5/5/2011 8:07:24 PM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: MB-26697		*MBLK*				Batch ID:	**26697**	Analysis Date:		5/6/2011 8:02:35 PM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-26677		*LCS*				Batch ID:	**26677**	Analysis Date:		5/5/2011 6:11:51 PM	
Gasoline Range Organics (GRO)	30.47	mg/Kg	5.0	25	0	122	88.8	124			
Sample ID: LCS-26697		*LCS*				Batch ID:	**26697**	Analysis Date:		5/6/2011 6:07:02 PM	
Gasoline Range Organics (GRO)	29.12	mg/Kg	5.0	25	0	116	88.8	124			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond

Work Order: 1105100

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1105100-01A MSD		*MSD*				Batch ID: **R45109**		Analysis Date:		5/3/2011 6:33:00 PM	
Gasoline Range Organics (GRO)	0.4936	mg/L	0.050	0.5	0	98.7	75.4	121	1.01	10.5	
Sample ID: 5ML RB		*MBLK*				Batch ID: **R45109**		Analysis Date:		5/3/2011 8:22:19 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R45109**		Analysis Date:		5/3/2011 7:03:07 PM	
Gasoline Range Organics (GRO)	0.5310	mg/L	0.050	0.5	0	106	81.8	120			
Sample ID: 1105100-01A MS		*MS*				Batch ID: **R45109**		Analysis Date:		5/3/2011 6:03:05 PM	
Gasoline Range Organics (GRO)	0.4986	mg/L	0.050	0.5	0	99.7	75.4	121			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-26677		*MBLK*				Batch ID: **26677**		Analysis Date:		5/5/2011 8:07:24 PM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: MB-26697		*MBLK*				Batch ID: **26697**		Analysis Date:		5/6/2011 8:02:35 PM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-26677		*LCS*				Batch ID: **26677**		Analysis Date:		5/5/2011 7:38:31 PM	
Benzene	0.9919	mg/Kg	0.050	1	0	99.2	83.3	107			
Toluene	1.025	mg/Kg	0.050	1	0.0128	101	74.3	115			
Ethylbenzene	1.017	mg/Kg	0.050	1	0.0134	100	80.9	122			
Xylenes, Total	3.105	mg/Kg	0.10	3	0.0245	103	85.2	123			
Sample ID: LCS-26697		*LCS*				Batch ID: **26697**		Analysis Date:		5/6/2011 7:33:41 PM	
Benzene	1.011	mg/Kg	0.050	1	0.016	99.5	83.3	107			
Toluene	1.020	mg/Kg	0.050	1	0.0129	101	74.3	115			
Ethylbenzene	1.026	mg/Kg	0.050	1	0.0132	101	80.9	122			
Xylenes, Total	3.073	mg/Kg	0.10	3	0.0392	101	85.2	123			

Qualifiers:

- 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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1105100

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R45109**	Analysis Date:		5/3/2011 8:22:19 AM	
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:	**R45109**	Analysis Date:		5/3/2011 7:33:13 PM	
Benzene	23.31	µg/L	1.0	20	0	117	93.4	120			
Toluene	23.18	µg/L	1.0	20	0	116	96.2	122			
Ethylbenzene	21.80	µg/L	1.0	20	0	109	95	121			
Xylenes, Total	66.83	µg/L	2.0	60	0	111	97.6	122			
Sample ID: 100NG BTEX LCSD		*LCSD*				Batch ID:	**R45109**	Analysis Date:		5/3/2011 8:03:26 PM	
Benzene	22.64	µg/L	1.0	20	0	113	93.4	120	2.92	10.1	
Toluene	22.44	µg/L	1.0	20	0	112	96.2	122	3.24	14.3	
Ethylbenzene	21.51	µg/L	1.0	20	0	108	95	121	1.33	15.5	
Xylenes, Total	65.78	µg/L	2.0	60	0	110	97.6	122	1.59	10.4	
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-26681		*MBLK*				Batch ID:	**26681**	Analysis Date:		5/7/2011 12:57:00 PM	
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-26681		*LCS*				Batch ID:	**26681**	Analysis Date:		5/7/2011 12:57:00 PM	
Total Dissolved Solids	1029	mg/L	20.0	1000	15	101	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
Interstitial Well	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
Interstitial Well	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
Interstitial Well	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
Interstitial Well	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
Interstitial Well	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-1	12-Oct-10	TBS	39.32	12.16	0.892	3.66	7.33	142.8
MW-1	19-Jan-11	TBS	39.42	11.22	0.924	3.51	7.81	110.4
MW-1	28-Apr-11	TBS	39.51	12.80	0.901	4.07	NM	NM
MW-1	15-Jul-11	TBS	39.59	12.80	0.945	NM	7.08	175.8
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0
MW-2	12-Oct-10	TBS	40.38	12.81	0.928	4.13	7.87	68.7
MW-2	19-Jan-11	TBS	40.49	10.51	0.888	3.22	7.96	122.7
MW-2	28-Apr-11	TBS	40.57	12.49	0.902	NM	NM	NM
MW-2	29-Jul-11	TBS	40.68	12.29	0.908	NM	7.44	90.7
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-3	12-Oct-10	TBS	39.61	12.85	0.834	3.86	7.59	130.8
MW-3	19-Jan-11	TBS	39.71	10.94	0.870	5.11	7.78	132.8
MW-3	28-Apr-11	TBS	39.80	14.60	0.874	NM	NM	NM
MW-3	15-Jul-11	TBS	39.89	12.62	0.867	NM	7.22	152.5
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1
MW-4	12-Oct-10	TBS	40.12	12.84	0.963	5.04	7.28	162.5
MW-4	19-Jan-11	TBS	40.23	11.66	0.997	6.95	7.65	53.4
MW-4	28-Apr-11	TBS	40.30	12.37	0.966	4.63	NM	NM
MW-4	15-Jul-11	TBS	40.41	13.65	0.992	NM	7.20	126.7

NM - Not Measured

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
Interstitial Well	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
Interstitial Well	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
Interstitial Well	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
Interstitial Well	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615
MW-1	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	643
MW-1	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	13	665
MW-1	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	13	705
MW-1	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	860
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-2	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	615
MW-2	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	750
MW-2	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	40	790
MW-2	28-Jul-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	615
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-3	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	567
MW-3	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	27	630
MW-3	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	31	660
MW-3	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	670
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700
MW-4	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	865
MW-4	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	690
MW-4	28-Apr-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	684

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method			8021B	8260B		8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		6010	6010	6010	6010	6010	7470	6010	6010
NM WQCC STANDARD		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.05
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
Interstitial Well	16-Apr-10	NA	NA	NA	<0.12	<0.10	NA	NA	NA
Interstitial Well	8-Jul-10	<0.50	**110**	**0.075**	<0.15	<0.13	<0.00020	<1.3	<0.13
Interstitial Well	12-Oct-10	NA	NA	NA	<0.30	<0.25	NA	NA	NA
Interstitial Well	15-Jul-11	0.31	89	0.047	<0.060	<0.050	<0.00020	<0.50	<0.050
MW-1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW-1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW-1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW-1	16-Apr-10	NA	NA	NA	0.012	0.0070	NA	NA	NA
MW-1	8-Jul-10	<0.020	0.13	<0.0020	0.0084	<0.0050	<0.00020	<0.050	<0.0050
MW-1	12-Oct-10	NA	NA	NA	<0.0060	0.0055	NA	NA	NA
MW-1	15-Jul-11	<0.020	0.19	<0.0020	0.014	<0.0050	<0.00020	<0.050	<0.0050
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-2	16-Apr-10	NA	NA	NA	<0.0060	<0.0050	NA	NA	NA
MW-2	8-Jul-10	<0.020	0.28	<0.0020	0.025	<0.0050	<0.00020	<0.050	<0.0050
MW-2	12-Oct-10	NA	NA	NA	<0.0060	0.0078	NA	NA	NA
MW-2	28-Jul-11	<0.020	0.47	<0.0020	0.034	0.0090	<0.00020	<0.050	<0.0050
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-3	16-Apr-10	NA	NA	NA	0.010	<0.0050	NA	NA	NA
MW-3	8-Jul-10	<0.020	0.28	<0.0020	0.028	0.0065	<0.00020	<0.050	<0.0050
MW-3	12-Oct-10	NA	NA	NA	<0.0060	0.0073	NA	NA	NA
MW-3	15-Jul-11	<0.020	0.074	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		6010	6010	6010	6010	6010	7470	6010	6010
NM WQCC STANDARD		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.05
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA
MW-4	16-Apr-10	NA	NA	NA	0.0079	<0.0050	NA	NA	NA
MW-4	8-Jul-10	<0.020	0.16	<0.0020	0.019	<0.0050	<0.00020	<0.050	<0.0050
MW-4	12-Oct-10	NA	NA	NA	<0.0060	0.0079	NA	NA	NA
MW-4	15-Jul-11	<0.020	0.093	<0.0020	0.0097	<0.0050	<0.00020	<0.050	<0.0050

Notes: **<** **Analyte not detected above listed method limit**
mg/L **Milligrams per liter (ppm)**

TABLE 4
Treatment Zone Soil BTEX, TPH, and Chloride Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Composite Sample Locations	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)	Chloride (mg/kg)
		Laboratory Analytical Method			8021B				8015			300
		NMOCD Rule 36 Threshold			50 BTEX (Benzene<10 ppm)				100/2500			500
Treatment Zone	#1	1)N 36° 23.383' W 106° 52.054' 2)N 36° 23.376' W 106° 51.943' 3)N 36° 23.341' W 106° 51.881' 4)N 36° 23.403' W 106° 52.002'	28-Jul-11	0.5	<1.0	<1.0	<1.0	<2.0	<100	**3,800**	**3,300**	8.8

*** = Samples were analyzed by per EPA Method 8260B**

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytical Method			8021/8260B				8015M/8015B		
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100		
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.353' W 106° 51.999'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50
Cell #1	#1	N 36° 23.372' W 106° 52.051'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	22	50
Cell #1	#1	N 36° 23.336' W 106° 51.954'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1 Vadose Zone	VZ-1	N 36° 23.357' W 106° 52.007'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	34	60
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.403' W 106° 51.943'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63
Cell #2	#2	N 36° 23.405' W 106° 52.011'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.384' W 106° 51.933'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2 Vadose Zone	VZ-2	N 36° 23.413' W 106° 51.982'	28-Jul-11	3-5	<0.050	<0.050	<0.050	<0.10	<5.0	21	<51
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.353' W 106° 51.855'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.352' W 106° 51.911'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.866'	28-Apr-11	2	<0.25	<0.25	<0.25	<0.50	<25	3,400	5,300
Cell #3 Vadose Zone	VZ-3	N 36° 23.358' W 106° 51.860'	28-Jul-11	3-5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #4 Vadose Zone	VZ-4	N 36° 23.358' W 106° 51.787'	28-Jul-11	3-5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.8	<49

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytical Method			8021/8260B				8015M/8015B		

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

TABLE 6
Vadose Zone Soil Summary of Major Cations/Anions
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Land Farm ID	Sample ID	Sample Date	Sample Depth (ft)	pH	Spec. Cond. (umhos/cm)	Fluoride (mg/kg)	Chloride (mg/kg)	Nitrate as N (mg/kg)	Sulfate as SO_4 (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Potassium (mg/kg)	Sodium (mg/kg)
Cell #1	#1	7-Jun-06	2.5	7.7	42.8	NA	33.7*	NA	13.2	2,780	1,340	NA	<50
Cell #1	#1	22-May-07	3	7.37	NA	4.26*	23.5	NA	20.3*	8,000	2,820	2,460	64
Cell #1	#1	21-Jul-08	2	7.67	360	<1.5*	8	NA	8.8*	NA	NA	NA	NA
Cell #1	#1	11-Sep-09	2	7.65	370	<1.5	10	NA	23	3,000	1,300	860	<25
Cell #1	#1	8-Jul-10	2	8.43	380	<3.0	<15	NA	<15	2,500	1,900	1,300	<130
Cell #1 Vadose	VZ-1	28-Jul-11	3.5	8.32	983	2.9	15	3.3	7.9	5,600	3,500	2,400	<250
Cell #2	#2	7-Jun-06	2.5	7.7	64.1	NA	20.4*	NA	9.31	1,950	979	NA	<50
Cell #2	#2	22-May-07	3	7.59	NA	4.94*	17.4	NA	19.9*	6,690	2,230	1,650	64
Cell #2	#2	21-Jul-08	2	7.97	650	2.4*	14	NA	130*	NA	NA	NA	NA
Cell #2	#2	11-Sep-09	2	7.67	150	<1.5	8.9	NA	26	940	710	470	<25
Cell #2	#2	8-Jul-10	2	8.37	330	<3.0	<15	NA	73	2,200	1,300	820	<130
Cell #2 Vadose	VZ-2	28-Jul-11	3.5	8.63	831	<1.5	<7.5	<1.5	9.9	8,900	1,800	820	<250
Cell #3	#3	7-Jun-06	2.5	9.1	54.2	2.92	26.3*	NA	23.5	2,140	1,110	NA	<50
Cell #3	#3	22-May-07	3	7.30	NA	5.01*	57.6	NA	45.2*	5,570	2,660	2,620	70
Cell #3	#3	21-Jul-08	2	7.53	1,200	<1.5*	2.86	NA	2,200*	NA	NA	NA	NA
Cell #3	#3	11-Sep-09	2	7.32	870	<1.5	28	NA	140	3,000	2,400	2400	76
Cell #3	#3	8-Jul-10	2	8.29	330	<3.0	<15	NA	<15	2,000	1,400	1,000	<130
Cell #3 Vadose	VZ-3	28-Jul-11	3.5	8.04	2,730	3.1	6.3	0.39	350	8,000	3,100	2,100	<250
Cell #4 Vadose	VZ-4	28-Jul-11	3.5	8.39	972	5.3	<7.5	<1.5	10	7,000	2,300	1,500	<250

Note: * = Concentrations reported are in mg/kg NA = Not Analyzed

TABLE 7

Vadose Zone Soil Summary of Metals

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Land Farm ID	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Cyanide (mg/kg)	Iron (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Uranium (mg/kg)	Zinc (mg/kg)
Cell #1	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #1	22-May-07	5.4	169	0.26	33.9	NA	NA	NA	<0.033	11.90	NA	<4.0	<0.50	NA	NA
Cell #1	21-Jul-08	<12	81	<0.50	7.4	NA	NA	NA	<0.033	5.2	NA	<12	<1.2	NA	NA
Cell #1	11-Sep-09	2.0	50	0.27	5.9	NA	NA	NA	<0.020	3.5	NA	<1.0	<0.50	NA	NA
Cell #1	8-Jul-10	<13	77	<0.50	7.3	NA	NA	NA	<0.033	3.9	NA	<13	<1.3	NA	NA
Cell #1 Vadose Zone	28-Jul-11	<25	150	<1.0	16	12	<0.3	19,000	<0.033	9.1	410	<25	<2.5	<50	55
Cell #2	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #2	22-May-07	5.3	171	0.34	54.5	NA	NA	NA	<0.033	10.60	NA	<4.0	<0.50	NA	NA
Cell #2	21-Jul-08	<12	92	<0.50	9.2	NA	NA	NA	<0.033	7.3	NA	<12	<1.2	NA	NA
Cell #2	11-Sep-09	1.9	48	<0.25	3.8	NA	NA	NA	<0.020	2.8	NA	<1.0	<0.50	NA	NA
Cell #2	8-Jul-10	<13	95	<0.50	5.6	NA	NA	NA	<0.033	3.5	NA	<13	<1.3	NA	NA
Cell #2 Vadose Zone	28-Jul-11	<13	110	<0.50	7.6	6.4	<0.3	12,000	<0.033	5.4	280	<13	<1.3	<25	28
Cell #3	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #3	22-May-07	4.9	181	0.37	36.9	NA	NA	NA	<0.033	13.90	NA	<4.0	<0.50	NA	NA
Cell #3	21-Jul-08	<12	77	<0.50	7.2	NA	NA	NA	0.033	11	NA	<12	<1.2	NA	NA
Cell #3	11-Sep-09	2.6	120	0.48	14	NA	NA	NA	<0.020	6.9	NA	<1.0	<0.50	NA	NA
Cell #3	8-Jul-10	<13	91	<0.50	6.2	NA	NA	NA	<0.033	3.7	NA	<13	<1.3	NA	NA
Cell #3 Vadose Zone	28-Jul-11	<13	97	<0.50	15	11	<0.3	19,000	<0.033	6.4	340	<13	<1.3	<25	48

TABLE 7
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Land Farm ID	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Cyanide (mg/kg)	Iron (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Uranium (mg/kg)	Zinc (mg/kg)
Cell #4 Vadose Zone	28-Jul-11	<13	92	<0.50	15	12	<0.3	18,000	<0.033	6.0	240	<13	<1.3	<25	41

TABLE 8

Vadose Zone Soil Volatile Organic Compound Analytical Results

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	Sample Date	EDC (mg/kg)	EDB (mg/kg)	Total Naphthalenes (mg/kg)	Carbon Tetrachloride (mg/kg)	Chloroform (mg/kg)	1,1 dichloroethane (mg/kg)	1,1 DCE (mg/kg)	Methylene Chloride (mg/kg)	1,1,2,2-tetrachloroethane (mg/kg)	PCE (mg/kg)	1,1,1-trichloroethane (mg/kg)	1,1,2-trichloroethane (mg/kg)	TCE (mg/kg)	Vinyl Chloride (mg/kg)
Cell #1 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10
Cell #2 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #3 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #4 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

TABLE 9

Vadose Zone Soil 8270, PCBs, and Radioactivity Analytical Results

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Benzo(a) pyrene (mg/kg)	Phenol (mg/kg)	PCBs (mg/kg)	Radioactivity	
							Radium-226 (Pci/g)	Radium-228 (Pci/g)
				8270C	8270C	8082	901.1m	
Cell #1 Vadose Zone	VZ-1	28-Jul-11	3.5	<0.20	<0.20	<0.14	0.962	1.39
Cell #2 Vadose Zone	VZ-2	28-Jul-11	3.5	<0.050	<0.050	<0.50	0.728	1.06
Cell #3 Vadose Zone	VZ-3	28-Jul-11	3.5	<0.050	<0.050	<0.50	1.06	1.23
Cell #4 Vadose Zone	VZ-4	28-Jul-11	3.5	<0.050	<0.050	<0.50	1.26	1.33

AES Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 FAX 505-324-2022 www.animasenvironmental.com

January 4, 2012

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the July 2011 Evaporation Pond Groundwater Sampling, Treatment Zone Soil Sampling, and Vadose Zone Soil Sampling and Request for Permit Modification for BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On July 15 and 28, 2011, Animas Environmental Services, LLC (AES) completed 1) evaporation pond quarterly groundwater monitoring and sampling, 2) treatment zone sampling, and 3) vadose zone sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off of Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.0 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner in late September 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

2.0 Evaporation Pond Groundwater Monitoring and Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on July 15 and 28, 2011. Groundwater samples were collected from monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6 °C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0;
- Total Dissolved Solids (TDS) – Standard Method 2540C; and
- RCRA 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) – EPA 6010 and 7470.

2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 12.29 °C (MW-2) to 19.36 °C (IW). Conductivity readings were between 0.867 mS/cm (MW-3) to 184.3 mS/cm (IW). pH readings ranged from 7.08 to 7.44. Groundwater ORP ranged from -100.6 mV (IW) to 152.5 mV (MW-3). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the July 2011 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, below applicable New Mexico Water Quality Control Commission (WQCC) standards. All monitor wells also had TPH concentrations below laboratory detection limits, with the exception of the interstitial well, which had a reported concentration of 0.64 mg/L GRO and 13 mg/L DRO.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled but have remained relatively stable. Analytical results for RCRA 8 metals showed that MW-1 through MW-4 were below laboratory detection limits or below applicable standards for each metal analyzed. The interstitial well (IW) had arsenic, barium, and cadmium concentrations above applicable WQCC standards. The results above laboratory detection limits have been summarized as follows:

- TPH-GRO: IW (0.64 mg/L);
- TPH-DRO: IW (13 mg/L);
- Chloride: IW (140,000 mg/L), MW-1 (12 mg/L), MW-2 (29 mg/L), MW-3 (32 mg/L), and MW-4 (15 mg/L);
- TDS: IW (193,000 mg/L), MW-1 (860 mg/L), MW-2 (615 mg/L), MW-3 (670 mg/L), and MW-4 (830 mg/L);
- Arsenic: IW (0.31 mg/L);
- Barium: IW (89 mg/L), MW-1 (0.19 mg/L), MW-2 (0.47 mg/L), MW-3 (0.074 mg/L), and MW-4 (0.093mg/L);
- Cadmium: IW(0.047 mg/L); and
- Chromium: MW-1 (0.014 mg/L), MW-2 (0.034 mg/L), and MW-4 (0.0097 mg/L);
- Lead: MW-1 (0.0090 mg/L) and MW-2 (0.0073 mg/L).

The analytical results for the groundwater samples collected during the July 2011 sampling event are presented in Tables 2 and 3 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

3.0 Treatment Zone Monitoring

As required by the NMOCD permit for this facility and specified by NMOCD in correspondence dated June 3, 2011, one composite soil sample consisting of four discrete samples was collected from the treatment zone. The composite sample was composed of one sample from Cell # 1, two samples from Cell # 2, and one sample from Cell # 3. The composite sample was comprised of samples collected in zones which are being tilled on a frequent basis. Cell #4 was not included in the composite sample because it is currently not in use.

A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, the sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than

6°C until delivered to Hall. A Chain of Custody was completed at the time the samples were collected.

3.1 Laboratory Analytical Methods

The composite sample from the treatment zone was analyzed for the following:

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

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

3.2 Treatment Zone Analytical Results

Based on AES observations of the treatment cells at the time of sample collection, Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Treatment Cell #4 is not in use and therefore was not sampled. Results are summarized as follows:

- BTEX concentrations were reported below the laboratory detection limit;
- TPH concentrations were reported at 3800 mg/kg DRO and 3,300 mg/kg MRO;
- The chloride concentration was reported at 8.8 mg/kg, which is below the applicable NMOCD threshold of 500 mg/kg.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented in Table 4 and on Figure 2. Laboratory reports are presented in Appendix A.

4.0 Vadose Zone Monitoring

As required by the NMOCD permit for this facility and specified in NMOCD correspondence dated June 3, 2011, one random sample was collected for laboratory analysis from each individual cell (Cells #1 through #4) at 3.5 feet below the native ground surface. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at

less than 6 °C until delivered to. A Chain of Custody was completed at the time the samples were collected.

4.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- Volatile organic compounds (VOCs) USEPA Method 8260B;
- TPH (GRO, MRO, and DRO) per USEPA Method 8015B; and
- Major cations and anions (including chloride, fluoride, nitrate as nitrogen, and sulfate) per USEPA Method 300.0;
- Metals (including As, Ba, Cd, Cr, Pb, Hg, Se, Ag, U, Cu, Fe, Mn, Zn, Mg, Na, K, and Ca) per USEPA Methods 6010, 6020, and 7471;
- PCBs per USEPA Method 8082;
- Polynuclear aromatic hydrocarbons (PAHs) (including benzo-pyrene and phenols) per USEPA Method 8270C;
- Cyanide per USEPA Method 335.4;
- Radioactivity (Radium-226 and Radium-228) per USEPA Method 901.1m;
- pH; and
- Specific conductivity

The above sampling suite meets the five year monitoring program for constituents listed in Subsections A and B of New Mexico Administrative Code (NMAC) 20.6.2.3103. Samples for VOC analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

4.2 Vadose Zone Analytical Results

Soil samples collected from the vadose zone within the four treatment cells are summarized as follows:

- VOCs - below laboratory detection limits in each cell;
- TPH - below the laboratory detection limits in Cell #3 and Cell #4. Cell #1 - 94 mg/kg (DRO and MRO), and Cell #2 - 21 mg/kg (DRO and MRO);
- Chloride - Cell #1 (15 mg/kg) and Cell #3 (6.3 mg/kg);
- Fluoride - Cell #1 (2.9 mg/kg), Cell #3 (3.1 mg/kg), and Cell #4 (5.3 mg/kg);
- Nitrate as N – Cell #1 (3.3 mg/kg) and Cell #3 (0.39 mg/kg);
- Sulfate – Cell #1 (7.9 mg/kg), Cell #2 (9.9 mg/kg), Cell #3 (350 mg/kg), and Cell #4 (10 mg/kg);
- Calcium - ranged from 5,600 mg/kg (Cell #1) to 8,900 mg/kg (Cell #2);
- Magnesium – ranged from 1,800 mg/kg (Cell #2) to 3,500 mg/kg (Cell #1);
- Potassium - ranged from 820 mg/kg (Cell #2) to 2,400 mg/kg (Cell #1);

- Sodium - below the laboratory detection limit of 250 mg/kg in each cell;
- Arsenic, cadmium, mercury, selenium, silver, and uranium - below the laboratory detection limits in each sample;
- Barium – ranged from 92 mg/kg (Cell #4) to 150 mg/kg (Cell #1);
- Chromium - Cell #1 (16 mg/kg), Cell #2 (7.6 mg/kg), Cell #3 (15 mg/kg), and Cell #4 (15 mg/kg);
- Copper - ranged from 6.4 mg/kg (Cell #2) and 12 mg/kg (Cell #1 and #4);
- Iron concentrations were reported in Cell #1 (19,000 mg/kg), Cell #2 (12,000 mg/kg), Cell #3 (19,000 mg/kg), and Cell #4 (18,000 mg/kg);
- Lead - ranged from 5.4 mg/kg (Cell #2) to 9.1 mg/kg (Cell #1);
- Manganese - ranged from 240 mg/kg (Cell #4) to 410 mg/kg (Cell #1);
- Zinc - Cell #1(55 mg/kg), Cell #2 (28 mg/kg), Cell #3 (48 mg/kg), and Cell #4 (41 mg/kg);
- PAHs including benzo-pyrene and phenols –below laboratory detection limits in all four cells; and
- Radioactivity (combined Radium-226 and Radium-228) - Cell #1 (2.352 Pci/g), Cell #2 (1.788 Pci/g), Cell #3 (2.290 Pci/g), and Cell #4 (2.590 Pci/g).

The locations of all samples, as well as analytical results (BTEX, TPH, and chlorides) are presented on Figure 3. Laboratory analytical results are summarized in Tables 5 through 9, and laboratory reports are presented in Appendix A.

5.0 Permit Modification Request

5.1 Treatment Zone

BMG proposes a modification request to update the original permit to include the following regarding treatment zone monitoring:

- *The operator shall spread contaminated soils on the surface in eight-inch or less lifts or approximately 1,000 cubic yards per acre per eight-inch lift.* (See 19.15.36.15.DNMAC);
- *TPH concentration of each lift, as determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, does not exceed 2500 mg/kg.* (See 19.15.36.15.D NMAC).
-

5.2 Vadose Zone

In addition, BMG proposes a modification request to update the original permit to include the following vadose zone monitoring:

- *The operator shall take vadose zone samples from soils between three and four feet below the cell's original ground surface.* (See 19.15.13.15.E(1) NMAC);
- *The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone at least semi-annually.* (See 19.15.36.15.E(2) NMAC).

6.0 Conclusions and Recommendations

AES personnel conducted groundwater and interstitial well sampling, along with landfarm sampling, at the BMG Surface Waste Management Facility in July 2011. Based on the results of the July 2011 sampling event, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH.

Groundwater samples from the interstitial well (IW) also had concentrations below laboratory detection limits for BTEX. The interstitial well (IW) had reported concentrations above laboratory detection limits for TPH-GRO (0.64 mg/L), TPH-DRO (13 mg/L), chloride (140,000 mg/L), and TDS (193,000 mg/L). Metals reported above applicable WQCC standards include arsenic (0.31 mg/L), barium (89 mg/L), and cadmium (0.047 mg/L).

The treatment zone composite sample showed that BTEX concentrations were reported below laboratory detection limits and the NMOCD Rule 36 Threshold for BTEX (50 mg/kg) and benzene (10 mg/kg). The total TPH concentration was reported at 7,100 mg/kg.

Results from vadose zone sampling included quarterly sampling for BTEX, TPH, and chlorides, annual sampling for major cations and anions, and five year monitoring per constituents listed in Subsections A and B of 20.6.2.3103 NMAC. BTEX concentrations were below laboratory detection limits in all cells sampled, and TPH results from all four cells remained below laboratory detection limits. Chloride concentrations above the laboratory detection limit were reported in Cell #1 (45 mg/kg) and Cell #3 (7.9 mg/kg). All cells remained below the NMOCD threshold of 500 mg/kg for chloride. Results from the annual and five year monitoring event will be used to determine whether a release has occurred at the site in the future.

AES has scheduled the next semi-annual sampling event of the evaporation pond monitor wells, treatment zone soils, and vadose zone soils to occur in January 2012.

If you have any questions regarding the site conditions, sampling results, or the request for permit modifications, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

Deborah Watson
Project Manager

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Summary of Groundwater Metals Analytical Results
Table 4. Treatment Zone Soil BTEX, TPH, and Chloride Analytical Results
Table 5. Vadose Zone Soil BTEX and TPH Analytical Results
Table 6. Vadose Zone Soil Summary of Major Cations/Anions
Table 7. Vadose Zone Soil Summary of Metals
Table 8. Vadose Zone Soil Volatile Organic Compounds Analytical Results
Table 9. Vadose Zone Soil 8270, PCBs, and Radioactivity Analytical Results

Figures

Figure 1. Location of BMG Evaporation Pond and Monitoring Wells and Contaminant Concentrations, July 2011
Figure 2. Treatment Zone Monitoring Locations and Contaminant Concentrations, July 2011
Figure 3. Vadose Zone Monitoring Locations and Contaminant Concentrations, July 2011

Appendices

Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

cc: Mike Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington NM 87402

Brandon Powell
NM Oil Conservation Division
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Aztec, NM 87410

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TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
Interstitial Well	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
Interstitial Well	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
Interstitial Well	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
Interstitial Well	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
Interstitial Well	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-1	12-Oct-10	TBS	39.32	12.16	0.892	3.66	7.33	142.8
MW-1	19-Jan-11	TBS	39.42	11.22	0.924	3.51	7.81	110.4
MW-1	28-Apr-11	TBS	39.51	12.80	0.901	4.07	NM	NM
MW-1	15-Jul-11	TBS	39.59	12.80	0.945	NM	7.08	175.8
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8

TABLE 1
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BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0
MW-2	12-Oct-10	TBS	40.38	12.81	0.928	4.13	7.87	68.7
MW-2	19-Jan-11	TBS	40.49	10.51	0.888	3.22	7.96	122.7
MW-2	28-Apr-11	TBS	40.57	12.49	0.902	NM	NM	NM
MW-2	29-Jul-11	TBS	40.68	12.29	0.908	NM	7.44	90.7
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-3	12-Oct-10	TBS	39.61	12.85	0.834	3.86	7.59	130.8
MW-3	19-Jan-11	TBS	39.71	10.94	0.870	5.11	7.78	132.8
MW-3	28-Apr-11	TBS	39.80	14.60	0.874	NM	NM	NM
MW-3	15-Jul-11	TBS	39.89	12.62	0.867	NM	7.22	152.5
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1
MW-4	12-Oct-10	TBS	40.12	12.84	0.963	5.04	7.28	162.5
MW-4	19-Jan-11	TBS	40.23	11.66	0.997	6.95	7.65	53.4
MW-4	28-Apr-11	TBS	40.30	12.37	0.966	4.63	NM	NM
MW-4	15-Jul-11	TBS	40.41	13.65	0.992	NM	7.20	126.7

NM - Not Measured

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
Interstitial Well	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
Interstitial Well	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
Interstitial Well	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
Interstitial Well	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615
MW-1	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	643
MW-1	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	13	665
MW-1	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	13	705
MW-1	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	860
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-2	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	615
MW-2	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	750
MW-2	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	40	790
MW-2	28-Jul-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	615
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800

TABLE 2
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Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-3	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	567
MW-3	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	27	630
MW-3	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	31	660
MW-3	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	670
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700
MW-4	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	865
MW-4	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	690
MW-4	28-Apr-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	684

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
Interstitial Well	16-Apr-10	NA	NA	NA	<0.12	<0.10	NA	NA	NA
Interstitial Well	8-Jul-10	<0.50	**110**	**0.075**	<0.15	<0.13	<0.00020	<1.3	<0.13
Interstitial Well	12-Oct-10	NA	NA	NA	<0.30	<0.25	NA	NA	NA
Interstitial Well	15-Jul-11	**0.31**	**89**	**0.047**	<0.060	<0.050	<0.00020	<0.50	<0.050
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW- 1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW- 1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW- 1	16-Apr-10	NA	NA	NA	0.012	0.0070	NA	NA	NA
MW- 1	8-Jul-10	<0.020	0.13	<0.0020	0.0084	<0.0050	<0.00020	<0.050	<0.0050
MW- 1	12-Oct-10	NA	NA	NA	<0.0060	0.0055	NA	NA	NA
MW- 1	15-Jul-11	<0.020	0.19	<0.0020	0.014	<0.0050	<0.00020	<0.050	<0.0050
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-2	16-Apr-10	NA	NA	NA	<0.0060	<0.0050	NA	NA	NA
MW-2	8-Jul-10	<0.020	0.28	<0.0020	0.025	<0.0050	<0.00020	<0.050	<0.0050
MW-2	12-Oct-10	NA	NA	NA	<0.0060	0.0078	NA	NA	NA
MW-2	28-Jul-11	<0.020	0.47	<0.0020	0.034	0.0090	<0.00020	<0.050	<0.0050
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-3	16-Apr-10	NA	NA	NA	0.010	<0.0050	NA	NA	NA
MW-3	8-Jul-10	<0.020	0.28	<0.0020	0.028	0.0065	<0.00020	<0.050	<0.0050
MW-3	12-Oct-10	NA	NA	NA	<0.0060	0.0073	NA	NA	NA
MW-3	15-Jul-11	<0.020	0.074	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA
MW-4	16-Apr-10	NA	NA	NA	0.0079	<0.0050	NA	NA	NA
MW-4	8-Jul-10	<0.020	0.16	<0.0020	0.019	<0.0050	<0.00020	<0.050	<0.0050
MW-4	12-Oct-10	NA	NA	NA	<0.0060	0.0079	NA	NA	NA
MW-4	15-Jul-11	<0.020	0.093	<0.0020	0.0097	<0.0050	<0.00020	<0.050	<0.0050

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Treatment Zone Soil BTEX, TPH, and Chloride Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Composite Sample Locations*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021B*				*8015*			*300*
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100/2500*			*500*
Treatment Zone	#1	1)N 36° 23.383' W 106° 52.054' 2)N 36° 23.376' W 106° 51.943' 3)N 36° 23.341' W 106° 51.881' 4)N 36° 23.403' W 106° 52.002'	28-Jul-11	0.5	<1.0	<1.0	<1.0	<2.0	<100	**3,800**	**3,300**	8.8

*** = Samples were analyzed by per EPA Method 8260B**

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100		
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.353' W 106° 51.999'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50
Cell #1	#1	N 36° 23.372' W 106° 52.051'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	22	50
Cell #1	#1	N 36° 23.336' W 106° 51.954'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1 Vadose Zone	VZ-1	N 36° 23.357' W 106° 52.007'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	34	60
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.403' W 106° 51.943'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63
Cell #2	#2	N 36° 23.405' W 106° 52.011'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.384' W 106° 51.933'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2 Vadose Zone	VZ-2	N 36° 23.413' W 106° 51.982'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	21	<51
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.353' W 106° 51.855'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.352' W 106° 51.911'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.866'	28-Apr-11	2	<0.25	<0.25	<0.25	<0.50	<25	3,400	5,300
Cell #3 Vadose Zone	VZ-3	N 36° 23.358' W 106° 51.860'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #4 Vadose Zone	VZ-4	N 36° 23.358' W 106° 51.787'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.8	<49

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

TABLE 6
Vadose Zone Soil Summary of Major Cations/Anions
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Land Farm ID	Sample ID	Sample Date	Sample Depth (ft)	pH	Spec. Cond. (umhos/cm)	Fluoride (mg/kg)	Chloride (mg/kg)	Nitrate as N (mg/kg)	Sulfate as SO_4 (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Potassium (mg/kg)	Sodium (mg/kg)
Cell #1	#1	7-Jun-06	2.5	7.7	42.8	NA	33.7*	NA	13.2	2,780	1,340	NA	<50
Cell #1	#1	22-May-07	3	7.37	NA	4.26*	23.5	NA	20.3*	8,000	2,820	2,460	64
Cell #1	#1	21-Jul-08	2	7.67	360	<1.5*	8	NA	8.8*	NA	NA	NA	NA
Cell #1	#1	11-Sep-09	2	7.65	370	<1.5	10	NA	23	3,000	1,300	860	<25
Cell #1	#1	8-Jul-10	2	8.43	380	<3.0	<15	NA	<15	2,500	1,900	1,300	<130
Cell #1 Vadose	VZ-1	28-Jul-11	3.5	8.32	983	2.9	15	3.3	7.9	5,600	3,500	2,400	<250
Cell #2	#2	7-Jun-06	2.5	7.7	64.1	NA	20.4*	NA	9.31	1,950	979	NA	<50
Cell #2	#2	22-May-07	3	7.59	NA	4.94*	17.4	NA	19.9*	6,690	2,230	1,650	64
Cell #2	#2	21-Jul-08	2	7.97	650	2.4*	14	NA	130*	NA	NA	NA	NA
Cell #2	#2	11-Sep-09	2	7.67	150	<1.5	8.9	NA	26	940	710	470	<25
Cell #2	#2	8-Jul-10	2	8.37	330	<3.0	<15	NA	73	2,200	1,300	820	<130
Cell #2 Vadose	VZ-2	28-Jul-11	3.5	8.63	831	<1.5	<7.5	<1.5	9.9	8,900	1,800	820	<250
Cell #3	#3	7-Jun-06	2.5	9.1	54.2	2.92	26.3*	NA	23.5	2,140	1,110	NA	<50
Cell #3	#3	22-May-07	3	7.30	NA	5.01*	57.6	NA	45.2*	5,570	2,660	2,620	70
Cell #3	#3	21-Jul-08	2	7.53	1,200	<1.5*	2.86	NA	2,200*	NA	NA	NA	NA
Cell #3	#3	11-Sep-09	2	7.32	870	<1.5	28	NA	140	3,000	2,400	2400	76
Cell #3	#3	8-Jul-10	2	8.29	330	<3.0	<15	NA	<15	2,000	1,400	1,000	<130
Cell #3 Vadose	VZ-3	28-Jul-11	3.5	8.04	2,730	3.1	6.3	0.39	350	8,000	3,100	2,100	<250
Cell #4 Vadose	VZ-4	28-Jul-11	3.5	8.39	972	5.3	<7.5	<1.5	10	7,000	2,300	1,500	<250

Note: * = Concentrations reported are in mg/kg NA = Not Analyzed

TABLE 7
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Land Farm ID	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Cyanide (mg/kg)	Iron (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Uranium (mg/kg)	Zinc (mg/kg)
Cell #1	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #1	22-May-07	5.4	169	0.26	33.9	NA	NA	NA	<0.033	11.90	NA	<4.0	<0.50	NA	NA
Cell #1	21-Jul-08	<12	81	<0.50	7.4	NA	NA	NA	<0.033	5.2	NA	<12	<1.2	NA	NA
Cell #1	11-Sep-09	2.0	50	0.27	5.9	NA	NA	NA	<0.020	3.5	NA	<1.0	<0.50	NA	NA
Cell #1	8-Jul-10	<13	77	<0.50	7.3	NA	NA	NA	<0.033	3.9	NA	<13	<1.3	NA	NA
Cell #1 Vadose Zone	28-Jul-11	<25	150	<1.0	16	12	<0.3	19,000	<0.033	9.1	410	<25	<2.5	<50	55
Cell #2	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #2	22-May-07	5.3	171	0.34	54.5	NA	NA	NA	<0.033	10.60	NA	<4.0	<0.50	NA	NA
Cell #2	21-Jul-08	<12	92	<0.50	9.2	NA	NA	NA	<0.033	7.3	NA	<12	<1.2	NA	NA
Cell #2	11-Sep-09	1.9	48	<0.25	3.8	NA	NA	NA	<0.020	2.8	NA	<1.0	<0.50	NA	NA
Cell #2	8-Jul-10	<13	95	<0.50	5.6	NA	NA	NA	<0.033	3.5	NA	<13	<1.3	NA	NA
Cell #2 Vadose Zone	28-Jul-11	<13	110	<0.50	7.6	6.4	<0.3	12,000	<0.033	5.4	280	<13	<1.3	<25	28
Cell #3	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #3	22-May-07	4.9	181	0.37	36.9	NA	NA	NA	<0.033	13.90	NA	<4.0	<0.50	NA	NA
Cell #3	21-Jul-08	<12	77	<0.50	7.2	NA	NA	NA	0.033	11	NA	<12	<1.2	NA	NA
Cell #3	11-Sep-09	2.6	120	0.48	14	NA	NA	NA	<0.020	6.9	NA	<1.0	<0.50	NA	NA
Cell #3	8-Jul-10	<13	91	<0.50	6.2	NA	NA	NA	<0.033	3.7	NA	<13	<1.3	NA	NA
Cell #3 Vadose Zone	28-Jul-11	<13	97	<0.50	15	11	<0.3	19,000	<0.033	6.4	340	<13	<1.3	<25	48

TABLE 7
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

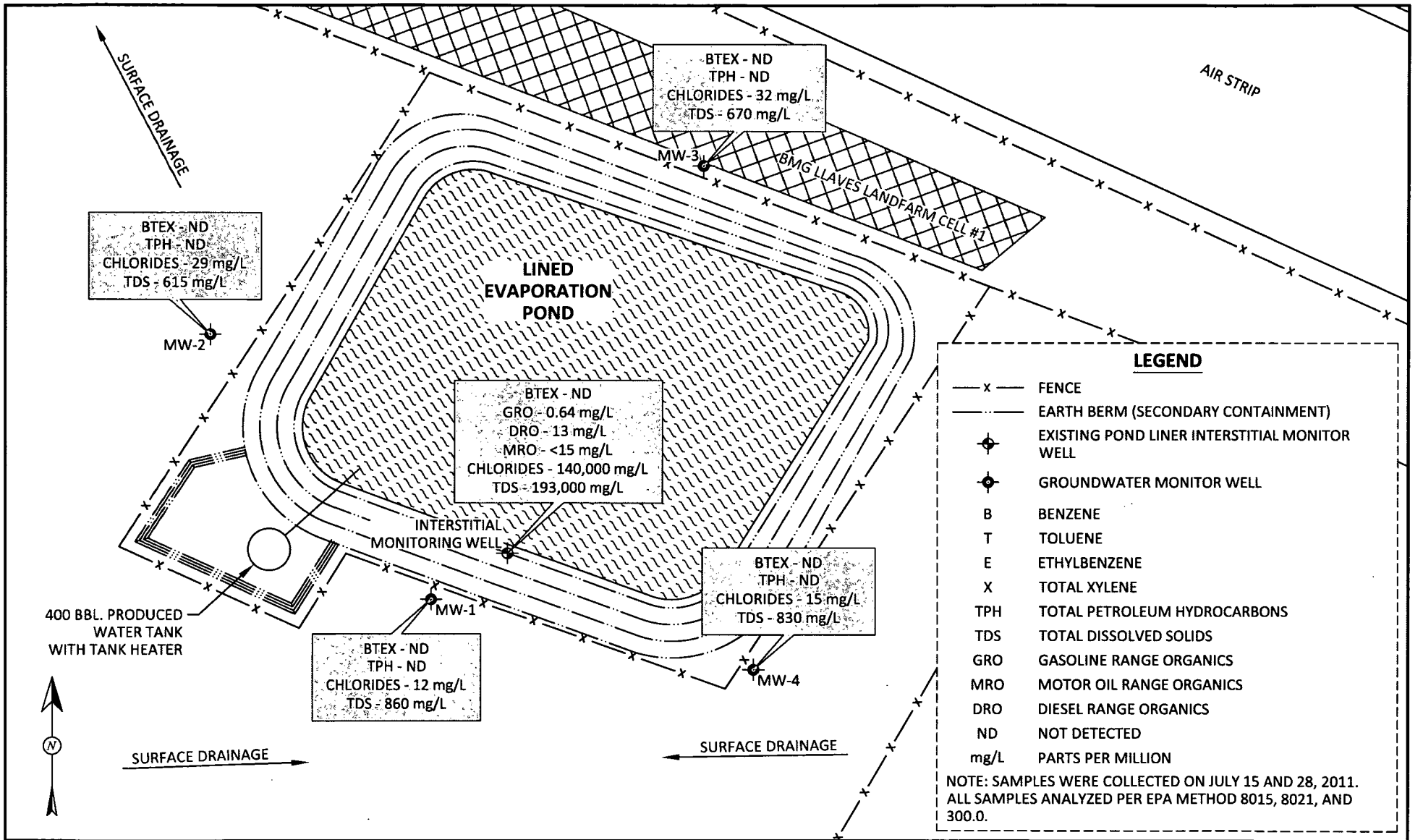
Land Farm ID	*Sample Date*	*Arsenic (mg/kg)*	*Barium (mg/kg)*	*Cadmium (mg/kg)*	*Chromium (mg/kg)*	*Copper (mg/kg)*	*Cyanide (mg/kg)*	*Iron (mg/kg)*	*Mercury (mg/kg)*	*Lead (mg/kg)*	*Manganese (mg/kg)*	*Selenium (mg/kg)*	*Silver (mg/kg)*	*Uranium (mg/kg)*	*Zinc (mg/kg)*
Cell #4 Vadose Zone	28-Jul-11	<13	92	<0.50	15	12	<0.3	18,000	<0.033	6.0	240	<13	<1.3	<25	41

TABLE 8
Vadose Zone Soil Volatile Organic Compound Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample Date	EDC (mg/kg)	EDB (mg/kg)	Total Naphthalenes (mg/kg)	Carbon Tetrachloride (mg/kg)	Chloroform (mg/kg)	1,1-dichloroethane (mg/kg)	1,1-DCE (mg/kg)	Methylene Chloride (mg/kg)	1,1,2,2-tetrachloroethane (mg/kg)	PCE (mg/kg)	1,1,1-trichloroethane (mg/kg)	1,1,2-trichloroethane (mg/kg)	TCE (mg/kg)	Vinyl Chloride (mg/kg)
Cell #1 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10
Cell #2 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #3 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #4 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

TABLE 9
Vadose Zone Soil 8270, PCBs, and Radioactivity Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Benzo(a) pyrene (mg/kg)	Phenol (mg/kg)	PCBs (mg/kg)	Radioactivity	
							Radium-226 (Pci/g)	Radium-228 (Pci/g)
				8270C	8270C	8082	901.1m	
Cell #1 Vadose Zone	VZ-1	28-Jul-11	3.5	<0.20	<0.20	<0.14	0.962	1.39
Cell #2 Vadose Zone	VZ-2	28-Jul-11	3.5	<0.050	<0.050	<0.50	0.728	1.06
Cell #3 Vadose Zone	VZ-3	28-Jul-11	3.5	<0.050	<0.050	<0.50	1.06	1.23
Cell #4 Vadose Zone	VZ-4	28-Jul-11	3.5	<0.050	<0.050	<0.50	1.26	1.33



SCALE
50 30 0 50
10
(1 INCH = 50 FEET)

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** January 4, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** January 5, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** January 5, 2012

FIGURE 1

BENSON-MONTIN-GREER
LOCATION OF BMG EVAPORATION POND AND MONITORING WELLS AND CONTAMINANT CONCENTRATIONS, JULY 2011
NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND CONTAMINANT CONCENTRATIONS, JULY 2011

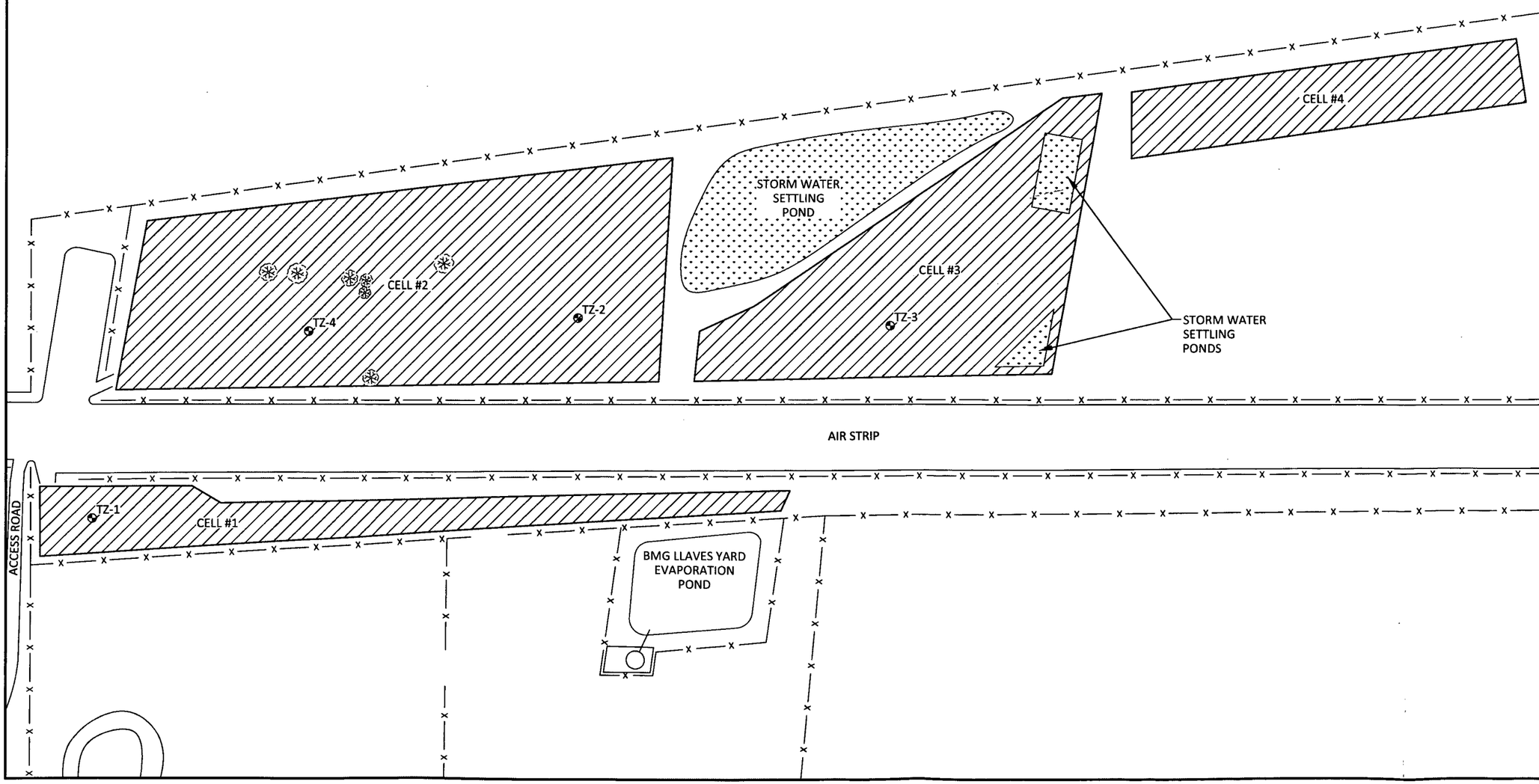
NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

SUMMARY OF SEMI-ANNUAL TREATMENT ZONE MONITORING JULY 2011

SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/kg)
					C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
07/28/11	<1.0	<1.0	<1.0	<2.0	<100	3,800	3,300	8.8

TREATMENT ZONE MONITORING LOCATIONS JULY 2011

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft.)
TZ-1	N 36°23.383' W 106°52.054'	0.5
TZ-2	N 36°23.376' W 106°51.943'	0.5
TZ-3	N 36°23.341' W 106°51.881'	0.5
TZ-4	N 36°23.403' W 106°52.002'	0.5



Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
N. Willis	April 11, 2011
REVISIONS BY:	**DATE REVISED:**
C. Lameman	January 4, 2012
CHECKED BY:	**DATE CHECKED:**
D. Watson	January 4, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	January 4, 2012

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

SUMMARY OF SEMI-ANNUAL VADOSE ZONE MONITORING JULY 2011

LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO) C6-C10 (mg/kg)	TPH (GRO, DRO, AND MRO) C10-C22 (mg/kg)	TPH (GRO, DRO, AND MRO) C22-C32 (mg/kg)	Chloride (mg/kg)
CELL #1	VZ-1	N 36°23.357' W 106°52.007'	07/28/11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	34	60	15
CELL #2	VZ-2	N 36°23.413' W 106°51.982'	07/28/11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	21	<51	<7.5
CELL #3	VZ-3	N 36°23.358' W 106°51.860'	07/28/11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	6.3
CELL #4	VZ-4	N 36°23.358' W 106°51.787'	07/28/11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.8	<49	<7.5

VADOSE ZONE SAMPLES WERE COLLECTED BETWEEN 3ft. TO 4ft. BELOW NATIVE SOIL SURFACE.

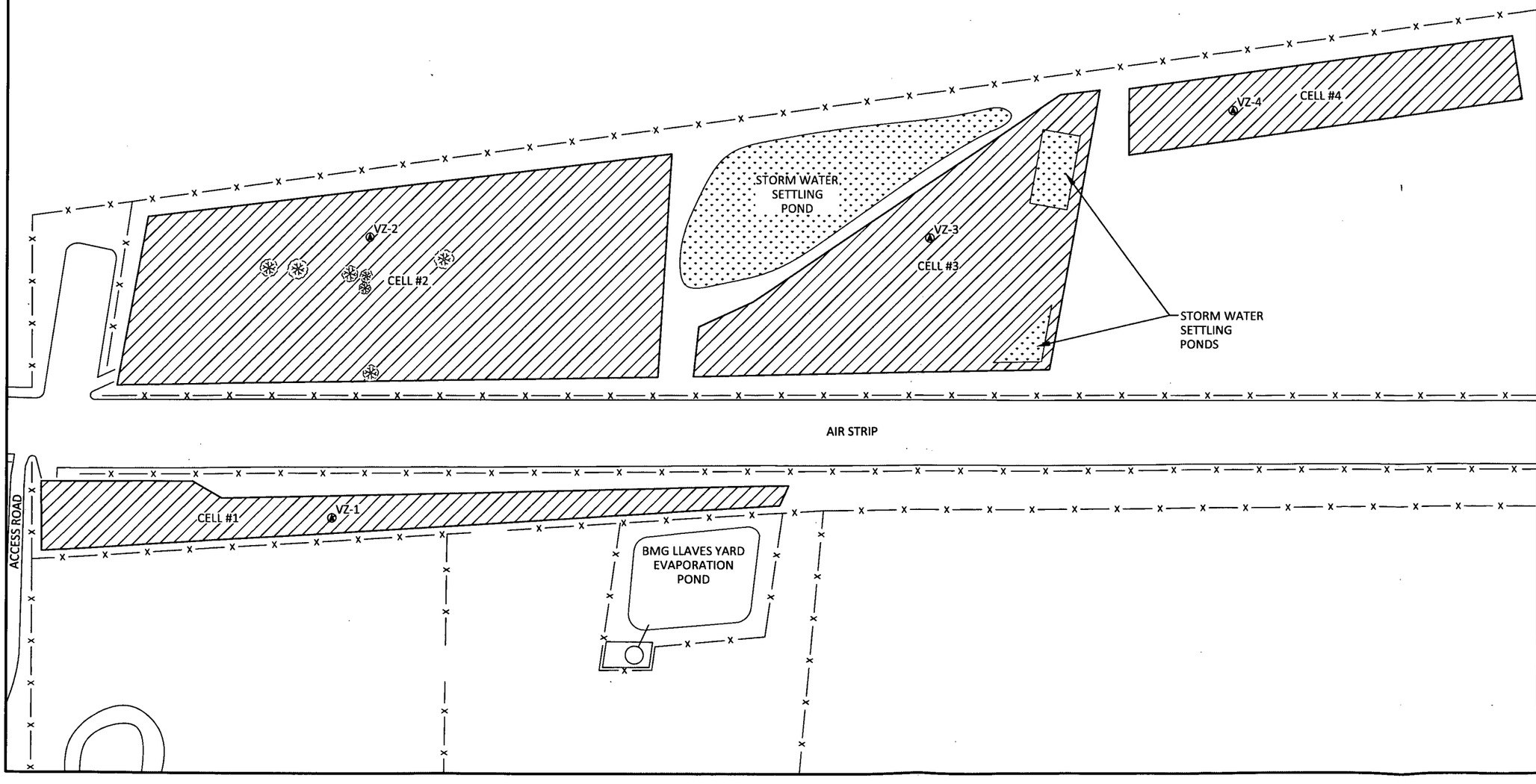


FIGURE 3

BENSON-MONTIN-GREER VADOSE ZONE MONITORING LOCATIONS AND CONTAMINANT CONCENTRATIONS, JULY 2011

NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** January 4, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** January 4, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** January 4, 2012

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. WILLIS

Project No.: AES 040605
Date: 7-15-11
Time: 1245
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1350		39.59		
MW-2					UNABLE TO ACCESS WELL AT THIS TIME
MW-3	1430		39.89		
MW-4	1322		40.41		
Interstitial	1252		9.67		

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.59 **Time:** 1350 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 1347
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1353	13.88	0.992	11.29	7.39	143.6	0.25	
1356	12.78	0.941	11.58	7.18	159.9	0.5	
1358	12.80	0.945	11.50	7.08	175.8	0.5	
							VERY LOW
							YIELD
1402							SAMPLES
							COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.68 **Time:** 1040 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-28-11
Arrival Time: 1030
Air Temp: 81°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1043	13.04	0.954	8.74	7.67	64.3	0.25	
1046	12.48	0.914	6.40	7.46	81.3	0.5	
1049	12.29	0.908	7.41	7.44	90.7	0.5	
							VERY LOW YIELD
1055							SAMPLES COLLETED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-2	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:**_____ **D.T.W.:**_____ **Thickness:**_____ **Time:**_____

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 1452
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

SEE NOTES BELOW

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Due to heavy corrosion I was unable to get into the well. Lock was frozen. Tried two different ways to get into well but did not work

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 1423
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.89 **Time:** 1430 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1432	14.99	0.988	12.40	7.82	82.9	0.25	
1435	13.65	0.877	11.12	7.43	117.8	0.5	
1438	12.62	0.867	11.11	7.22	152.5	0.5	
							LOW
							YIELD
1441							SAMPLES
							COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.41 **Time:** 1322 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 13.19
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1324	16.45	2.491	12.64	7.61	53.8	0.25	
1327	14.25	1.039	13.20	7.34	94.4	0.5	
1330	13.65	0.992	13.04	7.20	126.7	0.5	VERY
							LOW
							YIELD
1333	———	———	———	———	———	———	SAMPLES
							COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: **Interstitial Well**

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.67 **Time:** 1257 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-5-11
Arrival Time: 1243
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 12.1

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1254	19.36	184.3	1.30	7.31	-100.6	0.25	
1300							SAMPLES
							COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, July 27, 2011

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm/Pond Sampling

Order No.: 1107740

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 7/19/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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 do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	1107740	**Collection Date:**	7/15/2011 2:02:00 PM
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-01	**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	7/21/2011 6:01:20 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/21/2011 6:01:20 PM
Surr: DNOP	97.9	97.7-132		%REC	1	7/21/2011 6:01:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/20/2011 3:34:42 PM
Surr: BFB	83.8	65.4-141		%REC	2	7/20/2011 3:34:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	7/20/2011 3:34:42 PM
Toluene	ND	2.0		µg/L	2	7/20/2011 3:34:42 PM
Ethylbenzene	ND	2.0		µg/L	2	7/20/2011 3:34:42 PM
Xylenes, Total	ND	4.0		µg/L	2	7/20/2011 3:34:42 PM
Surr: 4-Bromofluorobenzene	89.1	89.6-125	S	%REC	2	7/20/2011 3:34:42 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	12	2.5		mg/L	5	7/21/2011 9:15:46 AM
EPA METHOD 7470: MERCURY						Analyst: **MBR**
Mercury	ND	0.00020		mg/L	1	7/21/2011 2:50:22 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	7/21/2011 8:13:33 AM
Barium	0.19	0.020		mg/L	1	7/21/2011 8:13:33 AM
Cadmium	ND	0.0020		mg/L	1	7/21/2011 8:13:33 AM
Chromium	0.014	0.0060		mg/L	1	7/21/2011 8:13:33 AM
Lead	ND	0.0050		mg/L	1	7/21/2011 8:13:33 AM
Selenium	ND	0.050		mg/L	1	7/21/2011 8:13:33 AM
Silver	ND	0.0050		mg/L	1	7/21/2011 8:13:33 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	860	200		mg/L	1	7/22/2011 5:08:00 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

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	1107740	**Collection Date:**	7/15/2011 2:41:00 PM
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-02	**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	7/21/2011 6:35:59 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/21/2011 6:35:59 PM
Surr: DNOP	96.4	97.7-132	S	%REC	1	7/21/2011 6:35:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/20/2011 5:04:32 PM
Surr: BFB	84.7	65.4-141		%REC	2	7/20/2011 5:04:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	7/20/2011 5:04:32 PM
Toluene	ND	2.0		µg/L	2	7/20/2011 5:04:32 PM
Ethylbenzene	ND	2.0		µg/L	2	7/20/2011 5:04:32 PM
Xylenes, Total	ND	4.0		µg/L	2	7/20/2011 5:04:32 PM
Surr: 4-Bromofluorobenzene	92.0	89.6-125		%REC	2	7/20/2011 5:04:32 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	32	2.5		mg/L	5	7/21/2011 9:38:12 AM
EPA METHOD 7470: MERCURY						Analyst: **MBR**
Mercury	ND	0.00020		mg/L	1	7/21/2011 2:52:09 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	7/21/2011 8:23:47 AM
Barium	0.074	0.020		mg/L	1	7/22/2011 1:39:23 PM
Cadmium	ND	0.0020		mg/L	1	7/21/2011 8:23:47 AM
Chromium	ND	0.0060		mg/L	1	7/21/2011 8:23:47 AM
Lead	ND	0.0050		mg/L	1	7/21/2011 8:23:47 AM
Selenium	ND	0.050		mg/L	1	7/21/2011 8:23:47 AM
Silver	ND	0.0050		mg/L	1	7/21/2011 8:23:47 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	670	200		mg/L	1	7/22/2011 5:08:00 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

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	1107740	**Collection Date:**	7/15/2011 1:33:00 PM
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-03	**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	7/21/2011 7:10:42 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/21/2011 7:10:42 PM
Surr: DNOP	119	97.7-132		%REC	1	7/21/2011 7:10:42 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/20/2011 6:37:54 PM
Surr: BFB	76.2	65.4-141		%REC	2	7/20/2011 6:37:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	7/20/2011 6:37:54 PM
Toluene	ND	2.0		µg/L	2	7/20/2011 6:37:54 PM
Ethylbenzene	ND	2.0		µg/L	2	7/20/2011 6:37:54 PM
Xylenes, Total	ND	4.0		µg/L	2	7/20/2011 6:37:54 PM
Surr: 4-Bromofluorobenzene	83.6	89.6-125	S	%REC	2	7/20/2011 6:37:54 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	15	2.5		mg/L	5	7/21/2011 10:00:33 AM
EPA METHOD 7470: MERCURY						Analyst: **MBR**
Mercury	ND	0.00020		mg/L	1	7/21/2011 2:54:02 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	7/21/2011 8:27:49 AM
Barium	0.093	0.020		mg/L	1	7/22/2011 1:41:24 PM
Cadmium	ND	0.0020		mg/L	1	7/21/2011 8:27:49 AM
Chromium	0.0097	0.0060		mg/L	1	7/21/2011 8:27:49 AM
Lead	ND	0.0050		mg/L	1	7/21/2011 8:27:49 AM
Selenium	ND	0.050		mg/L	1	7/21/2011 8:27:49 AM
Silver	ND	0.0050		mg/L	1	7/21/2011 8:27:49 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	830	200		mg/L	1	7/22/2011 5:08:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	1107740	**Collection Date:**	7/15/2011 1:00:00 PM
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	13	3.0		mg/L	1	7/21/2011 7:45:27 PM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	7/21/2011 7:45:27 PM
Surr: DNOP	98.6	97.7-132		%REC	1	7/21/2011 7:45:27 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.64	0.10		mg/L	2	7/20/2011 7:08:00 PM
Surr: BFB	87.1	65.4-141		%REC	2	7/20/2011 7:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	7/20/2011 7:08:00 PM
Toluene	ND	2.0		µg/L	2	7/20/2011 7:08:00 PM
Ethylbenzene	ND	2.0		µg/L	2	7/20/2011 7:08:00 PM
Xylenes, Total	ND	4.0		µg/L	2	7/20/2011 7:08:00 PM
Surr: 4-Bromofluorobenzene	83.6	89.6-125	S	%REC	2	7/20/2011 7:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	140000	5000		mg/L	10000	7/22/2011 1:16:58 PM
EPA METHOD 7470: MERCURY						Analyst: **MBR**
Mercury	ND	0.00020		mg/L	1	7/21/2011 2:59:32 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	0.31	0.20		mg/L	10	7/21/2011 8:56:07 AM
Barium	89	2.0		mg/L	100	7/22/2011 1:43:27 PM
Cadmium	0.047	0.020		mg/L	10	7/21/2011 8:56:07 AM
Chromium	ND	0.060		mg/L	10	7/21/2011 8:56:07 AM
Lead	ND	0.050		mg/L	10	7/21/2011 8:56:07 AM
Selenium	ND	0.50		mg/L	10	7/21/2011 8:56:07 AM
Silver	ND	0.050		mg/L	10	7/21/2011 8:56:07 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	193000	1000		mg/L	1	7/22/2011 5:08:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Trip Blank
Lab Order:	1107740	**Collection Date:**	
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-05	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/20/2011 7:38:07 PM
Surr: BFB	79.2	65.4-141		%REC	1	7/20/2011 7:38:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	7/20/2011 7:38:07 PM
Toluene	ND	1.0		µg/L	1	7/20/2011 7:38:07 PM
Ethylbenzene	ND	1.0		µg/L	1	7/20/2011 7:38:07 PM
Xylenes, Total	ND	2.0		µg/L	1	7/20/2011 7:38:07 PM
Surr: 4-Bromofluorobenzene	83.8	89.6-125	S	%REC	1	7/20/2011 7:38:07 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
MCL	Maximum Contaminant Level
NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit
S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Pond Sampling **Work Order:** 1107740

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID: **R46673**		Analysis Date: 7/20/2011 12:29:40 PM			
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R46673**		Analysis Date: 7/21/2011 2:54:17 AM			
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R46705**		Analysis Date: 7/21/2011 1:05:10 PM			
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R46705**		Analysis Date: 7/22/2011 12:33:35 AM			
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R46705**		Analysis Date: 7/22/2011 10:51:02 AM			
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID: **R46673**		Analysis Date: 7/20/2011 12:40:54 PM			
Chloride	4.950	mg/L	0.50	5	0	99.0	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R46673**		Analysis Date: 7/21/2011 3:05:30 AM			
Chloride	5.003	mg/L	0.50	5	0	100	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R46705**		Analysis Date: 7/21/2011 1:16:22 PM			
Chloride	4.648	mg/L	0.50	5	0	93.0	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R46705**		Analysis Date: 7/22/2011 12:44:48 AM			
Chloride	5.031	mg/L	0.50	5	0	101	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R46705**		Analysis Date: 7/22/2011 11:02:15 AM			
Chloride	4.679	mg/L	0.50	5	0	93.6	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-27693		*MBLK*				Batch ID: **27693**		Analysis Date: 7/21/2011 4:16:36 PM			
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-27693		*LCS*				Batch ID: **27693**		Analysis Date: 7/21/2011 4:51:46 PM			
Diesel Range Organics (DRO)	6.487	mg/L	1.0	5	0	130	74	157			
Sample ID: LCSD-27693		*LCSD*				Batch ID: **27693**		Analysis Date: 7/21/2011 5:26:42 PM			
Diesel Range Organics (DRO)	6.564	mg/L	1.0	5	0	131	74	157	1.18	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1107740-02A MSD		*MSD*				Batch ID: **R46659**		Analysis Date: 7/20/2011 6:07:47 PM			
Gasoline Range Organics (GRO)	1.042	mg/L	0.10	1	0	104	75.4	121	2.09	10.5	
Sample ID: 5ML-RB		*MBLK*				Batch ID: **R46659**		Analysis Date: 7/20/2011 9:45:07 AM			
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R46659**		Analysis Date: 7/20/2011 11:45:31 AM			
Gasoline Range Organics (GRO)	0.5376	mg/L	0.050	0.5	0	108	81.8	120			
Sample ID: 1107740-02A MS		*MS*				Batch ID: **R46659**		Analysis Date: 7/20/2011 5:34:47 PM			
Gasoline Range Organics (GRO)	1.021	mg/L	0.10	1	0	102	75.4	121			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Pond Sampling **Work Order:** 1107740

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1107740-01A MSD		*MSD*				Batch ID:	**R46659**	Analysis Date:		7/20/2011 4:34:36 PM	
Benzene	40.00	µg/L	2.0	40	0	100	92.7	114	0.0800	14	
Toluene	40.12	µg/L	2.0	40	0	100	94.6	116	1.49	16.2	
Ethylbenzene	38.06	µg/L	2.0	40	0	95.2	94.3	114	1.35	12.6	
Xylenes, Total	116.7	µg/L	4.0	120	0	97.3	95.7	116	0.584	11.9	
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R46659**	Analysis Date:		7/20/2011 9:45:07 AM	
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:	**R46659**	Analysis Date:		7/20/2011 12:15:41 PM	
Benzene	20.89	µg/L	1.0	20	0	104	80	120			
Toluene	21.20	µg/L	1.0	20	0	106	80	120			
Ethylbenzene	19.66	µg/L	1.0	20	0	98.3	80	120			
Xylenes, Total	60.91	µg/L	2.0	60	0	102	80	120			
Sample ID: 1107740-01A MS		*MS*				Batch ID:	**R46659**	Analysis Date:		7/20/2011 4:04:41 PM	
Benzene	40.03	µg/L	2.0	40	0	100	92.7	114			
Toluene	39.53	µg/L	2.0	40	0	98.8	94.6	116			
Ethylbenzene	37.55	µg/L	2.0	40	0	93.9	94.3	114			S
Xylenes, Total	116.1	µg/L	4.0	120	0	96.7	95.7	116			
Method: EPA Method 7470: Mercury											
Sample ID: MB-27699		*MBLK*				Batch ID:	**27699**	Analysis Date:		7/21/2011 2:38:03 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-27699		*LCS*				Batch ID:	**27699**	Analysis Date:		7/21/2011 2:39:48 PM	
Mercury	0.004873	mg/L	0.00020	0.005	0	97.5	80	120			
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-27683		*MBLK*				Batch ID:	**27683**	Analysis Date:		7/21/2011 7:24:04 AM	
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-27683		*LCS*				Batch ID:	**27683**	Analysis Date:		7/21/2011 7:26:11 AM	
Arsenic	0.5225	mg/L	0.020	0.5	0	104	80	120			
Barium	0.4948	mg/L	0.020	0.5	0	99.0	80	120			
Cadmium	0.4885	mg/L	0.0020	0.5	0	97.7	80	120			
Chromium	0.5178	mg/L	0.0060	0.5	0	104	80	120			
Lead	0.4830	mg/L	0.0050	0.5	0	96.6	80	120			
Selenium	0.5014	mg/L	0.050	0.5	0	100	80	120			
Silver	0.1015	mg/L	0.0050	0.1	0	102	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Pond Sampling **Work Order:** 1107740

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-27692		*MBLK*				Batch ID:	**27692**	Analysis Date:	7/22/2011 5:08:00 PM		
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-27692		*LCS*				Batch ID:	**27692**	Analysis Date:	7/22/2011 5:08:00 PM		
Total Dissolved Solids	1023	mg/L	20.0	1000	6	102	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL Date Received: 7/19/2011

Work Order Number 1107740 Received by: MMG

Checklist completed by: _____ 07/19/11 Sample ID labels checked by: MG
Signature Date Initials

Matrix: Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐				
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐			
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑				
Chain of custody present?	Yes ☑	No ☐					
Chain of custody signed when relinquished and received?	Yes ☑	No ☐					
Chain of custody agrees with sample labels?	Yes ☑	No ☐					
Samples in proper container/bottle?	Yes ☑	No ☐					
Sample containers intact?	Yes ☑	No ☐					
Sufficient sample volume for indicated test?	Yes ☑	No ☐					
All samples received within holding time?	Yes ☑	No ☐			Number of preserved bottles checked for pH:		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐				
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐				
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐		<2 >12 unless noted below.		
Container/Temp Blank temperature?	1.0°	<6° C Acceptable If given sufficient time to cool.					

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: ANIMAS ENVIRONMENTAL SERVICES

Address: 624 E. COMANCHE FARMINGTON, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: BMG LANDFARM/POND SAMPLING

Project #: AES 040605

Project Manager: R. KENNEMER

Sampler: N. WILLIS

On Ice: ☐ Yes ☒ No

Sample Temperature: 1.0°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1107740	BTEX + MTBE + PMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDES 300.0	TDS 2450 C	RCRA 8 Metals 6010/7471		Air Bubbles (Y or N)
7-15-11	1402	MW-1	3-500mL PL. 6-40mL GL.	1-HNO_3 2-NON 5-HCl	-1	X		X									X	X	X		
	1441	MW-3			-2	X		X									X	X	X		
	1333	MW-4			-3	X		X									X	X	X		
	1300	INTERSTITIAL WELL			-4	X		X									X	X	X		
		TRIP BLANK	2-40mL GL.	HCl	-5	X		X									X	X			

Date:	Time:	Relinquished by:	Received by:
7-18-11	0830	Nate Wills	Deborah Watson
7-18-11	1630	Deborah Watson	Michelle Gp. 7/19/11 9:30

Remarks: H_2O

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, August 12, 2011

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

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

RE: BMG Landfarm And Pond

Order No.: 1108037

Dear Debbie Watson:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 8/1/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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 do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Aug-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	1108037	**Collection Date:**	7/28/2011 10:55:00 AM
Project:	BMG Landfarm And Pond	**Date Received:**	8/1/2011
Lab ID:	1108037-01	**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	8/4/2011 5:24:07 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/4/2011 5:24:07 AM
Surr: DNOP	94.1	81.1-147		%REC	1	8/4/2011 5:24:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/5/2011 3:18:46 AM
Surr: BFB	93.0	65.4-141		%REC	1	8/5/2011 3:18:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	8/5/2011 3:18:46 AM
Toluene	ND	1.0		µg/L	1	8/5/2011 3:18:46 AM
Ethylbenzene	ND	1.0		µg/L	1	8/5/2011 3:18:46 AM
Xylenes, Total	ND	2.0		µg/L	1	8/5/2011 3:18:46 AM
Surr: 4-Bromofluorobenzene	87.3	89.6-125	S	%REC	1	8/5/2011 3:18:46 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	29	10		mg/L	20	8/2/2011 6:22:13 PM
EPA METHOD 7470: MERCURY						Analyst: **ELS**
Mercury	ND	0.00020		mg/L	1	8/3/2011 1:21:57 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	8/5/2011 3:49:17 PM
Barium	0.47	0.020		mg/L	1	8/5/2011 3:49:17 PM
Cadmium	ND	0.0020		mg/L	1	8/5/2011 3:49:17 PM
Chromium	0.034	0.0060		mg/L	1	8/5/2011 3:49:17 PM
Lead	0.0090	0.0050		mg/L	1	8/5/2011 3:49:17 PM
Selenium	ND	0.050		mg/L	1	8/5/2011 3:49:17 PM
Silver	ND	0.0050		mg/L	1	8/5/2011 3:49:17 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	615	100		mg/L	1	8/4/2011 3:17:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Aug-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Trip Blank
Lab Order:	1108037	**Collection Date:**	
Project:	BMG Landfarm And Pond	**Date Received:**	8/1/2011
Lab ID:	1108037-02	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	8/4/2011 9:18:30 PM
Toluene	ND	1.0		µg/L	1	8/4/2011 9:18:30 PM
Ethylbenzene	ND	1.0		µg/L	1	8/4/2011 9:18:30 PM
Xylenes, Total	ND	2.0		µg/L	1	8/4/2011 9:18:30 PM
Surr: 4-Bromofluorobenzene	88.4	89.6-125	S	%REC	1	8/4/2011 9:18:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm And Pond **Work Order:** 1108037

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R46925**	Analysis Date:		8/2/2011 12:52:18 PM	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R46925**	Analysis Date:		8/2/2011 1:09:42 PM	
Chloride	4.767	mg/L	0.50	5	0	95.3	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-27883		*MBLK*				Batch ID:	**27883**	Analysis Date:		8/4/2011 2:32:22 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-27883		*LCS*				Batch ID:	**27883**	Analysis Date:		8/4/2011 3:06:44 AM	
Diesel Range Organics (DRO)	4.709	mg/L	1.0	5	0	94.2	74	157			
Sample ID: LCSD-27883		*LCSD*				Batch ID:	**27883**	Analysis Date:		8/4/2011 3:41:06 AM	
Diesel Range Organics (DRO)	4.828	mg/L	1.0	5	0	96.6	74	157	2.50	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R47026**	Analysis Date:		8/4/2011 9:34:25 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R47026**	Analysis Date:		8/4/2011 11:34:52 AM	
Gasoline Range Organics (GRO)	0.5554	mg/L	0.050	0.5	0	111	92.1	117			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R47026**	Analysis Date:		8/4/2011 9:34:25 AM	
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:	**R47026**	Analysis Date:		8/4/2011 12:04:57 PM	
Benzene	20.01	µg/L	1.0	20	0	100	80	120			
Toluene	20.09	µg/L	1.0	20	0	100	80	120			
Ethylbenzene	19.92	µg/L	1.0	20	0	99.6	80	120			
Xylenes, Total	59.89	µg/L	2.0	60	0	99.8	80	120			
Method: EPA Method 7470: Mercury											
Sample ID: MB-27870		*MBLK*				Batch ID:	**27870**	Analysis Date:		8/3/2011 11:40:11 AM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-27870		*LCS*				Batch ID:	**27870**	Analysis Date:		8/3/2011 11:41:58 AM	
Mercury	0.004967	mg/L	0.00020	0.005	3E-05	98.8	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm And Pond **Work Order:** 1108037

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-27894		*MBLK*				Batch ID:	**27894**	Analysis Date:	8/5/2011 3:44:21 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-27894		*LCS*				Batch ID:	**27894**	Analysis Date:	8/5/2011 3:46:57 PM		
Arsenic	0.5019	mg/L	0.020	0.5	0	100	80	120			
Barium	0.4833	mg/L	0.020	0.5	0	96.7	80	120			
Cadmium	0.4885	mg/L	0.0020	0.5	0	97.7	80	120			
Chromium	0.4856	mg/L	0.0060	0.5	0	97.1	80	120			
Lead	0.4724	mg/L	0.0050	0.5	0	94.5	80	120			
Selenium	0.4633	mg/L	0.050	0.5	0	92.7	80	120			
Silver	0.1009	mg/L	0.0050	0.1	0	101	80	120			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-27875		*MBLK*				Batch ID:	**27875**	Analysis Date:	8/4/2011 3:17:00 PM		
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-27875		*LCS*				Batch ID:	**27875**	Analysis Date:	8/4/2011 3:17:00 PM		
Total Dissolved Solids	1035	mg/L	20.0	1000	11	102	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Chain-of-Custody Record

Client: Animas Environmental Services LLC

Mailing Address: 624 E. Comanche Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: BMG Landfarm & Pond

Project #: AES 040605

Project Manager: D. Watson

Sampler: N. Willis

On Ice: ☑ Yes ☐ No

Sample Temperature: 4.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1108037	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	TDS 2450 C	Chlorides 300.0	Metals 6010/6471		Air Bubbles (Y or N)
7-28-11	1055	H_2O	MW-2	6-40mL glass 2-500mL plastic	5-HCl, 2-non 1-HNO_3	-1	X		X									X	X	X		
			Trip Blank	2-40mL	HCl	-2	X															

Date:	Time:	Relinquished by:	Received by:	Date	Time
7-29-11	1505			7/30/11	11:32
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Metals: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, September 01, 2011

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

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

RE: BMG Landfarm & Pond

Order No.: 1108122

Dear Debbie Watson:

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 8/1/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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 do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Treatment Zone Composite
Lab Order:	1108122	**Collection Date:**	7/28/2011 2:01:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	3800	200		mg/Kg	20	8/8/2011 10:39:39 PM
Motor Oil Range Organics (MRO)	3300	1000		mg/Kg	20	8/8/2011 10:39:39 PM
Surr: DNOP	0	73.4-123	S	%REC	20	8/8/2011 10:39:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	8/3/2011 12:13:25 PM
Surr: BFB	98.2	75.2-136		%REC	20	8/3/2011 12:13:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		mg/Kg	20	8/3/2011 12:13:25 PM
Toluene	ND	1.0		mg/Kg	20	8/3/2011 12:13:25 PM
Ethylbenzene	ND	1.0		mg/Kg	20	8/3/2011 12:13:25 PM
Xylenes, Total	ND	2.0		mg/Kg	20	8/3/2011 12:13:25 PM
Surr: 4-Bromofluorobenzene	98.0	90.3-115		%REC	20	8/3/2011 12:13:25 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	8.8	7.5		mg/Kg	5	8/8/2011 5:32:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 1:08:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1221	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1232	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1242	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1248	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1254	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1260	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Surr: Decachlorobiphenyl	80.0	20.2-86.8		%REC	1	8/9/2011 2:37:45 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	34	9.7		mg/Kg	1	8/5/2011 1:32:15 AM
Motor Oil Range Organics (MRO)	60	48		mg/Kg	1	8/5/2011 1:32:15 AM
Surr: DNOP	82.1	73.4-123		%REC	1	8/5/2011 1:32:15 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 1:11:07 PM
Surr: BFB	95.3	75.2-136		%REC	1	8/3/2011 1:11:07 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	2.9	1.5		mg/Kg	5	8/8/2011 6:07:01 PM
Chloride	15	7.5		mg/Kg	5	8/8/2011 6:07:01 PM
Nitrogen, Nitrate (As N)	3.3	1.5		mg/Kg	5	8/8/2011 6:07:01 PM
Sulfate	7.9	7.5		mg/Kg	5	8/8/2011 6:07:01 PM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	8/9/2011 11:17:26 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	25		mg/Kg	10	8/10/2011 9:08:19 AM
Barium	150	1.0		mg/Kg	10	8/11/2011 12:06:00 PM
Cadmium	ND	1.0		mg/Kg	10	8/10/2011 9:08:19 AM
Calcium	5600	250		mg/Kg	10	8/10/2011 9:08:19 AM
Chromium	16	3.0		mg/Kg	10	8/10/2011 9:08:19 AM
Copper	12	3.0		mg/Kg	10	8/10/2011 9:08:19 AM
Iron	19000	500		mg/Kg	500	8/8/2011 8:35:13 AM
Lead	9.1	2.5		mg/Kg	10	8/10/2011 9:08:19 AM
Magnesium	3500	250		mg/Kg	10	8/10/2011 9:08:19 AM
Manganese	410	1.0		mg/Kg	10	8/11/2011 12:06:00 PM
Potassium	2400	500		mg/Kg	10	8/10/2011 9:08:19 AM
Selenium	ND	25		mg/Kg	10	8/10/2011 9:08:19 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 1:08:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Silver	ND	2.5		mg/Kg	10	8/10/2011 9:08:19 AM
Sodium	ND	250		mg/Kg	10	8/10/2011 9:08:19 AM
Uranium	ND	50		mg/Kg	10	8/10/2011 9:08:19 AM
Zinc	55	25		mg/Kg	10	8/26/2011 7:12:26 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Acenaphthylene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Anthracene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 5:40:56 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Chrysene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	8/9/2011 5:40:56 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	8/9/2011 5:40:56 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 5:40:56 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	8/9/2011 5:40:56 PM
Fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Fluorene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2-Methylphenol	ND	0.50		mg/Kg	1	8/9/2011 5:40:56 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Naphthalene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	8/9/2011 5:40:56 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	8/9/2011 5:40:56 PM
Phenanthrene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Phenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Surr: 2,4,6-Tribromophenol	89.0	29.4-125		%REC	1	8/9/2011 5:40:56 PM
Surr: 2-Fluorobiphenyl	90.6	21-131		%REC	1	8/9/2011 5:40:56 PM
Surr: 2-Fluorophenol	80.5	25.7-110		%REC	1	8/9/2011 5:40:56 PM
Surr: 4-Terphenyl-d14	91.2	36.2-172		%REC	1	8/9/2011 5:40:56 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 1:08:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: Nitrobenzene-d5	93.8	23.2-122		%REC	1	8/9/2011 5:40:56 PM
Surr: Phenol-d5	80.7	25.2-114		%REC	1	8/9/2011 5:40:56 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 2:46:21 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 2:46:21 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 2:46:21 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 2:46:21 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 2:46:21 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 2:46:21 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 2:46:21 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 1:08:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 2:46:21 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 2:46:21 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 2:46:21 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%REC	1	8/9/2011 2:46:21 AM
Surr: 4-Bromofluorobenzene	90.1	70-130		%REC	1	8/9/2011 2:46:21 AM
Surr: Dibromofluoromethane	87.4	63.1-128		%REC	1	8/9/2011 2:46:21 AM
Surr: Toluene-d8	92.8	70-130		%REC	1	8/9/2011 2:46:21 AM
SM4500-H+B: PH						Analyst: **KS**
pH	8.32	0.100		pH Units	1	8/4/2011 1:52:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:38:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1221	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1232	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1242	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1248	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1254	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1260	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Surr: Decachlorobiphenyl	52.0	20.2-86.8		%REC	1	8/9/2011 4:54:06 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	21	10		mg/Kg	1	8/5/2011 2:06:33 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	8/5/2011 2:06:33 AM
Surr: DNOP	87.7	73.4-123		%REC	1	8/5/2011 2:06:33 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 1:40:04 PM
Surr: BFB	95.5	75.2-136		%REC	1	8/3/2011 1:40:04 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	1.5		mg/Kg	5	8/8/2011 6:41:51 PM
Chloride	ND	7.5		mg/Kg	5	8/8/2011 6:41:51 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	8/8/2011 6:41:51 PM
Sulfate	9.9	7.5		mg/Kg	5	8/8/2011 6:41:51 PM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	8/9/2011 11:19:13 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	13		mg/Kg	5	8/8/2011 8:39:53 AM
Barium	110	0.50		mg/Kg	5	8/8/2011 8:39:53 AM
Cadmium	ND	0.50		mg/Kg	5	8/8/2011 8:39:53 AM
Calcium	8900	250		mg/Kg	10	8/10/2011 9:10:24 AM
Chromium	7.6	1.5		mg/Kg	5	8/8/2011 8:39:53 AM
Copper	6.4	1.5		mg/Kg	5	8/8/2011 8:39:53 AM
Iron	12000	500		mg/Kg	500	8/8/2011 8:41:57 AM
Lead	5.4	1.3		mg/Kg	5	8/8/2011 8:39:53 AM
Magnesium	1800	250		mg/Kg	10	8/10/2011 9:10:24 AM
Manganese	280	50		mg/Kg	500	8/8/2011 8:41:57 AM
Potassium	820	500		mg/Kg	10	8/10/2011 9:10:24 AM
Selenium	ND	13		mg/Kg	5	8/8/2011 8:39:53 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:38:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Silver	ND	1.3		mg/Kg	5	8/8/2011 8:39:53 AM
Sodium	ND	250		mg/Kg	10	8/10/2011 9:10:24 AM
Uranium	ND	25		mg/Kg	5	8/8/2011 8:39:53 AM
Zinc	28	13		mg/Kg	5	8/8/2011 8:39:53 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:10:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Chrysene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	8/9/2011 7:10:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	8/9/2011 7:10:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:10:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	8/9/2011 7:10:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Fluorene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:10:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Naphthalene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	8/9/2011 7:10:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	8/9/2011 7:10:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Phenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Surr: 2,4,6-Tribromophenol	94.0	29.4-125		%REC	1	8/9/2011 7:10:19 PM
Surr: 2-Fluorobiphenyl	100	21-131		%REC	1	8/9/2011 7:10:19 PM
Surr: 2-Fluorophenol	89.8	25.7-110		%REC	1	8/9/2011 7:10:19 PM
Surr: 4-Terphenyl-d14	93.3	36.2-172		%REC	1	8/9/2011 7:10:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:38:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: Nitrobenzene-d5	101	23.2-122		%REC	1	8/9/2011 7:10:19 PM
Surr: Phenol-d5	89.4	25.2-114		%REC	1	8/9/2011 7:10:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 3:14:29 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 3:14:29 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 3:14:29 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 3:14:29 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 3:14:29 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 3:14:29 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 3:14:29 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Estimated value	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
NC Non-Chlorinated	ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit	S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:38:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 3:14:29 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 3:14:29 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 3:14:29 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Surr: 1,2-Dichloroethane-d4	85.6	70-130		%REC	1	8/9/2011 3:14:29 AM
Surr: 4-Bromofluorobenzene	91.3	70-130		%REC	1	8/9/2011 3:14:29 AM
Surr: Dibromofluoromethane	87.8	63.1-128		%REC	1	8/9/2011 3:14:29 AM
Surr: Toluene-d8	92.4	70-130		%REC	1	8/9/2011 3:14:29 AM
SM4500-H+B: PH						Analyst: **KS**
pH	8.63	0.100		pH Units	1	8/4/2011 1:52:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:12:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1221	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1232	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1242	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1248	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1254	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1260	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Surr: Decachlorobiphenyl	70.0	20.2-86.8		%REC	1	8/9/2011 6:24:32 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/5/2011 2:40:38 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/5/2011 2:40:38 AM
Surr: DNOP	80.1	73.4-123		%REC	1	8/5/2011 2:40:38 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 2:09:00 PM
Surr: BFB	95.8	75.2-136		%REC	1	8/3/2011 2:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	3.1	0.30		mg/Kg	1	8/8/2011 7:16:41 PM
Chloride	6.3	1.5		mg/Kg	1	8/8/2011 7:16:41 PM
Nitrogen, Nitrate (As N)	0.39	0.30		mg/Kg	1	8/8/2011 7:16:41 PM
Sulfate	350	30		mg/Kg	20	8/8/2011 7:34:05 PM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	8/9/2011 11:21:01 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	13		mg/Kg	5	8/8/2011 8:44:17 AM
Barium	97	0.50		mg/Kg	5	8/8/2011 8:44:17 AM
Cadmium	ND	0.50		mg/Kg	5	8/8/2011 8:44:17 AM
Calcium	8000	250		mg/Kg	10	8/10/2011 9:12:27 AM
Chromium	15	1.5		mg/Kg	5	8/8/2011 8:44:17 AM
Copper	11	1.5		mg/Kg	5	8/8/2011 8:44:17 AM
Iron	19000	500		mg/Kg	500	8/8/2011 8:57:26 AM
Lead	6.4	1.3		mg/Kg	5	8/8/2011 8:44:17 AM
Magnesium	3100	250		mg/Kg	10	8/10/2011 9:12:27 AM
Manganese	340	50		mg/Kg	500	8/8/2011 8:57:26 AM
Potassium	2100	500		mg/Kg	10	8/10/2011 9:12:27 AM
Selenium	ND	13		mg/Kg	5	8/8/2011 8:44:17 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:12:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Silver	ND	1.3		mg/Kg	5	8/8/2011 8:44:17 AM
Sodium	ND	250		mg/Kg	10	8/10/2011 9:12:27 AM
Uranium	ND	25		mg/Kg	5	8/8/2011 8:44:17 AM
Zinc	48	13		mg/Kg	5	8/8/2011 8:44:17 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Acenaphthylene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:40:00 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Chrysene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	8/9/2011 7:40:00 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	8/9/2011 7:40:00 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:40:00 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	8/9/2011 7:40:00 PM
Fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Fluorene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2-Methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:40:00 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Naphthalene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	8/9/2011 7:40:00 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	8/9/2011 7:40:00 PM
Phenanthrene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Phenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Surr: 2,4,6-Tribromophenol	37.6	29.4-125		%REC	1	8/9/2011 7:40:00 PM
Surr: 2-Fluorobiphenyl	37.9	21-131		%REC	1	8/9/2011 7:40:00 PM
Surr: 2-Fluorophenol	35.1	25.7-110		%REC	1	8/9/2011 7:40:00 PM
Surr: 4-Terphenyl-d14	39.6	36.2-172		%REC	1	8/9/2011 7:40:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:12:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: Nitrobenzene-d5	37.0	23.2-122		%REC	1	8/9/2011 7:40:00 PM
Surr: Phenol-d5	31.6	25.2-114		%REC	1	8/9/2011 7:40:00 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 3:42:35 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 3:42:35 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 3:42:35 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 3:42:35 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 3:42:35 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 3:42:35 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 3:42:35 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:12:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 3:42:35 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 3:42:35 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 3:42:35 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Surr: 1,2-Dichloroethane-d4	86.7	70-130		%REC	1	8/9/2011 3:42:35 AM
Surr: 4-Bromofluorobenzene	91.5	70-130		%REC	1	8/9/2011 3:42:35 AM
Surr: Dibromofluoromethane	85.8	63.1-128		%REC	1	8/9/2011 3:42:35 AM
Surr: Toluene-d8	89.7	70-130		%REC	1	8/9/2011 3:42:35 AM
SM4500-H+B: PH						Analyst: **KS**
pH	8.04	0.100		pH Units	1	8/4/2011 1:52:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #4 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 11:35:00 AM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1221	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1232	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1242	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1248	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1254	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1260	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Surr: Decachlorobiphenyl	62.8	20.2-86.8		%REC	1	8/9/2011 7:09:55 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/5/2011 3:14:44 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/5/2011 3:14:44 AM
Surr: DNOP	80.0	73.4-123		%REC	1	8/5/2011 3:14:44 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 2:37:56 PM
Surr: BFB	95.8	75.2-136		%REC	1	8/3/2011 2:37:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	5.3	1.5		mg/Kg	5	8/8/2011 8:26:19 PM
Chloride	ND	7.5		mg/Kg	5	8/8/2011 8:26:19 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	8/8/2011 8:26:19 PM
Sulfate	10	7.5		mg/Kg	5	8/8/2011 8:26:19 PM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	8/9/2011 11:22:49 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	13		mg/Kg	5	8/8/2011 8:59:49 AM
Barium	92	0.50		mg/Kg	5	8/8/2011 8:59:49 AM
Cadmium	ND	0.50		mg/Kg	5	8/8/2011 8:59:49 AM
Calcium	7000	250		mg/Kg	10	8/10/2011 9:14:33 AM
Chromium	15	1.5		mg/Kg	5	8/8/2011 8:59:49 AM
Copper	12	1.5		mg/Kg	5	8/8/2011 8:59:49 AM
Iron	18000	500		mg/Kg	500	8/8/2011 9:01:55 AM
Lead	6.0	1.3		mg/Kg	5	8/8/2011 8:59:49 AM
Magnesium	2300	250		mg/Kg	10	8/10/2011 9:14:33 AM
Manganese	240	0.50		mg/Kg	5	8/8/2011 8:59:49 AM
Potassium	1500	500		mg/Kg	10	8/10/2011 9:14:33 AM
Selenium	ND	13		mg/Kg	5	8/8/2011 8:59:49 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #4 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 11:35:00 AM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Silver	ND	1.3		mg/Kg	5	8/8/2011 8:59:49 AM
Sodium	ND	250		mg/Kg	10	8/10/2011 9:14:33 AM
Uranium	ND	25		mg/Kg	5	8/8/2011 8:59:49 AM
Zinc	41	13		mg/Kg	5	8/8/2011 8:59:49 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Acenaphthylene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Anthracene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 8:09:41 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Chrysene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	8/9/2011 8:09:41 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	8/9/2011 8:09:41 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 8:09:41 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	8/9/2011 8:09:41 PM
Fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Fluorene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2-Methylphenol	ND	0.50		mg/Kg	1	8/9/2011 8:09:41 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Naphthalene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	8/9/2011 8:09:41 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	8/9/2011 8:09:41 PM
Phenanthrene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Phenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Surr: 2,4,6-Tribromophenol	63.1	29.4-125		%REC	1	8/9/2011 8:09:41 PM
Surr: 2-Fluorobiphenyl	59.8	21-131		%REC	1	8/9/2011 8:09:41 PM
Surr: 2-Fluorophenol	50.1	25.7-110		%REC	1	8/9/2011 8:09:41 PM
Surr: 4-Terphenyl-d14	67.9	36.2-172		%REC	1	8/9/2011 8:09:41 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #4 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 11:35:00 AM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: Nitrobenzene-d5	53.5	23.2-122		%REC	1	8/9/2011 8:09:41 PM
Surr: Phenol-d5	50.8	25.2-114		%REC	1	8/9/2011 8:09:41 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 4:10:44 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 4:10:44 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 4:10:44 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 4:10:44 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 4:10:44 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 4:10:44 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 4:10:44 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #4 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 11:35:00 AM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 4:10:44 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 4:10:44 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 4:10:44 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Surr: 1,2-Dichloroethane-d4	82.8	70-130		%REC	1	8/9/2011 4:10:44 AM
Surr: 4-Bromofluorobenzene	89.1	70-130		%REC	1	8/9/2011 4:10:44 AM
Surr: Dibromofluoromethane	83.5	63.1-128		%REC	1	8/9/2011 4:10:44 AM
Surr: Toluene-d8	91.8	70-130		%REC	1	8/9/2011 4:10:44 AM
SM4500-H+B: PH						Analyst: **KS**
pH	8.39	0.100		pH Units	1	8/4/2011 1:52:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Methanol Blank
Lab Order:	1108122	**Collection Date:**	
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-06	**Matrix:**	MEOH

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 3:06:52 PM
Surr: BFB	96.1	75.2-136		%REC	1	8/3/2011 3:06:52 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 4:38:51 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 4:38:51 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 4:38:51 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 4:38:51 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 4:38:51 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 4:38:51 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 4:38:51 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Methanol Blank
Lab Order:	1108122	**Collection Date:**	
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-06	**Matrix:**	MEOH

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 4:38:51 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 4:38:51 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 4:38:51 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Surr: 1,2-Dichloroethane-d4	86.5	70-130		%REC	1	8/9/2011 4:38:51 AM
Surr: 4-Bromofluorobenzene	90.0	70-130		%REC	1	8/9/2011 4:38:51 AM
Surr: Dibromofluoromethane	84.5	63.1-128		%REC	1	8/9/2011 4:38:51 AM
Surr: Toluene-d8	93.3	70-130		%REC	1	8/9/2011 4:38:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	110804062
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1108122
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	110804062-001	**Sampling Date**	7/28/2011	**Date/Time Received**	8/4/2011 1:40 PM
Client Sample ID	1108122-02C / CELL #1 VADOSE ZONE			**Sampling Time**	1:08 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Conductivity	98.3	mS/M		8/16/2011	CRW	ASTM G57A	
Cyanide	ND	mg/Kg	0.3	8/11/2011	CRW	EPA 335.4	
%moisture	16.8	Percent		8/11/2011	CRW	%moisture	

Sample Number	110804062-002	**Sampling Date**	7/28/2011	**Date/Time Received**	8/4/2011 1:40 PM
Client Sample ID	1108122-03C / CELL #2 VADOSE ZONE			**Sampling Time**	12:38 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Conductivity	83.1	mS/M		8/16/2011	CRW	ASTM G57A	
Cyanide	ND	mg/Kg	0.3	8/11/2011	CRW	EPA 335.4	
%moisture	21.2	Percent		8/11/2011	CRW	%moisture	

Sample Number	110804062-003	**Sampling Date**	7/28/2011	**Date/Time Received**	8/4/2011 1:40 PM
Client Sample ID	1108122-04C / CELL #3 VADOSE ZONE			**Sampling Time**	12:12 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Conductivity	273	mS/M		8/16/2011	CRW	ASTM G57A	
Cyanide	ND	mg/Kg	0.3	8/11/2011	CRW	EPA 335.4	
%moisture	16.4	Percent		8/11/2011	CRW	%moisture	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	110804062
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1108122
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	110804062-004	**Sampling Date**	7/28/2011	**Date/Time Received**	8/4/2011 1:40 PM
Client Sample ID	1108122-05C / CELL #4 VADOSE ZONE			**Sampling Time**	11:35 AM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Conductivity	97.2	mS/M		8/16/2011	CRW	ASTM G57A	
Cyanide	ND	mg/Kg	0.3	8/11/2011	CRW	EPA 335.4	
%moisture	7.5	Percent		8/11/2011	CRW	%moisture	

Authorized Signature

John Coddington, Lab Manager

MCL	EPA's Maximum Contaminant Level
ND	Not Detected
PQL	Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: 1108122
Pace Project No.: 3051428

Sample: 1108122-02D Cell #1 Vadose Zon **Lab ID: 3051428001** Collected: 07/28/11 13:08 Received: 08/04/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**0.962 ± 0.192 (0.169)**	pCi/g	08/30/11 14:19	13982-63-3	
Radium-228	EPA 901.1m	**1.39 ± 0.326 (0.256)**	pCi/g	08/30/11 14:19	15262-20-1	

Sample: 1108122-03D Cell #2 Vadose Zon **Lab ID: 3051428002** Collected: 07/28/11 12:38 Received: 08/04/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**0.728 ± 0.139 (0.160)**	pCi/g	08/30/11 15:21	13982-63-3	
Radium-228	EPA 901.1m	**1.06 ± 0.243 (0.197)**	pCi/g	08/30/11 15:21	15262-20-1	

Sample: 1108122-04D Cell #3 Vadose Zon **Lab ID: 3051428003** Collected: 07/28/11 12:12 Received: 08/04/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.06 ± 0.200 (0.148)**	pCi/g	08/30/11 16:23	13982-63-3	
Radium-228	EPA 901.1m	**1.23 ± 0.255 (0.264)**	pCi/g	08/30/11 16:23	15262-20-1	

Sample: 1108122-05D Cell #4 Vadose Zon **Lab ID: 3051428004** Collected: 07/28/11 11:35 Received: 08/04/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:
Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.26 ± 0.225 (0.193)**	pCi/g	08/31/11 08:13	13982-63-3	
Radium-228	EPA 901.1m	**1.33 ± 0.275 (0.203)**	pCi/g	08/31/11 08:13	15262-20-1	

Date: 09/01/2011 02:21 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1108122
Pace Project No.: 3051428

QC Batch: RADC/9145 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 3051428001, 3051428002, 3051428003, 3051428004

METHOD BLANK: 328770 Matrix: Solid
Associated Lab Samples: 3051428001, 3051428002, 3051428003, 3051428004

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.113 ± 0.103 (0.164)	pCi/g	08/31/11 09:15	
Radium-228	0.0150 ± 0.0230 (0.265)	pCi/g	08/31/11 09:15	

Date: 09/01/2011 02:21 PM

REPORT OF LABORATORY ANALYSIS

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-27943		*MBLK*				Batch ID:	**27943**	Analysis Date:		8/8/2011 4:57:21 PM	
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-27943		*LCS*				Batch ID:	**27943**	Analysis Date:		8/8/2011 5:14:46 PM	
Fluoride	1.603	mg/Kg	0.30	1.5	0	107	90	110			
Chloride	14.69	mg/Kg	1.5	15	0	97.9	90	110			
Nitrogen, Nitrate (As N)	7.669	mg/Kg	0.30	7.5	0	102	90	110			
Sulfate	30.27	mg/Kg	1.5	30	0	101	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-27881		*MBLK*				Batch ID:	**27881**	Analysis Date:		8/4/2011 11:50:00 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-27881		*LCS*				Batch ID:	**27881**	Analysis Date:		8/5/2011 12:24:05 AM	
Diesel Range Organics (DRO)	43.72	mg/Kg	10	50	0	87.4	66.7	119			
Sample ID: LCSD-27881		*LCSD*				Batch ID:	**27881**	Analysis Date:		8/5/2011 12:58:09 AM	
Diesel Range Organics (DRO)	43.16	mg/Kg	10	50	0	86.3	66.7	119	1.28	18.9	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1108122-02A MSD		*MSD*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 9:50:40 PM	
Gasoline Range Organics (GRO)	29.88	mg/Kg	5.0	27.14	0	110	57.7	165	2.65	15.5	
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 8:51:02 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: MB-27886		*MBLK*				Batch ID:	**27886**	Analysis Date:		8/5/2011 10:09:14 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 10:46:44 AM	
Gasoline Range Organics (GRO)	28.32	mg/Kg	5.0	25	0	113	88.8	124			
Sample ID: LCS-27886		*LCS*				Batch ID:	**27886**	Analysis Date:		8/5/2011 12:03:29 PM	
Gasoline Range Organics (GRO)	30.64	mg/Kg	5.0	25	0	123	86.4	132			
Sample ID: 1108122-02A MS		*MS*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 9:21:54 PM	
Gasoline Range Organics (GRO)	30.69	mg/Kg	5.0	27.14	0	113	57.7	165			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML-RB		*MBLK*				Batch ID: **R46966**		Analysis Date:	8/3/2011 8:51:02 AM		
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: MB-27886		*MBLK*				Batch ID: **27886**		Analysis Date:	8/5/2011 10:09:14 AM		
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID: **R46966**		Analysis Date:	8/3/2011 11:15:37 AM		
Benzene	0.9808	mg/Kg	0.050	1	0	98.1	83.3	107			
Toluene	1.009	mg/Kg	0.050	1	0	101	74.3	115			
Ethylbenzene	0.9976	mg/Kg	0.050	1	0	99.8	80.9	122			
Xylenes, Total	3.048	mg/Kg	0.10	3	0	102	85.2	123			
Sample ID: LCS-27886		*LCS*				Batch ID: **27886**		Analysis Date:	8/5/2011 12:32:12 PM		
Methyl tert-butyl ether (MTBE)	0.7885	mg/Kg	0.10	1	0	78.8	65.5	229			
Benzene	0.9503	mg/Kg	0.050	1	0	95.0	83.3	107			
Toluene	0.9900	mg/Kg	0.050	1	0	99.0	74.3	115			
Ethylbenzene	1.011	mg/Kg	0.050	1	0	101	80.9	122			
Xylenes, Total	3.050	mg/Kg	0.10	3	0	102	85.2	123			
Method: EPA Method 8082: PCB's											
Sample ID: 1108122-02AMSD		*MSD*				Batch ID: **27919**		Analysis Date:	8/9/2011 4:08:42 PM		
Aroclor 1260	0.08788	mg/Kg	0.020	0.125	0	70.5	45	117	6.87	20	
Sample ID: MB-27919		*MBLK*				Batch ID: **27919**		Analysis Date:	8/9/2011 1:06:26 PM		
Aroclor 1016	ND	mg/Kg	0.020								
Aroclor 1221	ND	mg/Kg	0.020								
Aroclor 1232	ND	mg/Kg	0.020								
Aroclor 1242	ND	mg/Kg	0.020								
Aroclor 1248	ND	mg/Kg	0.020								
Aroclor 1254	ND	mg/Kg	0.020								
Aroclor 1260	ND	mg/Kg	0.020								
Sample ID: LCS-27919		*LCS*				Batch ID: **27919**		Analysis Date:	8/9/2011 1:52:32 PM		
Aroclor 1260	0.09690	mg/Kg	0.020	0.125	0	77.5	21.4	118			
Sample ID: 1108122-02AMS		*MS*				Batch ID: **27919**		Analysis Date:	8/9/2011 3:23:02 PM		
Aroclor 1260	0.09414	mg/Kg	0.020	0.124	0	75.8	45	117			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: mb-27886		*MBLK*				Batch ID: **27886**		Analysis Date:	**8/8/2011 6:17:38 PM**		
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050								
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050								
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050								
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050								
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050								
Naphthalene	ND	mg/Kg	0.10								
1-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
Acetone	ND	mg/Kg	0.75								
Bromobenzene	ND	mg/Kg	0.050								
Bromodichloromethane	ND	mg/Kg	0.050								
Bromoform	ND	mg/Kg	0.050								
Bromomethane	ND	mg/Kg	0.15								
2-Butanone	ND	mg/Kg	0.50								
Carbon disulfide	ND	mg/Kg	0.50								
Carbon tetrachloride	ND	mg/Kg	0.10								
Chlorobenzene	ND	mg/Kg	0.050								
Chloroethane	ND	mg/Kg	0.10								
Chloroform	ND	mg/Kg	0.050								
Chloromethane	ND	mg/Kg	0.25								
2-Chlorotoluene	ND	mg/Kg	0.050								
4-Chlorotoluene	ND	mg/Kg	0.050								
cis-1,2-DCE	ND	mg/Kg	0.050								
cis-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10								
Dibromochloromethane	ND	mg/Kg	0.050								
Dibromomethane	ND	mg/Kg	0.10								
1,2-Dichlorobenzene	ND	mg/Kg	0.050								
1,3-Dichlorobenzene	ND	mg/Kg	0.050								
1,4-Dichlorobenzene	ND	mg/Kg	0.050								
Dichlorodifluoromethane	ND	mg/Kg	0.050								
1,1-Dichloroethane	ND	mg/Kg	0.10								
1,1-Dichloroethene	ND	mg/Kg	0.050								
1,2-Dichloropropane	ND	mg/Kg	0.050								
1,3-Dichloropropane	ND	mg/Kg	0.050								
2,2-Dichloropropane	ND	mg/Kg	0.10								
1,1-Dichloropropene	ND	mg/Kg	0.10								
Hexachlorobutadiene	ND	mg/Kg	0.10								
2-Hexanone	ND	mg/Kg	0.50								
Isopropylbenzene	ND	mg/Kg	0.050								
4-Isopropyltoluene	ND	mg/Kg	0.050								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: mb-27886		*MBLK*				Batch ID:	**27886**	Analysis Date:		8/8/2011 6:17:38 PM	
4-Methyl-2-pentanone	ND	mg/Kg	0.50								
Methylene chloride	ND	mg/Kg	0.15								
n-Butylbenzene	ND	mg/Kg	0.050								
n-Propylbenzene	ND	mg/Kg	0.050								
sec-Butylbenzene	ND	mg/Kg	0.050								
Styrene	ND	mg/Kg	0.050								
tert-Butylbenzene	ND	mg/Kg	0.050								
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050								
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050								
Tetrachloroethene (PCE)	ND	mg/Kg	0.050								
trans-1,2-DCE	ND	mg/Kg	0.050								
trans-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10								
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050								
1,1,1-Trichloroethane	ND	mg/Kg	0.050								
1,1,2-Trichloroethane	ND	mg/Kg	0.050								
Trichloroethene (TCE)	ND	mg/Kg	0.050								
Trichlorofluoromethane	ND	mg/Kg	0.050								
1,2,3-Trichloropropane	ND	mg/Kg	0.10								
Vinyl chloride	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: lcs-27886		*LCS*				Batch ID:	**27886**	Analysis Date:		8/8/2011 6:46:06 PM	
Benzene	0.8777	mg/Kg	0.050	1	0	87.8	70.7	123			
Toluene	0.9248	mg/Kg	0.050	1	0	92.5	80	120			
Chlorobenzene	0.9290	mg/Kg	0.050	1	0	92.9	70	130			
1,1-Dichloroethene	0.8232	mg/Kg	0.050	1	0	82.3	63.1	148			
Trichloroethene (TCE)	0.8422	mg/Kg	0.050	1	0	84.2	63.2	114			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: 1108122-02Amsd		*MSD*				Batch ID: **27900**		Analysis Date:		8/9/2011 6:40:26 PM	
Acenaphthene	1.413	mg/Kg	0.20	1.671	0	84.6	34.9	118	1.83	30	
4-Chloro-3-methylphenol	2.434	mg/Kg	0.50	3.332	0	73.1	28.8	126	2.49	30	
2-Chlorophenol	2.309	mg/Kg	0.20	3.332	0	69.3	26.7	115	2.66	30	
4-Nitrophenol	3.278	mg/Kg	0.25	3.332	0	98.4	16	171	22.7	30	
Pentachlorophenol	2.468	mg/Kg	0.40	3.332	0.0668	72.0	26.8	134	3.04	30	
Phenol	2.233	mg/Kg	0.20	3.332	0	67.0	29.6	115	3.52	30	
Sample ID: mb-27900		*MBLK*				Batch ID: **27900**		Analysis Date:		8/9/2011 4:41:43 PM	
Acenaphthene	ND	mg/Kg	0.20								
Acenaphthylene	ND	mg/Kg	0.20								
Anthracene	ND	mg/Kg	0.20								
Benz(a)anthracene	ND	mg/Kg	0.20								
Benzo(a)pyrene	ND	mg/Kg	0.20								
Benzo(b)fluoranthene	ND	mg/Kg	0.20								
Benzo(g,h,i)perylene	ND	mg/Kg	0.20								
Benzo(k)fluoranthene	ND	mg/Kg	0.20								
4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
2-Chlorophenol	ND	mg/Kg	0.20								
Chrysene	ND	mg/Kg	0.20								
Dibenz(a,h)anthracene	ND	mg/Kg	0.20								
2,4-Dichlorophenol	ND	mg/Kg	0.40								
2,4-Dimethylphenol	ND	mg/Kg	0.30								
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50								
2,4-Dinitrophenol	ND	mg/Kg	0.40								
Fluoranthene	ND	mg/Kg	0.20								
Fluorene	ND	mg/Kg	0.20								
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylphenol	ND	mg/Kg	0.50								
3+4-Methylphenol	ND	mg/Kg	0.20								
Naphthalene	ND	mg/Kg	0.20								
2-Nitrophenol	ND	mg/Kg	0.20								
4-Nitrophenol	ND	mg/Kg	0.25								
Pentachlorophenol	ND	mg/Kg	0.40								
Phenanthrene	ND	mg/Kg	0.20								
Phenol	ND	mg/Kg	0.20								
2,4,5-Trichlorophenol	ND	mg/Kg	0.20								
2,4,6-Trichlorophenol	ND	mg/Kg	0.20								
Sample ID: lcs-27900		*LCS*				Batch ID: **27900**		Analysis Date:		8/9/2011 5:11:20 PM	
Acenaphthene	1.356	mg/Kg	0.20	1.67	0	81.2	31.3	107			
4-Chloro-3-methylphenol	2.326	mg/Kg	0.50	3.33	0	69.8	33.1	110			
2-Chlorophenol	2.441	mg/Kg	0.20	3.33	0	73.3	31.6	99.2			
4-Nitrophenol	2.841	mg/Kg	0.25	3.33	0	85.3	18.3	117			
Pentachlorophenol	1.873	mg/Kg	0.40	3.33	0	56.2	16.5	111			
Phenol	2.267	mg/Kg	0.20	3.33	0	68.1	31.6	98.9			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: 1108122-02Ams		*MS*				Batch ID: **27900**		Analysis Date:	8/9/2011 6:10:40 PM		
Acenaphthene	1.439	mg/Kg	0.20	1.666	0	86.4	34.9	118			
4-Chloro-3-methylphenol	2.374	mg/Kg	0.50	3.322	0	71.5	28.8	126			
2-Chlorophenol	2.371	mg/Kg	0.20	3.322	0	71.4	26.7	115			
4-Nitrophenol	4.118	mg/Kg	0.25	3.322	0	124	16	171			E
Pentachlorophenol	2.544	mg/Kg	0.40	3.322	0.0668	74.6	26.8	134			
Phenol	2.156	mg/Kg	0.20	3.322	0	64.9	29.6	115			
Method: EPA Method 7471: Mercury											
Sample ID: MB-27939		*MBLK*				Batch ID: **27939**		Analysis Date:	8/9/2011 11:08:40 AM		
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-27939		*LCS*				Batch ID: **27939**		Analysis Date:	8/9/2011 11:10:23 AM		
Mercury	0.1642	mg/Kg	0.033	0.167	0.0012	97.8	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID: MB-27895		*MBLK*				Batch ID:	**27895**	Analysis Date:		**8/5/2011 9:55:28 AM**	
Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Iron	ND	mg/Kg	1.0								
Lead	ND	mg/Kg	0.25								
Manganese	ND	mg/Kg	0.10								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Uranium	ND	mg/Kg	5.0								
Zinc	ND	mg/Kg	2.5								
Sample ID: MB-27929		*MBLK*				Batch ID:	**27929**	Analysis Date:		**8/8/2011 7:53:11 AM**	
Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Calcium	ND	mg/Kg	25								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Iron	ND	mg/Kg	1.0								
Lead	ND	mg/Kg	0.25								
Magnesium	ND	mg/Kg	25								
Manganese	ND	mg/Kg	0.10								
Potassium	ND	mg/Kg	50								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Sodium	ND	mg/Kg	25								
Uranium	ND	mg/Kg	5.0								
Zinc	ND	mg/Kg	2.5								
Sample ID: LCS-27895		*LCS*				Batch ID:	**27895**	Analysis Date:		**8/5/2011 9:58:08 AM**	
Arsenic	28.16	mg/Kg	2.5	25	0	113	80	120			
Barium	26.67	mg/Kg	0.10	25	0.0306	107	80	120			
Cadmium	26.59	mg/Kg	0.10	25	0	106	80	120			
Chromium	26.67	mg/Kg	0.30	25	0	107	80	120			
Copper	24.77	mg/Kg	0.30	25	0	99.1	80	120			
Iron	26.66	mg/Kg	1.0	25	0	107	80	120			
Lead	26.79	mg/Kg	0.25	25	0	107	80	120			
Manganese	26.43	mg/Kg	0.10	25	0.0254	106	80	120			
Selenium	28.74	mg/Kg	2.5	25	0	115	80	120			
Silver	5.190	mg/Kg	0.25	5	0	104	80	120			
Uranium	25.66	mg/Kg	5.0	25	0	103	80	120			
Zinc	30.31	mg/Kg	2.5	25	0.8961	118	80	120			
Sample ID: LCS-27929		*LCS*				Batch ID:	**27929**	Analysis Date:		**8/8/2011 7:55:49 AM**	
Arsenic	24.99	mg/Kg	2.5	25	0	99.9	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: **EPA Method 6010B: Soil Metals**											
Sample ID: **LCS-27929**		*LCS*				**Batch ID:**	**27929**	**Analysis Date:**		8/8/2011 7:55:49 AM	
Barium	25.06	mg/Kg	0.10	25	0	100	80	120			
Cadmium	25.31	mg/Kg	0.10	25	0	101	80	120			
Calcium	2545	mg/Kg	25	2500	0	102	80	120			
Chromium	25.70	mg/Kg	0.30	25	0	103	80	120			
Copper	26.55	mg/Kg	0.30	25	0	106	80	120			
Iron	25.65	mg/Kg	1.0	25	0	103	80	120			
Lead	24.90	mg/Kg	0.25	25	0	99.6	80	120			
Magnesium	2570	mg/Kg	25	2500	0	103	80	120			
Manganese	24.42	mg/Kg	0.10	25	0	97.7	80	120			
Potassium	2485	mg/Kg	50	2500	0	99.4	80	120			
Selenium	24.83	mg/Kg	2.5	25	0	99.3	80	120			
Silver	5.113	mg/Kg	0.25	5	0	102	80	120			
Sodium	2543	mg/Kg	25	2500	0	102	80	120			
Uranium	26.10	mg/Kg	5.0	25	0	104	80	120			
Zinc	25.49	mg/Kg	2.5	25	0	102	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL Date Received: 8/1/2011

Work Order Number 1108122 Received by: LNM

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ 08/01/11
Signature Date

Matrix: Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	**2.9°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

Mailing Address: 624 E Comanche Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: BMG Landfarm & Pond

Project #: AES 040605

Project Manager: D. Watson

Sampler: N. Willis

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1108122	BTEX + ~~MTBE~~ + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) C6-C36	~~TPH (Method 418.1)~~ Cyanide	EDB (Method 504.1)	8310 (PNA or PAH) Benzo-a-pyrene 6020/6010/7471 Phenols	~~RCRA~~ Metals see below	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOCs including naphthalene	8270 (Semi-VOA)	300.0 Chlorides	Rad Radium-226 Radium-228	PCBs	pH, Spec Cond (Cations/Anions see below)	Air Bubbles (Y or N)
7-28-11	1401	soil	Treatment Zone Composite	1-MeOH kit 3-4oz glass	MeOH	-1	X		X									X				
7-28-11	1308		Cell #1 Vadose Zone			-2			X	X		X	X			X		X	X	X	X	
7-28-11	1238		Cell #2 Vadose Zone			-3			X	X		X	X			X		X	X	X	X	
7-28-11	1212		Cell #3 Vadose Zone			-4			X	X		X	X			X		X	X	X	X	
7-28-11	1135		Cell #4 Vadose Zone			-5			X	X		X	X			X		X	X	X	X	
			MeOH Trip Blank	1-MeOH kit	MeOH	-6										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
8-1-11	0815	Nathan Willis	Deborah Watson	8-1-11	0815
8-1-11	1411	Deborah Watson	Christine Walters	8/1/11	1411
8/1/11	1710	Christine Walters	[illegible]	8/2/11	800

Remarks:
Metals (6020/6010/7471): As, Ba, Cd, Cr, Pb, total Hg, Se, Ag, U, Cu, Fe, Mn, Zn, Mg, Na, K
cations/anions: F, NO_3 as N, SO_4, Ca
PAHs: benzo-a pyrene, phenols

Please call w/ Questions.

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

AES Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

June 3, 2011

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the April 2011 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On April 28, 2011, Animas Environmental Services, LLC (AES) completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner in late September 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on April 28, 2011. Groundwater samples were collected from

monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0; and
- Total Dissolved Solids (TDS) – SM 2540C.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 12.37 °C (MW-4) to 14.60 °C (MW-3). Conductivity readings were between 0.874 mS (MW-3) to 176.6 mS (IW). DO readings ranged from 4.07 mg/L (MW-1) to4.63 mg/L (MW-4). Groundwater pH and ORP were recorded in the field, but as a result of a malfunctioning sensor, the data reported was inaccurate. A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the April 2011 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, below the New Mexico Water Quality Control Commission (WQCC) standards. All monitor wells also had TPH concentrations below laboratory detection limits, with the exception of the interstitial well, which had a reported concentration of 0.51 mg/L GRO and 7.7 mg/L DRO.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled but have remained relatively stable. The results above laboratory detection limits have been summarized as follows:

- TPH-GRO: IW (0.51 mg/L);
- TPH-DRO: IW (7.7 mg/L);
- Chloride: IW (130,000 mg/L), MW-1 (13 mg/L), MW-2 (40 mg/L), MW-3 (31 mg/L), and MW-4 (19 mg/L);
- TDS: IW (177,000 mg/L), MW-1 (705 mg/L), MW-2 (790 mg/L), MW-3 (660 mg/L), and MW-4 (684 mg/L).

The analytical results for the groundwater samples collected during the January 2011 sampling event are presented in Tables 2 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from 2 feet below ground surface in each of Cell #1, Cell #2, and Cell #3. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6 °C until delivered to Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH (GRO, MRO, and DRO) per EPA Method 8015B; and
- Chlorides per EPA Method 300.0.

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES observations of the treatment cells at the time of sample collection, Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Treatment Cell #4 is not in use, and therefore was not sampled. Results are summarized as follows:

- BTEX concentrations were below laboratory detection limits in each cell;
- TPH concentrations were reported below the laboratory detection limits in Cell #1 and Cell #2. Cell # 3 had reported total TPH concentrations at 8,700 mg/kg (DRO and MRO);
- Chloride concentrations were reported below the laboratory detection limit of 7.5 mg/kg in Cell #2. Cell #1 had a chloride concentration of 45 mg/kg, and Cell #3 had a chloride concentration of 7.9 mg/kg. All three samples are below the applicable NMOCD standard of 500 mg/kg.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented on Figure 2. Laboratory analytical results are summarized in Table 3 and Table 4, and laboratory reports are presented in Appendix A.

3.0 Conclusions and Recommendations

Based on the results of the April 2011 sampling event at the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH.

Groundwater samples from the interstitial well had concentrations below laboratory detection limits for BTEX. The interstitial well had reported concentrations above laboratory detection limits for TPH-GRO (0.51 mg/L), TPH-DRO (7.7 mg/L), chloride (130,000 mg/L), and TDS (177,000 mg/L).

Landfarm Cells #1 through #3 were also sampled in April 2011. Soil analytical results from the treatment zones were below laboratory detection limits for BTEX. TPH concentrations ranged from below laboratory detection limits (Cells #1 and #2) to 8,700 mg/kg (Cell #3). Soil chloride concentrations were reported below the laboratory detection limit of 7.5 mg/kg in Cell #2 and were reported at 45 mg/kg (Cell #1) and 7.9 mg/kg (Cell #3).

AES has scheduled the next quarterly treatment zone monitoring and sampling of evaporation pond monitor wells to occur in July 2011.

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

Sincerely,

EM for Deborah Watson

Deborah Watson
Project Manager

Elizabeth McNally

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Soil BTEX and TPH Concentrations
Table 4. Soil Chloride Concentrations

Figures

Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
Figure 2. Treatment Zone Monitoring Locations

Appendices

Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

cc: Mike Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington NM 87402

Brandon Powell
NM Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (˚C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
Interstitial Well	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
Interstitial Well	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
Interstitial Well	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
Interstitial Well	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-1	12-Oct-10	TBS	39.32	12.16	0.892	3.66	7.33	142.8
MW-1	19-Jan-11	TBS	39.42	11.22	0.924	3.51	7.81	110.4
MW-1	28-Apr-11	TBS	39.51	12.80	0.901	4.07	NM	NM
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (˚C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0
MW-2	12-Oct-10	TBS	40.38	12.81	0.928	4.13	7.87	68.7
MW-2	19-Jan-11	TBS	40.49	10.51	0.888	3.22	7.96	122.7
MW-2	28-Apr-11	TBS	40.57	12.49	0.902	NM	NM	NM
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-3	12-Oct-10	TBS	39.61	12.85	0.834	3.86	7.59	130.8
MW-3	19-Jan-11	TBS	39.71	10.94	0.870	5.11	7.78	132.8
MW-3	28-Apr-11	TBS	39.8	14.60	0.874	NM	NM	NM
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1
MW-4	12-Oct-10	TBS	40.12	12.84	0.963	5.04	7.28	162.5
MW-4	19-Jan-11	TBS	40.23	11.66	0.997	6.95	7.65	53.4
MW-4	28-Apr-11	TBS	40.30	12.37	0.966	4.63	NM	NM

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
Interstitial Well	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
Interstitial Well	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
Interstitial Well	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710

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Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615
MW-1	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	643
MW-1	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	13	665
MW-1	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	13	705
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-2	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	615
MW-2	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	750
MW-2	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	40	790
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560

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Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-3	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	567
MW-3	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	27	630
MW-3	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	31	660
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700
MW-4	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	865
MW-4	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	690
MW-4	28-Apr-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	684

NOTE: NE = Not Established

TABLE 2
Summary of Groundwater Analytical Results
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Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.

*** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.353' W 106° 51.999'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50
Cell #1	#1	N 36° 23.372' W 106° 52.051'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	22	50
Cell #1	#1	N 36° 23.336' W 106° 51.954'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50

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Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.403' W 106° 51.943'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63
Cell #2	#2	N 36° 23.405' W 106° 52.011'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.384' W 106° 51.933'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50

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BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.353' W 106° 51.855'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.352' W 106° 51.911'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.866'	28-Apr-11	2	<0.25	<0.25	<0.25	<0.50	<25	3,400	5,300
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

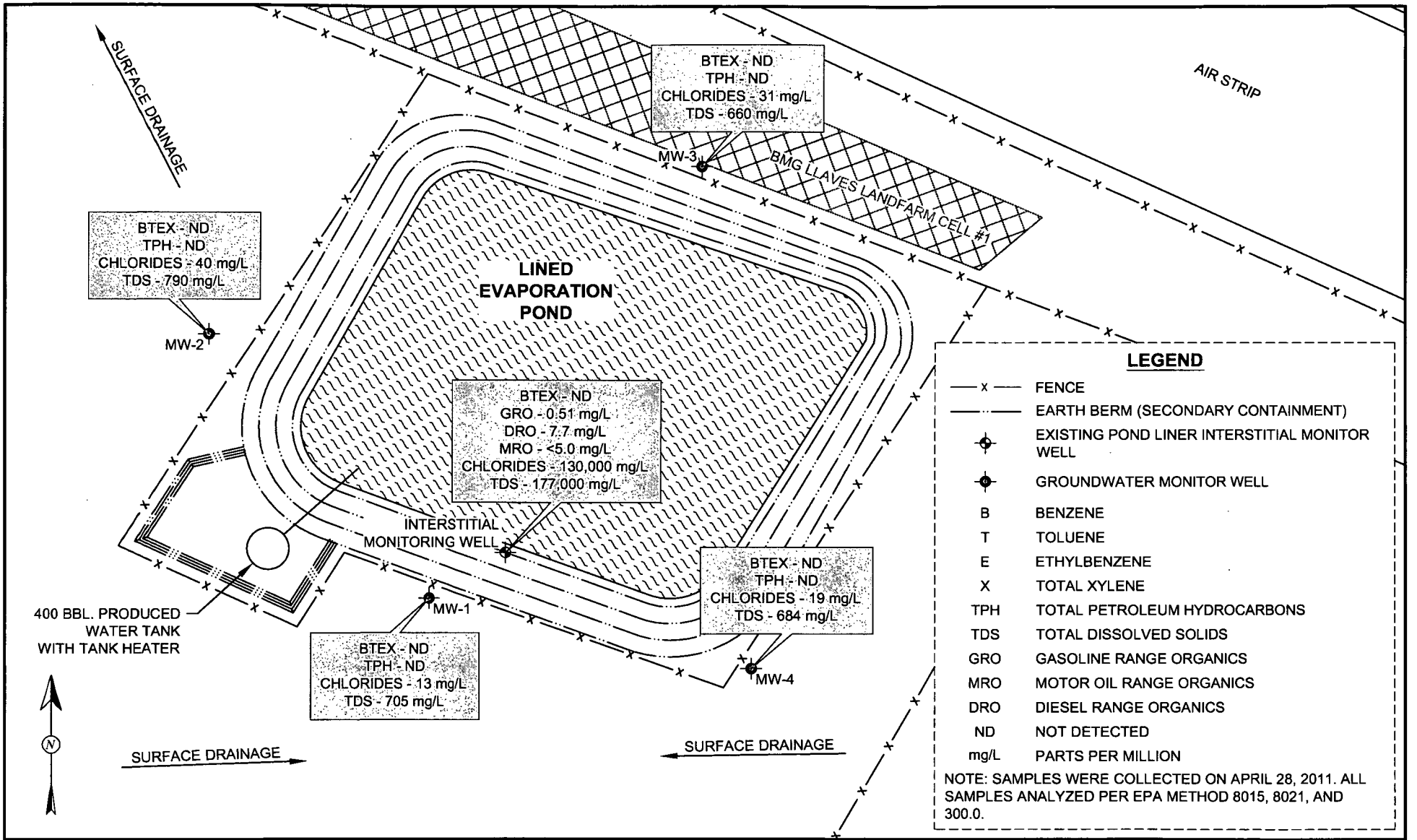
TABLE 4
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
		NMOCD Soil Standard		**500**
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #1	#1	11-Jan-10	2	22
Cell #1	#1	16-Apr-10	2	18
Cell #1	#1	8-Jul-10	2	<15
Cell #1	#1	12-Oct-10	2	<30
Cell #1	#1	19-Jan-11	2	54
Cell #1	#1	28-Apr-11	2	45
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #2	#2	11-Jan-10	2	16
Cell #2	#2	16-Apr-10	2	6.0
Cell #2	#2	8-Jul-10	2	<15
Cell #2	#2	12-Oct-10	2	<30
Cell #2	#2	19-Jan-11	2	<15
Cell #2	#2	28-Apr-11	2	<7.5
Cell #3	#3	7-Jun-06	2.5	26.3*

TABLE 4
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
		NMOCD Soil Standard		**500**
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28
Cell #3	#3	11-Jan-10	2	17
Cell #3	#3	16-Apr-10	2	20
Cell #3	#3	8-Jul-10	2	<15
Cell #3	#3	12-Oct-10	2	43
Cell #3	#3	19-Jan-11	2	<15
Cell #3	#3	28-Apr-11	2	7.9

Note: * = Concentrations reported are in mg/L
NA = Not Analyzed



SCALE
50 30 0 50
10
(1 INCH = 50 FEET)

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** May 27, 2011
CHECKED BY: D. Watson	**DATE CHECKED:** May 31, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** June 3, 2011

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, APRIL 2011

NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

FIGURE 2

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY MONITORING LOCATIONS APRIL 2011

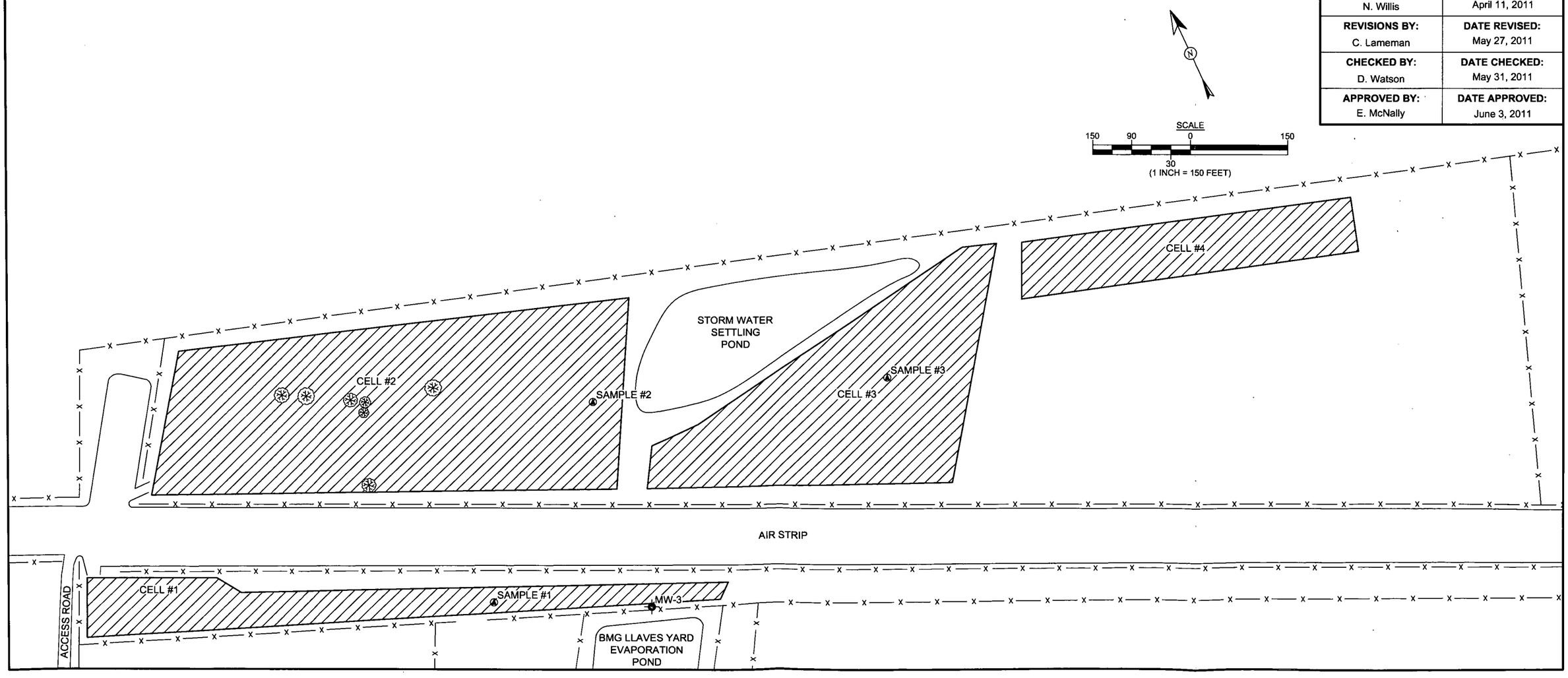
NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
N. Willis	April 11, 2011
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 27, 2011
CHECKED BY:	**DATE CHECKED:**
D. Watson	May 31, 2011
APPROVED BY:	**DATE APPROVED:**
E. McNally	June 3, 2011

SUMMARY OF QUARTERLY TREATMENT ZONE MONITORING APRIL 2011

LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	#1	N 36°23.336' W 106°51.954'	04/28/11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	45
CELL #2	#2	N 36°23.384' W 106°51.933'	04/28/11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
CELL #3	#3	N 36°23.351' W 106°51.866'	04/28/11	2	<0.25	<0.25	<0.25	<0.50	<25	3,400	5,300	7.9
CELL #4		NOT IN USE, NO SAMPLE										



DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. Wills

Project No.: AES 040605
Date: 4-29-11
Time: 0931
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1022		39.51		
MW-2	1124		40.57		
MW-3	1206		39.80		
MW-4	0936		40.30		
Interstitial	1058		9.79		

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: [redacted] MW-1

Animas Environmental Services

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): [redacted] **Time:** [redacted] *(taken prior to purging well)*
Final D.T.W. (ft): 39.51 **Time:** 1022 *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 4-28-11
Arrival Time: [redacted] 1018
Air Temp: [redacted] 50°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1027	13.00	0.895	4.10	10.61	-193.3	0.25	
1030	12.72	0.898	4.02	10.67	-197.1	0.5	
1033	12.80	0.901	4.07	10.72	-199.1	0.25	VERY LOW YIELD ↓
1038	~	~	~	~	~	~	SAMPLES COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.57 **Time:** 1124 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 4-28-11
Arrival Time: 1120
Air Temp: 60°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1128	13.30	1.733	8.03	13.01	-245.5	0.25	
1131	12.62	0.953	7.11	13.04	-251.4	0.5	
1133	12.49	0.902	9.58	12.94	-241.7	0.25	VERY LOW YIELD ↓
						.	
						.	
						.	
1138	—	—	—	—	—	—	SAMPLES COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.80 **Time:** 1206 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 4-28-11
Arrival Time: 1200
Air Temp: 66°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1209	16.98	0.858	8.35	12.84	-266	0.25	
1212	13.88	0.862	9.18	12.79	-267.9	0.5	
1215	14.60	0.874	9.07	12.60	-259.1	0.5	VERY LOW YIELD ↓
1220	—	—	—	—	—	—	SAMPLES COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____
Confirm D.T.W. (ft): 40.30 **Time:** 0936
Final D.T.W. (ft): _____ **Time:** _____
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 040605
Date: 4-28-11
Arrival Time: 0931
Air Temp: 49°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) ~~(mS)~~	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0942	12.63	0.963	4.98	9.97	-84.0	0.25	
0945	12.49	0.970	5.05	10.54	-137.1	0.5	
0950	12.32	0.971	5.04	10.59	-155.1	0.5	
0953	12.36	0.976	4.79	10.51	-161.2	0.5	
0957	12.38	0.974	4.76	10.15	-162.1	0.5	
1001	12.37	0.966	4.63	10.13	-175.1	0.5	
1006							SAMPLES COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: Interstitial Well	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond — **Project No.:** AES 040605
Location: Llaves, Rio Arriba County, New Mexico — **Date:** 4-28-11
Project: Groundwater Monitoring and Sampling — **Arrival Time:** 1045
Sampling Technician: N. Willis — **Air Temp:** 55°F
Purge / No Purge: Purge — **T.O.C. Elev. (ft):** TBS
Well Diameter (in): 2 — **Total Well Depth (ft):** 12.1
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): ~~[illegible]~~ **Time:** ~~0936~~ *(taken prior to purging well)*
Final D.T.W. (ft): 9.79 **Time:** 1058 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1100	12.54	176.6	4.33	13.64	-335.4	0.25	
1105	—	—	—	—	—	—	SAMPLES COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

Revised: 08/10/09

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, May 11, 2011

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm & Evaporation Pond

Order No.: 1105100

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 5/3/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	1105100	**Collection Date:**	4/28/2011 10:06:00 AM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-01	**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	5/6/2011 4:48:28 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/6/2011 4:48:28 PM
Surr: DNOP	129	97.7-132		%REC	1	5/6/2011 4:48:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/4/2011 12:33:27 AM
Surr: BFB	83.3	79.4-132		%REC	1	5/4/2011 12:33:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/4/2011 12:33:27 AM
Toluene	ND	1.0		µg/L	1	5/4/2011 12:33:27 AM
Ethylbenzene	ND	1.0		µg/L	1	5/4/2011 12:33:27 AM
Xylenes, Total	ND	2.0		µg/L	1	5/4/2011 12:33:27 AM
Surr: 4-Bromofluorobenzene	91.9	86.8-145	S	%REC	1	5/4/2011 12:33:27 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	19	5.0		mg/L	10	5/7/2011 6:41:43 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	684	40.0		mg/L	1	5/7/2011 12:57:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	1105100	**Collection Date:**	4/28/2011 10:38:00 AM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-02	**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	5/7/2011 3:50:16 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/7/2011 3:50:16 PM
Surr: DNOP	122	97.7-132		%REC	1	5/7/2011 3:50:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	5/4/2011 1:03:21 AM
Surr: BFB	82.3	79.4-132		%REC	2	5/4/2011 1:03:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	5/4/2011 1:03:21 AM
Toluene	ND	2.0		µg/L	2	5/4/2011 1:03:21 AM
Ethylbenzene	ND	2.0		µg/L	2	5/4/2011 1:03:21 AM
Xylenes, Total	ND	4.0		µg/L	2	5/4/2011 1:03:21 AM
Surr: 4-Bromofluorobenzene	91.1	96.8-145	S	%REC	2	5/4/2011 1:03:21 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	13	5.0		mg/L	10	5/7/2011 6:59:07 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	705	100		mg/L	1	5/7/2011 12:57:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	1105100	**Collection Date:**	4/28/2011 11:05:00 AM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	7.7	1.0		mg/L	1	5/6/2011 5:57:14 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/6/2011 5:57:14 PM
Surr: DNOP	104	97.7-132		%REC	1	5/6/2011 5:57:14 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.51	0.25		mg/L	5	5/3/2011 4:03:09 PM
Surr: BFB	85.8	79.4-132		%REC	5	5/3/2011 4:03:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	5.0		µg/L	5	5/3/2011 4:03:09 PM
Toluene	ND	5.0		µg/L	5	5/3/2011 4:03:09 PM
Ethylbenzene	ND	5.0		µg/L	5	5/3/2011 4:03:09 PM
Xylenes, Total	ND	10		µg/L	5	5/3/2011 4:03:09 PM
Surr: 4-Bromofluorobenzene	102	96.8-145		%REC	5	5/3/2011 4:03:09 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	130000	5000		mg/L	10000	5/9/2011 4:43:01 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	177000	1000		mg/L	1	5/7/2011 12:57:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	1105100	**Collection Date:**	4/28/2011 11:38:00 AM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-04	**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	5/7/2011 4:24:39 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/7/2011 4:24:39 PM
Surr: DNOP	113	97.7-132		%REC	1	5/7/2011 4:24:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	5/4/2011 1:33:19 AM
Surr: BFB	96.3	79.4-132		%REC	2	5/4/2011 1:33:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	5/4/2011 1:33:19 AM
Toluene	ND	2.0		µg/L	2	5/4/2011 1:33:19 AM
Ethylbenzene	ND	2.0		µg/L	2	5/4/2011 1:33:19 AM
Xylenes, Total	ND	4.0		µg/L	2	5/4/2011 1:33:19 AM
Surr: 4-Bromofluorobenzene	111	96.8-145		%REC	2	5/4/2011 1:33:19 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	40	5.0		mg/L	10	5/7/2011 7:33:56 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	790	200		mg/L	1	5/7/2011 12:57:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	1105100	**Collection Date:**	4/28/2011 12:20:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-05	**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	5/6/2011 7:06:01 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/6/2011 7:06:01 PM
Surr: DNOP	126	97.7-132		%REC	1	5/6/2011 7:06:01 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	5/4/2011 2:03:18 AM
Surr: BFB	94.0	79.4-132		%REC	2	5/4/2011 2:03:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	5/4/2011 2:03:18 AM
Toluene	ND	2.0		µg/L	2	5/4/2011 2:03:18 AM
Ethylbenzene	ND	2.0		µg/L	2	5/4/2011 2:03:18 AM
Xylenes, Total	ND	4.0		µg/L	2	5/4/2011 2:03:18 AM
Surr: 4-Bromofluorobenzene	107	96.8-145		%REC	2	5/4/2011 2:03:18 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	31	5.0		mg/L	10	5/7/2011 7:51:21 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	660	100		mg/L	1	5/7/2011 12:57:00 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

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Trip Blank
Lab Order:	1105100	**Collection Date:**	
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-06	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						**Analyst: NSB**
Benzene	ND	1.0		µg/L	1	5/4/2011 2:33:09 AM
Toluene	ND	1.0		µg/L	1	5/4/2011 2:33:09 AM
Ethylbenzene	ND	1.0		µg/L	1	5/4/2011 2:33:09 AM
Xylenes, Total	ND	2.0		µg/L	1	5/4/2011 2:33:09 AM
Surr: 4-Bromofluorobenzene	108	96.8-145		%REC	1	5/4/2011 2:33:09 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1
Lab Order:	1105100	**Collection Date:**	4/28/2011 12:48:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/7/2011 1:55:11 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/7/2011 1:55:11 AM
Surr: DNOP	111	81.8-129		%REC	1	5/7/2011 1:55:11 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/6/2011 12:27:20 AM
Surr: BFB	101	89.7-125		%REC	1	5/6/2011 12:27:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	5/6/2011 12:27:20 AM
Toluene	ND	0.050		mg/Kg	1	5/6/2011 12:27:20 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/6/2011 12:27:20 AM
Xylenes, Total	ND	0.10		mg/Kg	1	5/6/2011 12:27:20 AM
Surr: 4-Bromofluorobenzene	101	85.3-139		%REC	1	5/6/2011 12:27:20 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	45	7.5		mg/Kg	5	5/5/2011 7:23:17 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2
Lab Order:	1105100	**Collection Date:**	4/28/2011 1:14:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/7/2011 2:29:19 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/7/2011 2:29:19 AM
Surr: DNOP	114	81.8-129		%REC	1	5/7/2011 2:29:19 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/6/2011 12:56:10 AM
Surr: BFB	102	89.7-125		%REC	1	5/6/2011 12:56:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	5/6/2011 12:56:10 AM
Toluene	ND	0.050		mg/Kg	1	5/6/2011 12:56:10 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/6/2011 12:56:10 AM
Xylenes, Total	ND	0.10		mg/Kg	1	5/6/2011 12:56:10 AM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	5/6/2011 12:56:10 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	7.5		mg/Kg	5	5/5/2011 7:58:06 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
MCL	Maximum Contaminant Level
NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit
S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3
Lab Order:	1105100	**Collection Date:**	4/28/2011 1:34:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	3400	1000		mg/Kg	100	5/8/2011 7:13:09 AM
Motor Oil Range Organics (MRO)	5300	5000		mg/Kg	100	5/8/2011 7:13:09 AM
Surr: DNOP	0	81.8-129	S	%REC	100	5/8/2011 7:13:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	5/6/2011 11:51:17 AM
Surr: BFB	101	89.7-125		%REC	5	5/6/2011 11:51:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.25		mg/Kg	5	5/6/2011 11:51:17 AM
Toluene	ND	0.25		mg/Kg	5	5/6/2011 11:51:17 AM
Ethylbenzene	ND	0.25		mg/Kg	5	5/6/2011 11:51:17 AM
Xylenes, Total	ND	0.50		mg/Kg	5	5/6/2011 11:51:17 AM
Surr: 4-Bromofluorobenzene	102	85.3-139		%REC	5	5/6/2011 11:51:17 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	7.9	7.5		mg/Kg	5	5/5/2011 8:32:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-May-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Methanol Blank
Lab Order:	1105100	**Collection Date:**	
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	5/3/2011
Lab ID:	1105100-10	**Matrix:**	MEOH

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/6/2011 1:54:02 AM
Surr: BFB	102	89.7-125		%REC	1	5/6/2011 1:54:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	5/6/2011 1:54:02 AM
Toluene	ND	0.050		mg/Kg	1	5/6/2011 1:54:02 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/6/2011 1:54:02 AM
Xylenes, Total	ND	0.10		mg/Kg	1	5/6/2011 1:54:02 AM
Surr: 4-Bromofluorobenzene	102	85.3-139		%REC	1	5/6/2011 1:54:02 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1105100

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-26674		*MBLK*				Batch ID: **26674**		Analysis Date:	5/5/2011 3:54:17 AM		
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-26674		*LCS*				Batch ID: **26674**		Analysis Date:	5/5/2011 4:11:42 AM		
Chloride	14.83	mg/Kg	1.5	15	0	98.9	90	110			
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID: **R45191**		Analysis Date:	5/6/2011 1:16:52 PM		
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R45228**		Analysis Date:	5/9/2011 9:45:05 AM		
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID: **R45191**		Analysis Date:	5/6/2011 1:34:18 PM		
Chloride	5.043	mg/L	0.50	5	0	101	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R45228**		Analysis Date:	5/9/2011 10:02:30 AM		
Chloride	5.049	mg/L	0.50	5	0	101	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-26683		*MBLK*				Batch ID: **26683**		Analysis Date:	5/6/2011 11:38:42 PM		
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-26683		*LCS*				Batch ID: **26683**		Analysis Date:	5/7/2011 12:12:50 AM		
Diesel Range Organics (DRO)	44.09	mg/Kg	10	50	0	88.2	66.2	120			
Sample ID: LCSD-26683		*LCSD*				Batch ID: **26683**		Analysis Date:	5/7/2011 12:46:55 AM		
Diesel Range Organics (DRO)	49.74	mg/Kg	10	50	0	99.5	66.2	120	12.0	14.3	
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-26682		*MBLK*				Batch ID: **26682**		Analysis Date:	5/7/2011 3:15:53 PM		
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-26682		*LCS*				Batch ID: **26682**		Analysis Date:	5/6/2011 3:39:44 PM		
Diesel Range Organics (DRO)	5.236	mg/L	1.0	5	0	105	74	157			
Sample ID: LCSD-26682		*LCSD*				Batch ID: **26682**		Analysis Date:	5/6/2011 4:14:06 PM		
Diesel Range Organics (DRO)	5.032	mg/L	1.0	5	0	101	74	157	3.98	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-26677		*MBLK*				Batch ID: **26677**		Analysis Date:	5/5/2011 8:07:24 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: MB-26697		*MBLK*				Batch ID: **26697**		Analysis Date:	5/6/2011 8:02:35 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-26677		*LCS*				Batch ID: **26677**		Analysis Date:	5/5/2011 6:11:51 PM		
Gasoline Range Organics (GRO)	30.47	mg/Kg	5.0	25	0	122	88.8	124			
Sample ID: LCS-26697		*LCS*				Batch ID: **26697**		Analysis Date:	5/6/2011 6:07:02 PM		
Gasoline Range Organics (GRO)	29.12	mg/Kg	5.0	25	0	116	88.8	124			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1105100

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1105100-01A MSD		*MSD*				Batch ID:	**R45109**	Analysis Date:		5/3/2011 6:33:00 PM	
Gasoline Range Organics (GRO)	0.4936	mg/L	0.050	0.5	0	98.7	75.4	121	1.01	10.5	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R45109**	Analysis Date:		5/3/2011 8:22:19 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R45109**	Analysis Date:		5/3/2011 7:03:07 PM	
Gasoline Range Organics (GRO)	0.5310	mg/L	0.050	0.5	0	106	81.8	120			
Sample ID: 1105100-01A MS		*MS*				Batch ID:	**R45109**	Analysis Date:		5/3/2011 6:03:05 PM	
Gasoline Range Organics (GRO)	0.4986	mg/L	0.050	0.5	0	99.7	75.4	121			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-26677		*MBLK*				Batch ID:	**26677**	Analysis Date:		5/5/2011 8:07:24 PM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: MB-26697		*MBLK*				Batch ID:	**26697**	Analysis Date:		5/6/2011 8:02:35 PM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-26677		*LCS*				Batch ID:	**26677**	Analysis Date:		5/5/2011 7:38:31 PM	
Benzene	0.9919	mg/Kg	0.050	1	0	99.2	83.3	107			
Toluene	1.025	mg/Kg	0.050	1	0.0128	101	74.3	115			
Ethylbenzene	1.017	mg/Kg	0.050	1	0.0134	100	80.9	122			
Xylenes, Total	3.105	mg/Kg	0.10	3	0.0245	103	85.2	123			
Sample ID: LCS-26697		*LCS*				Batch ID:	**26697**	Analysis Date:		5/6/2011 7:33:41 PM	
Benzene	1.011	mg/Kg	0.050	1	0.016	99.5	83.3	107			
Toluene	1.020	mg/Kg	0.050	1	0.0129	101	74.3	115			
Ethylbenzene	1.026	mg/Kg	0.050	1	0.0132	101	80.9	122			
Xylenes, Total	3.073	mg/Kg	0.10	3	0.0392	101	85.2	123			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1105100

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R45109**	Analysis Date:		5/3/2011 8:22:19 AM	
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:	**R45109**	Analysis Date:		5/3/2011 7:33:13 PM	
Benzene	23.31	µg/L	1.0	20	0	117	93.4	120			
Toluene	23.18	µg/L	1.0	20	0	116	96.2	122			
Ethylbenzene	21.80	µg/L	1.0	20	0	109	95	121			
Xylenes, Total	66.83	µg/L	2.0	60	0	111	97.6	122			
Sample ID: 100NG BTEX LCSD		*LCSD*				Batch ID:	**R45109**	Analysis Date:		5/3/2011 8:03:26 PM	
Benzene	22.64	µg/L	1.0	20	0	113	93.4	120	2.92	10.1	
Toluene	22.44	µg/L	1.0	20	0	112	96.2	122	3.24	14.3	
Ethylbenzene	21.51	µg/L	1.0	20	0	108	95	121	1.33	15.5	
Xylenes, Total	65.78	µg/L	2.0	60	0	110	97.6	122	1.59	10.4	
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-26681		*MBLK*				Batch ID:	**26681**	Analysis Date:		5/7/2011 12:57:00 PM	
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-26681		*LCS*				Batch ID:	**26681**	Analysis Date:		5/7/2011 12:57:00 PM	
Total Dissolved Solids	1029	mg/L	20.0	1000	15	101	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL Date Received: 5/3/2011

Work Order Number 1105100 Received by: AMG

Checklist completed by: _____ 05/03/11 Sample ID labels checked by: _____ Initials

Signature Date

Matrix: Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	<2 >12 unless noted below.
Container/Temp Blank temperature?	3.0°	<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
BMG Landfarm and Evaporation Pond

Project #:
AES 040605

Project Manager:
Ross Kennemer

Sampler: N. Willis

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1105166	BTEX + [redacted] (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (Gas, Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides (300.0)	TDS (SM2540C)			Air Bubbles (Y or N)
4-28-11	1006	H_2O	MW-4	6-40 mL glass 1-500 mL plastic	5-HCl 2-NON	-1	X		X									X	X			
"	1038	"	MW-1	"	"	-2	X		X									X	X			
"	1105	"	INTERSTITIAL WELL	"	"	-3	X		X									X	X			
"	1138	"	MW-2	"	"	-4	X		X									X	X			
"	1220	"	MW-3	"	"	-5	X		X									X	X			
		H_2O	TRIP BLANKS	2-40 mL GLASS	HCl	-6	X															
4-28-11	1248	SOIL	CELL #1	METH KIT 2-4oz glass		-7	X		X									X				
"	1314	"	CELL #2	"		-8	X		X									X				
"	1334	"	CELL #3	"		-9	X		X									X				
			~~TRIP~~ BLANK	MEOH		-10	X		X													
		AT 5/3/11	MEOH																			

Date:	Time:	Relinquished by:	Received by:	Date	Time
4-28-11	1645	[redacted]	Debrah Watson	4-28-11	1645
5-2-11	1600	Debrah Watson	[redacted]	5/3/11	1050

Remarks:

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

AES Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

March 7, 2011

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the January 2011 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On January 19, 2011, Animas Environmental Services, LLC (AES) completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner in late September 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on January 19, 2011. Groundwater samples were collected from

monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0; and
- Total Dissolved Solids (TDS) – SM 2540C.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 7.72°C (IW) to 11.66°C (MW-4), and groundwater pH ranged from 6.40 (IW) to 7.96 (MW-2). Conductivity readings were between 0.870 mS (MW-3) to 184.5 mS (IW). DO readings ranged from 1.71 mg/L (IW) to 6.95 mg/L (MW-4). Groundwater ORP ranged from -65.6 mV (IW) to 132.8 mV (MW-3). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the January 2011 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, below the New Mexico Water Quality Control Commission (WQCC) standards. All monitor wells had TPH concentrations below laboratory detection limits as well, with the exception of the interstitial well, which had a reported concentration of 0.34 mg/L GRO and 7.4 mg/L DRO.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled but have remained relatively stable. The results above laboratory detection limits have been summarized as follows:

- TPH-GRO: IW (0.34 mg/L);
- TPH-DRO: IW (7.4 mg/L);
- Chloride: IW (140,000 mg/L), MW-1 (13 mg/L), MW-2 (26 mg/L), MW-3 (27 mg/L), and MW-4 (19 mg/L);
- TDS: IW (173,000 mg/L), MW-1 (665 mg/L), MW-2 (750 mg/L), MW-3 (630 mg/L), and MW-4 (690 mg/L).

The analytical results for the groundwater samples collected during the January 2011 sampling event are presented in Tables 2 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from 2 feet below ground surface in each of Cell #1, Cell #2, and Cell #3. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH (GRO, MRO, and DRO) per EPA Method 8015B; and
- Chlorides per EPA Method 300.0.

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES observations of the treatment cells at the time of sample collection, Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Treatment Cell #4 is not in use, and therefore was not sampled. Results are summarized as follows:

- BTEX concentrations were below laboratory detection limits in each cell;
- TPH concentrations were reported below the laboratory detection limits in Cell #2 and Cell #3. Cell # 1 had reported TPH concentrations at 72 mg/kg (DRO and MRO);
- Chloride concentrations were reported below the laboratory detection limit of 15 mg/kg in Cell #2 and Cell #3. Cell #1 had a chloride concentration of 54 mg/kg. All three samples are below the applicable NMOCD standard of 500 mg/kg.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented on Figure 2. Laboratory analytical results are summarized in Table 3 and Table 4, and laboratory reports are presented in Appendix A.

3.0 Conclusions and Recommendations

Based on the results of the January 2011 sampling event at the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH.

Groundwater samples from the interstitial well had concentrations below laboratory detection limits for BTEX. The interstitial well had reported concentrations of TPH-GRO (0.34 mg/L), TPH-DRO (7.4 mg/L), chloride (140,000 mg/L), and TDS (173,000 mg/L) above laboratory detection limits.

Landfarm Cells #1 through #3 were also sampled in January 2011. Soil analytical results from treatment zone monitoring conducted within the landfarm were below laboratory detection limits for BTEX. TPH concentrations ranged from below laboratory detection limits (Cells #2 and #3) to 72 mg/kg (Cell #1). Soil chloride concentrations were reported below the laboratory detection limit of 15 mg/kg in Cell #2 and Cell #3 and were reported at 54 mg/kg in Cell #1.

AES has scheduled the next quarterly treatment zone monitoring and sampling of evaporation pond monitor wells to occur in April 2011.

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

Sincerely,

EM for Deborah Watson

Deborah Watson
Project Manager

Elizabeth D McNally

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Soil BTEX and TPH Concentrations
Table 4. Soil Chloride Concentrations

Figures

Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
Figure 2. Treatment Zone Monitoring Locations

Appendices

Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

cc: Mike Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington NM 87402

Brandon Powell
NM Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
Interstitial Well	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
Interstitial Well	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
Interstitial Well	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-1	12-Oct-10	TBS	39.32	12.16	0.892	3.66	7.33	142.8
MW-1	19-Jan-11	TBS	39.42	11.22	0.924	3.51	7.81	110.4
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0
MW-2	12-Oct-10	TBS	40.38	12.81	0.928	4.13	7.87	68.7
MW-2	19-Jan-11	TBS	40.49	10.51	0.888	3.22	7.96	122.7
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-3	12-Oct-10	TBS	39.61	12.85	0.834	3.86	7.59	130.8
MW-3	19-Jan-11	TBS	39.71	10.94	0.870	5.11	7.78	132.8
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1
MW-4	12-Oct-10	TBS	40.12	12.84	0.963	5.04	7.28	162.5
MW-4	19-Jan-11	TBS	40.23	11.66	0.997	6.95	7.65	53.4

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
Interstitial Well	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
Interstitial Well	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656

TABLE 2

Summary of Groundwater Analytical Results

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615
MW-1	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	643
MW-1	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	13	665
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-2	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	615
MW-2	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	750
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-3	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	567
MW-3	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	27	630
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700
MW-4	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	865
MW-4	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	690

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	-
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	-
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	-
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	-
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 3

Soil BTEX and TPH Concentrations

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.353' W 106° 51.999'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50
Cell #1	#1	N 36° 23.372' W 106° 52.051'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	22	50
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	-
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	-

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.403' W 106° 51.943'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #2	#2	N 36° 23.405' W 106° 52.011'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	-
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	-
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	-
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.353' W 106° 51.855'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.352' W 106° 51.911'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

TABLE 3

Soil BTEX and TPH Concentrations

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

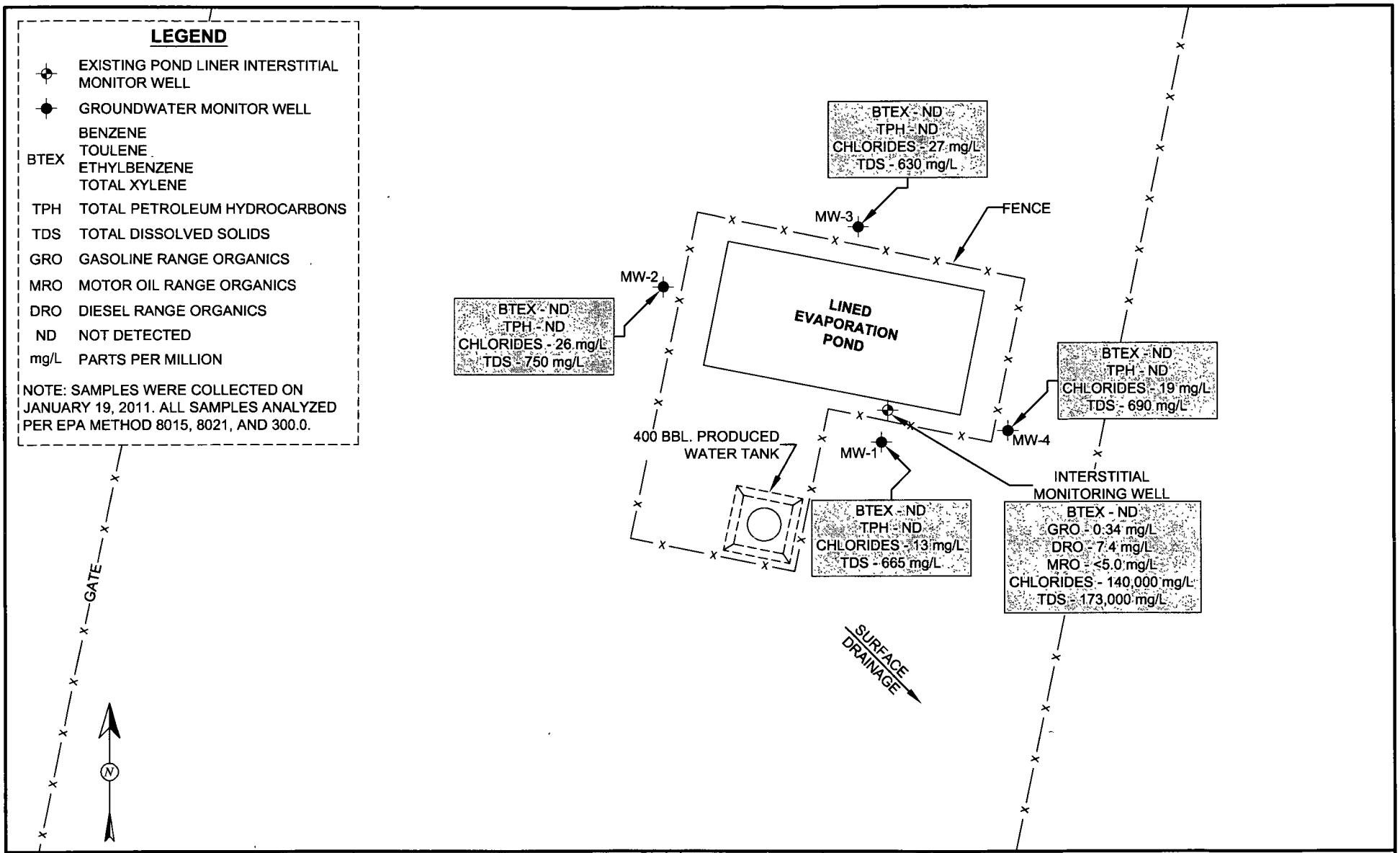
TABLE 4
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Chloride (mg/kg)
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #1	#1	11-Jan-10	2	22
Cell #1	#1	16-Apr-10	2	18
Cell #1	#1	8-Jul-10	2	<15
Cell #1	#1	12-Oct-10	2	<30
Cell #1	#1	19-Jan-11	2	54
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #2	#2	11-Jan-10	2	16
Cell #2	#2	16-Apr-10	2	6.0
Cell #2	#2	8-Jul-10	2	<15
Cell #2	#2	12-Oct-10	2	<30
Cell #2	#2	19-Jan-11	2	<15
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86

TABLE 4
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
		NMOCD Soil Standard		**500**
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28
Cell #3	#3	11-Jan-10	2	17
Cell #3	#3	16-Apr-10	2	20
Cell #3	#3	8-Jul-10	2	<15
Cell #3	#3	12-Oct-10	2	43
Cell #3	#3	19-Jan-11	2	<15

Note: * = Concentrations reported are in mg/L
NA = Not Analyzed



Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 28, 2010
REVISIONS BY: C. Lameman	**DATE REVISED:** March 7, 2011
CHECKED BY: D. Watson	**DATE CHECKED:** February 9, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** March 7, 2011

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, JANUARY 2011

NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

FIGURE 2

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY MONITORING LOCATIONS JANUARY 2011

NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

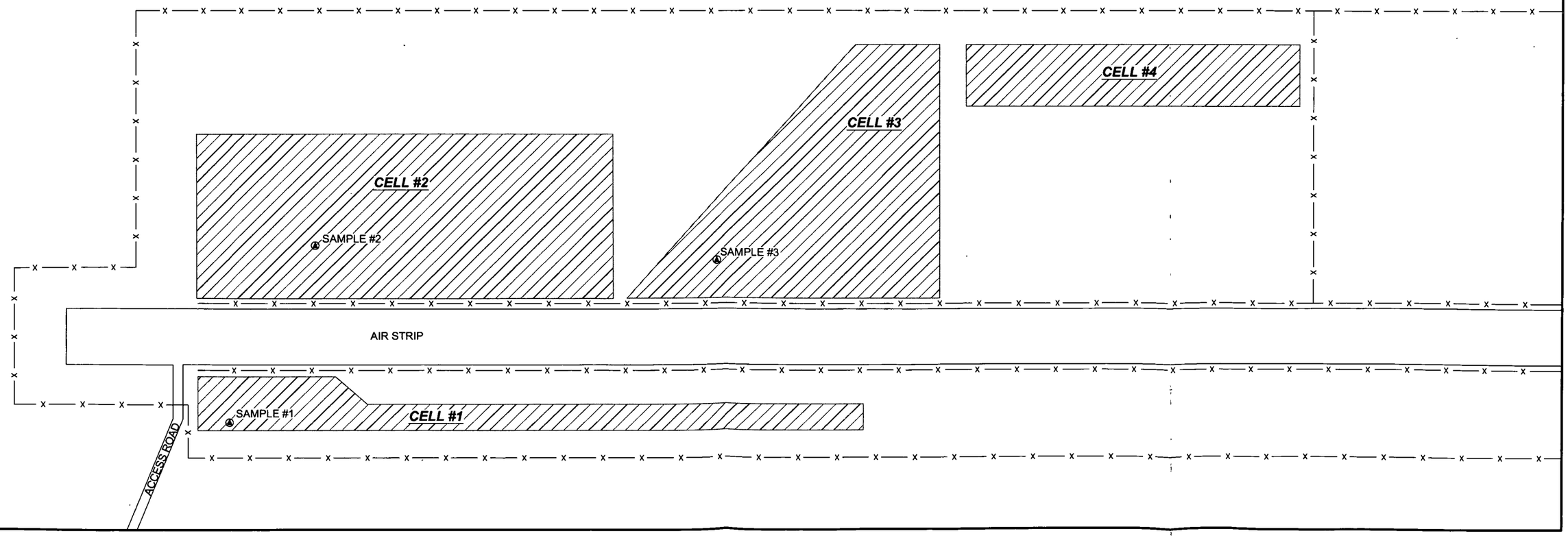
Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** May 29, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** March 7, 2011
CHECKED BY: D. Watson	**DATE CHECKED:** February 9, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** March 7, 2011

SUMMARY OF QUARTERLY TREATMENT ZONE MONITORING JANUARY 2011

LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	#1	N 36°23.372' W 106°52 051'	01/19/11	2	<0.050	<0.050	<0.050	<0.10	<5.0	22	50	54
CELL #2	#2	N 36°23.405' W 106°52.011'	01/19/11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
CELL #3	#3	N 36°23.352' W 106°51.911'	01/19/11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
CELL #4		NOT IN USE, NO SAMPLE										

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)



DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. Willis

Project No.: AES 040605
Date: 1-19-10
Time: 1300
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1419		39.42		
MW-2	1451		40.49		
MW-3	1519		39.71		
MW-4	1339		40.23		
Interstitial	1313		9.83		

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.42 **Time:** 1419 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-19-11
Arrival Time: 1417
Air Temp: 38°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1422	11.36	1.179	3.58	8.38	107.0	0.25	
1425	11.27	0.932	3.47	8.00	108.8	0.5	
1428	11.22	0.924	3.51	7.81	110.4	0.5	
							Low Yield
1433	—	—	—	—	—	—	Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.49 **Time:** 1451 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-19-11
Arrival Time: 1448
Air Temp: 38°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1453	10.19	1.123	3.30	8.44	119.3	0.25	
1456	10.62	0.894	3.49	6.18	118.8	0.5	
1459	10.51	0.888	3.22	7.96	122.7	0.5	
						Ø	
							Low Yield
VOC 1504	—	—	—	—	—	—	Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.71 **Time:** 1519 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-19-11
Arrival Time: 1517
Air Temp: 38°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1521	10.98	1.048	4.05	8.48	125.6	0.75	
1524	11.10	0.878	4.08	8.11	128.1	0.5	
1527	11.14	0.869	4.35	7.94	130.8	0.5	
1530	11.06	0.870	4.55	7.84	132.0	0.5	
1533	10.94	0.870	5.11	7.78	132.8	0.5	
						0.5	
1538							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.23 **Time:** 1339 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-19-11
Arrival Time: 1336
Air Temp: 38°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1341	11.25	1.618	5.90	8.25	-40.8	0.25	
1344	11.59	1.047	6.14	8.08	-7.4	0.5	
1347	11.72	1.008	6.78	7.87	15.7	0.5	
1350	11.64	1.003	6.75	7.75	33.1	0.5	
1353	11.70	1.000	6.86	7.69	45.1	0.5	
1356	11.66	0.997	6.95	7.65	53.4	0.5	
1401							Samples collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: Interstitial Well

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: No Purge
Well Diameter (in): 2 12
Initial D.T.W. (ft): _____ **Time:** _____
Confirm D.T.W. (ft): 9.83 **Time:** 1313
Final D.T.W. (ft): _____ **Time:** _____
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-19-11
Arrival Time: 1309
Air Temp: 38°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 12.1
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1315	7.72	184.5	1.71	6.40	-65.6		
1320	—						Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, February 08, 2011

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm/ Evap. Pond

Order No.: 1101669

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 1/21/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	*1101669*	**Collection Date:**	1/19/2011 2:33:00 PM
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	*1101669-01*	**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	1/26/2011 11:38:12 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/26/2011 11:38:12 PM
Surr: DNOP	127	86.9-151		%REC	1	1/26/2011 11:38:12 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/31/2011 3:46:34 PM
Surr: BFB	82.2	79.4-132		%REC	1	1/31/2011 3:46:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/31/2011 3:46:34 PM
Toluene	ND	1.0		µg/L	1	1/31/2011 3:46:34 PM
Ethylbenzene	ND	1.0		µg/L	1	1/31/2011 3:46:34 PM
Xylenes, Total	ND	2.0		µg/L	1	1/31/2011 3:46:34 PM
Surr: 4-Bromofluorobenzene	88.8	81.3-151		%REC	1	1/31/2011 3:46:34 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	13	0.50		mg/L	1	1/24/2011 11:09:08 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	665	100		mg/L	1	1/26/2011 9:45:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	1101669	**Collection Date:**	1/19/2011 3:04:00 PM
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-02	**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	1/27/2011 12:11:02 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/27/2011 12:11:02 AM
Surr: DNOP	120	86.9-151		%REC	1	1/27/2011 12:11:02 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/31/2011 4:15:23 PM
Surr: BFB	82.3	79.4-132		%REC	1	1/31/2011 4:15:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/31/2011 4:15:23 PM
Toluene	ND	1.0		µg/L	1	1/31/2011 4:15:23 PM
Ethylbenzene	ND	1.0		µg/L	1	1/31/2011 4:15:23 PM
Xylenes, Total	ND	2.0		µg/L	1	1/31/2011 4:15:23 PM
Surr: 4-Bromofluorobenzene	90.4	81.3-151		%REC	1	1/31/2011 4:15:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	26	10		mg/L	20	1/24/2011 11:42:50 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	750	200		mg/L	1	1/26/2011 9:45:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	1101669	**Collection Date:**	1/19/2011 3:38:00 PM
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-03	**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	1/27/2011 12:43:53 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/27/2011 12:43:53 AM
Surr: DNOP	122	86.9-151		%REC	1	1/27/2011 12:43:53 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/31/2011 4:44:13 PM
Surr: BFB	80.8	79.4-132		%REC	1	1/31/2011 4:44:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/31/2011 4:44:13 PM
Toluene	ND	1.0		µg/L	1	1/31/2011 4:44:13 PM
Ethylbenzene	ND	1.0		µg/L	1	1/31/2011 4:44:13 PM
Xylenes, Total	ND	2.0		µg/L	1	1/31/2011 4:44:13 PM
Surr: 4-Bromofluorobenzene	88.5	81.3-151		%REC	1	1/31/2011 4:44:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	27	10		mg/L	20	1/25/2011 12:05:17 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	630	200		mg/L	1	1/26/2011 9:45:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	1101669	**Collection Date:**	1/19/2011 2:01:00 PM
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-04	**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	1/27/2011 1:17:15 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/27/2011 1:17:15 AM
Surr: DNOP	120	86.9-151		%REC	1	1/27/2011 1:17:15 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/31/2011 5:13:09 PM
Surr: BFB	81.4	79.4-132		%REC	1	1/31/2011 5:13:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/31/2011 5:13:09 PM
Toluene	ND	1.0		µg/L	1	1/31/2011 5:13:09 PM
Ethylbenzene	ND	1.0		µg/L	1	1/31/2011 5:13:09 PM
Xylenes, Total	ND	2.0		µg/L	1	1/31/2011 5:13:09 PM
Surr: 4-Bromofluorobenzene	89.1	81.3-151		%REC	1	1/31/2011 5:13:09 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	19	0.50		mg/L	1	1/25/2011 12:38:59 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	690	100		mg/L	1	1/26/2011 9:45:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	1101669	**Collection Date:**	1/19/2011 1:20:00 PM
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	7.4	1.0		mg/L	1	1/27/2011 1:50:51 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/27/2011 1:50:51 AM
Surr: DNOP	115	86.9-151		%REC	1	1/27/2011 1:50:51 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.34	0.050		mg/L	1	2/1/2011 11:24:07 AM
Surr: BFB	87.8	79.4-132		%REC	1	2/1/2011 11:24:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	2/1/2011 11:24:07 AM
Toluene	ND	1.0		µg/L	1	2/1/2011 11:24:07 AM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2011 11:24:07 AM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2011 11:24:07 AM
Surr: 4-Bromofluorobenzene	95.8	81.3-151		%REC	1	2/1/2011 11:24:07 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	140000	5000		mg/L	10000	2/7/2011 2:30:48 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	173000	1000		mg/L	1	1/26/2011 9:45:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TRIP BLANK
Lab Order:	1101669	**Collection Date:**	
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/31/2011 6:39:51 PM
Surr: BFB	87.2	79.4-132		%REC	1	1/31/2011 6:39:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/31/2011 6:39:51 PM
Toluene	ND	1.0		µg/L	1	1/31/2011 6:39:51 PM
Ethylbenzene	ND	1.0		µg/L	1	1/31/2011 6:39:51 PM
Xylenes, Total	ND	2.0		µg/L	1	1/31/2011 6:39:51 PM
Surr: 4-Bromofluorobenzene	98.6	81.3-151		%REC	1	1/31/2011 6:39:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1
Lab Order:	1101669	**Collection Date:**	1/19/2011 11:51:00 AM
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-07	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	22	10		mg/Kg	1	1/30/2011 1:09:09 AM
Motor Oil Range Organics (MRO)	50	50		mg/Kg	1	1/30/2011 1:09:09 AM
Surr: DNOP	114	81.8-129		%REC	1	1/30/2011 1:09:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/31/2011 10:59:45 PM
Surr: BFB	90.7	89.7-125		%REC	1	1/31/2011 10:59:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	1/28/2011 8:57:11 PM
Toluene	ND	0.050		mg/Kg	1	1/28/2011 8:57:11 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/28/2011 8:57:11 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/28/2011 8:57:11 PM
Surr: 4-Bromofluorobenzene	98.2	88.9-151		%REC	1	1/28/2011 8:57:11 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	54	15		mg/Kg	10	2/3/2011 4:05:59 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

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2
Lab Order:	1101669	**Collection Date:**	1/19/2011 12:40:00 PM
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-08	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/30/2011 1:42:30 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/30/2011 1:42:30 AM
Surr: DNOP	110	81.8-129		%REC	1	1/30/2011 1:42:30 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/31/2011 11:28:37 PM
Surr: BFB	91.9	89.7-125		%REC	1	1/31/2011 11:28:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	1/28/2011 9:26:03 PM
Toluene	ND	0.050		mg/Kg	1	1/28/2011 9:26:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/28/2011 9:26:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/28/2011 9:26:03 PM
Surr: 4-Bromofluorobenzene	111	88.9-151		%REC	1	1/28/2011 9:26:03 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	15		mg/Kg	10	2/3/2011 4:23:24 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3
Lab Order:	1101669	**Collection Date:**	1/19/2011 12:20:00 PM
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-09	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/30/2011 2:15:52 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/30/2011 2:15:52 AM
Surr: DNOP	110	81.8-129		%REC	1	1/30/2011 2:15:52 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/31/2011 11:57:27 PM
Surr: BFB	91.1	89.7-125		%REC	1	1/31/2011 11:57:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	1/28/2011 9:54:54 PM
Toluene	ND	0.050		mg/Kg	1	1/28/2011 9:54:54 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/28/2011 9:54:54 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/28/2011 9:54:54 PM
Surr: 4-Bromofluorobenzene	110	88.9-151		%REC	1	1/28/2011 9:54:54 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	15		mg/Kg	10	2/3/2011 4:40:48 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Feb-11*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MEOH BLANK
Lab Order:	1101669	**Collection Date:**	
Project:	BMG Landfarm/ Evap. Pond	**Date Received:**	1/21/2011
Lab ID:	1101669-10	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	1/28/2011 10:23:46 PM
Toluene	ND	0.050		mg/Kg	1	1/28/2011 10:23:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/28/2011 10:23:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/28/2011 10:23:46 PM
Surr: 4-Bromofluorobenzene	109	88.9-151		%REC	1	1/28/2011 10:23:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/ Evap. Pond **Work Order:** 1101669

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-25504		*MBLK*				Batch ID: **25504**		Analysis Date:		2/2/2011 4:29:36 PM	
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-25504		*LCS*				Batch ID: **25504**		Analysis Date:		2/2/2011 4:47:00 PM	
Chloride	14.20	mg/Kg	1.5	15	0	94.6	90	110			
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID: **R43314**		Analysis Date:		1/24/2011 10:53:25 AM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R43314**		Analysis Date:		1/25/2011 1:01:27 AM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R43543**		Analysis Date:		2/7/2011 1:45:52 PM	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID: **R43314**		Analysis Date:		1/24/2011 11:04:38 AM	
Chloride	5.129	mg/L	0.50	5	0	103	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R43314**		Analysis Date:		1/25/2011 1:12:41 AM	
Chloride	5.005	mg/L	0.50	5	0	100	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R43543**		Analysis Date:		2/7/2011 1:57:06 PM	
Chloride	4.794	mg/L	0.50	5	0	95.9	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-25371		*MBLK*				Batch ID: **25371**		Analysis Date:		1/25/2011 7:24:30 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-25371		*LCS*				Batch ID: **25371**		Analysis Date:		1/25/2011 7:58:21 AM	
Diesel Range Organics (DRO)	38.16	mg/Kg	10	50	0	76.3	66.2	120			
Sample ID: LCSD-25371		*LCSD*				Batch ID: **25371**		Analysis Date:		1/25/2011 8:32:12 AM	
Diesel Range Organics (DRO)	37.93	mg/Kg	10	50	0	75.9	66.2	120	0.605	14.3	
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-25348		*MBLK*				Batch ID: **25348**		Analysis Date:		1/26/2011 4:55:19 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-25348		*LCS*				Batch ID: **25348**		Analysis Date:		1/26/2011 5:29:25 PM	
Diesel Range Organics (DRO)	5.543	mg/L	1.0	5	0	111	74	157			
Sample ID: LCSD-25348		*LCSD*				Batch ID: **25348**		Analysis Date:		1/26/2011 6:03:19 PM	
Diesel Range Organics (DRO)	6.173	mg/L	1.0	5	0	123	74	157	10.8	23	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/ Evap. Pond **Work Order:** 1101669

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-25437		*MBLK*				Batch ID:	**25437**	Analysis Date:		1/28/2011 4:37:40 PM	
Gasoline Range Organics (GRO)	9.170	mg/Kg	5.0								
Sample ID: MB-25410		*MBLK*				Batch ID:	**25410**	Analysis Date:		2/1/2011 4:45:55 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: MB-25437		*MBLK*				Batch ID:	**25437**	Analysis Date:		2/1/2011 5:14:39 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-25437		*LCS*				Batch ID:	**25437**	Analysis Date:		1/28/2011 6:04:15 PM	
Gasoline Range Organics (GRO)	25.55	mg/Kg	5.0	25	0	102	95.7	120			
Sample ID: LCS-25410		*LCS*				Batch ID:	**25410**	Analysis Date:		2/1/2011 2:50:29 AM	
Gasoline Range Organics (GRO)	26.74	mg/Kg	5.0	25	0	107	95.7	120			
Sample ID: LCSD-25437		*LCSD*				Batch ID:	**25437**	Analysis Date:		1/28/2011 6:33:05 PM	
Gasoline Range Organics (GRO)	29.08	mg/Kg	5.0	25	0	116	95.7	120	12.9	14.8	
***Method:* EPA Method 8015B: Gasoline Range**											
Sample ID: 1101669-01A MSD		*MSD*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 7:37:34 PM	
Gasoline Range Organics (GRO)	0.5368	mg/L	0.050	0.5	0	107	74.6	134	6.94	17	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 9:01:43 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R43460**	Analysis Date:		2/1/2011 8:59:34 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 11:26:24 AM	
Gasoline Range Organics (GRO)	0.5522	mg/L	0.050	0.5	0	110	83.7	124			
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R43460**	Analysis Date:		2/1/2011 11:53:01 AM	
Gasoline Range Organics (GRO)	0.5616	mg/L	0.050	0.5	0	112	83.7	124			
Sample ID: 1101669-01A MS		*MS*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 7:08:41 PM	
Gasoline Range Organics (GRO)	0.5008	mg/L	0.050	0.5	0	100	74.6	134			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/ Evap. Pond **Work Order:** 1101669

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-25437		*MBLK*				Batch ID:	**25437**	Analysis Date:		1/28/2011 4:37:40 PM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: MB-25410		*MBLK*				Batch ID:	**25410**	Analysis Date:		2/1/2011 4:45:55 AM	
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-25437		*LCS*				Batch ID:	**25437**	Analysis Date:		1/28/2011 5:06:33 PM	
Benzene	1.015	mg/Kg	0.050	1	0	101	83.3	107			
Toluene	0.9793	mg/Kg	0.050	1	0	97.9	74.3	115			
Ethylbenzene	1.025	mg/Kg	0.050	1	0	102	80.9	122			
Xylenes, Total	3.126	mg/Kg	0.10	3	0	104	85.2	123			
Sample ID: LCS-25410		*LCS*				Batch ID:	**25410**	Analysis Date:		2/1/2011 4:17:03 AM	
Methyl tert-butyl ether (MTBE)	1.045	mg/Kg	0.10	1	0	104	65.5	229			
Benzene	0.9954	mg/Kg	0.050	1	0	99.5	83.3	107			
Toluene	0.9755	mg/Kg	0.050	1	0	97.5	74.3	115			
Ethylbenzene	1.015	mg/Kg	0.050	1	0.0125	100	80.9	122			
Xylenes, Total	3.105	mg/Kg	0.10	3	0.0169	103	85.2	123			
Sample ID: LCSD-25437		*LCSD*				Batch ID:	**25437**	Analysis Date:		1/28/2011 5:35:24 PM	
Benzene	1.041	mg/Kg	0.050	1	0	104	83.3	107	2.59	15.6	
Toluene	1.005	mg/Kg	0.050	1	0	101	74.3	115	2.63	19.2	
Ethylbenzene	1.035	mg/Kg	0.050	1	0	103	80.9	122	0.961	19.5	
Xylenes, Total	3.196	mg/Kg	0.10	3	0	107	85.2	123	2.19	17	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/ Evap. Pond **Work Order:** 1101669

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1101669-02A MSD		*MSD*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 8:35:18 PM	
Benzene	18.30	µg/L	1.0	20	0	91.5	87.7	108	9.22	13.8	
Toluene	18.37	µg/L	1.0	20	0	91.8	84.2	115	9.53	17.1	
Ethylbenzene	18.53	µg/L	1.0	20	0	92.6	81.3	115	8.26	15.3	
Xylenes, Total	56.13	µg/L	2.0	60	0	93.5	83	118	7.68	13	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 9:01:43 AM	
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: 5ML RB		*MBLK*				Batch ID:	**R43460**	Analysis Date:		2/1/2011 8:59:34 AM	
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:	**R43435**	Analysis Date:		1/31/2011 11:55:18 AM	
Benzene	19.02	µg/L	1.0	20	0	95.1	84.7	118			
Toluene	19.64	µg/L	1.0	20	0	98.2	82	123			
Ethylbenzene	19.93	µg/L	1.0	20	0	99.7	83	118			
Xylenes, Total	61.10	µg/L	2.0	60	0	102	85.4	119			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R43460**	Analysis Date:		2/1/2011 12:21:49 PM	
Benzene	20.01	µg/L	1.0	20	0	100	84.7	118			
Toluene	20.50	µg/L	1.0	20	0	102	82	123			
Ethylbenzene	20.35	µg/L	1.0	20	0	102	83	118			
Xylenes, Total	62.40	µg/L	2.0	60	0	104	85.4	119			
Sample ID: 1101669-02A MS		*MS*				Batch ID:	**R43435**	Analysis Date:		1/31/2011 8:06:27 PM	
Benzene	20.06	µg/L	1.0	20	0	100	87.7	108			
Toluene	20.20	µg/L	1.0	20	0	101	84.2	115			
Ethylbenzene	20.12	µg/L	1.0	20	0	101	81.3	115			
Xylenes, Total	60.61	µg/L	2.0	60	0	101	83	118			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-25364		*MBLK*				Batch ID:	**25364**	Analysis Date:		1/26/2011 9:45:00 AM	
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-25364		*LCS*				Batch ID:	**25364**	Analysis Date:		1/26/2011 9:45:00 AM	
Total Dissolved Solids	1015	mg/L	20.0	1000	7	101	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL | Date Received: 1/21/2011

Work Order Number 1101669 | Received by: AMG

Checklist completed by: Signature 1/21/11 Date | Sample ID labels checked by: Initials MG

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ✔	No	Not Present	
Custody seals intact on shipping container/cooler?	Yes ✔	No	Not Present	Not Shipped
Custody seals intact on sample bottles?	Yes	No	N/A ✔	
Chain of custody present?	Yes ✔	No		
Chain of custody signed when relinquished and received?	Yes ✔	No		
Chain of custody agrees with sample labels?	Yes ✔	No		
Samples in proper container/bottle?	Yes ✔	No		
Sample containers intact?	Yes ✔	No		
Sufficient sample volume for indicated test?	Yes ✔	No		
All samples received within holding time?	Yes ✔	No		Number of preserved bottles checked for pH.
Water - VOA vials have zero headspace?	No VOA vials submitted	Yes ✔	No	
Water - Preservation labels on bottle and cap match?	Yes	No	N/A ✔	
Water - pH acceptable upon receipt?	Yes	No	N/A ✔	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	1.9°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted | *Date contacted:* | *Person contacted*

Contacted by. | Regarding:

Comments:

Corrective Action

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
BMG Landfarm/Evap. Pond

Project #:
AES 040605

Project Manager:
Ross Kennemer

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1101060C61	BTEX + [redacted] (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (C6 - C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides (300.0)	TDS (SM 2540 C)			Air Bubbles (Y or N)
1-14-11	1433	H_2O	MW-1	6-40mL glass 1-500mL plastic	2-Non 5-HCl	1	X		X									X	X			
"	1504	"	MW-2	"	"	2	X		X									X	X			
"	1539	"	MW-3	"	"	3	X		X									X	X			
"	1401	"	MW-4	"	"	4	X		X									X	X			
1-19-11	1320	"	Interstitial well	"	"	5	X		X									X	X			
		"	Trip Blanks	2-40 mL glass	"	6	X															
1-19-11	1151	Soil	Cell #1	2-4oz glass 2-Meth.	2-Non 2-Meth.	7	X		X									X				
1-19-11	1240	"	Cell #2	"	"	8	X		X									X				
1-19-11	1220	"	Cell #3	"	"	9	X		X									X				
			Meth Blank	2-Meth	2-Meth	10	X															

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
1-19-10	1700			1-19-10	1700
Date:	Time:	Relinquished by:	Received by:	Date	Time
1-20-10	1700			1/21/11	1009

Remarks:

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

BMG

BENSON-MONTIN-GREER DRILLING CORP

4900 College Boulevard, Farmington, NM 87402 Office: 505.325.8874 Fax: 505.327.9207

March 7, 2011

Mr. Brad Jones
NMOCD Environment Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2010 ANNUAL REPORT CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY, PERMIT No. NM-02-0004
Section 20, Township 25 North, Range 1 East, Rio Arriba County

Dear Mr. Jones:

Please find enclosed the referenced annual report for 2010. As you may recall, a leak in the evaporation pond's primary liner was discovered in April of 2008. All water was removed from the pond and the liner replaced. Monitoring wells were installed and those testing results are included with this report. The pond was returned to use in November of 2008.

Detailed quarterly reports have been sent to your office during 2009 that included figures of sample locations, chains of custody, and laboratory analyses. Enclosed are Summary Tables of those sample results for 2009 and the past several years.

If you have any questions please contact me at 505-325-8874 or by email at: mikedimond@bmgdrilling.com.

Sincerely,

Mike Dimond
President

Cc: NMOCD, Aztec; File

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
Interstitial Well	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
Interstitial Well	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-1	12-Oct-10	TBS	39.32	12.16	0.892	3.66	7.33	142.8
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	12-Oct-10	TBS	40.38	12.81	0.928	4.13	7.87	68.7
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-3	12-Oct-10	TBS	39.61	12.85	0.834	3.86	7.59	130.8
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1
MW-4	12-Oct-10	TBS	40.12	12.84	0.963	5.04	7.28	162.5

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
Interstitial Well	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
Interstitial Well	12-Oct-10	<10	<10	<10	<20	<0.50	10	<15	120,000	184,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615
MW-1	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	643
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-2	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	615
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-3	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	567
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700
MW-4	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	865

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		6010	6010	6010	6010	6010	7470	6010	6010
NM WQCC STANDARD		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.05
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
Interstitial Well	16-Apr-10	NA	NA	NA	<0.12	<0.10	NA	NA	NA
Interstitial Well	8-Jul-10	<0.50	**110**	**0.075**	<0.15	<0.13	<0.00020	<1.3	<0.13
Interstitial Well	12-Oct-10	NA	NA	NA	<0.30	<0.25	NA	NA	NA
MW-1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW-1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW-1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW-1	16-Apr-10	NA	NA	NA	0.012	0.0070	NA	NA	NA
MW-1	8-Jul-10	<0.020	0.13	<0.0020	0.0084	<0.0050	<0.00020	<0.050	<0.0050
MW-1	12-Oct-10	NA	NA	NA	<0.0060	0.0055	NA	NA	NA
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-2	16-Apr-10	NA	NA	NA	<0.0060	<0.0050	NA	NA	NA
MW-2	8-Jul-10	<0.020	0.28	<0.0020	0.025	<0.0050	<0.00020	<0.050	<0.0050
MW-2	12-Oct-10	NA	NA	NA	<0.0060	0.0078	NA	NA	NA
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-3	16-Apr-10	NA	NA	NA	0.010	<0.0050	NA	NA	NA
MW-3	8-Jul-10	<0.020	0.28	<0.0020	0.028	0.0065	<0.00020	<0.050	<0.0050
MW-3	12-Oct-10	NA	NA	NA	<0.0060	0.0073	NA	NA	NA
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		6010	6010	6010	6010	6010	7470	6010	6010
NM WQCC STANDARD		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.05
MW-4	16-Apr-10	NA	NA	NA	0.0079	<0.0050	NA	NA	NA
MW-4	8-Jul-10	<0.020	0.16	<0.0020	0.019	<0.0050	<0.00020	<0.050	<0.0050
MW-4	12-Oct-10	NA	NA	NA	<0.0060	0.0079	NA	NA	NA

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	-
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	-
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	-
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	-
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.353' W 106° 51.999'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	-
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.403' W 106° 51.943'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	-
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	-
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	-
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.353' W 106° 51.855'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Chloride (mg/kg)
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #1	#1	11-Jan-10	2	22
Cell #1	#1	16-Apr-10	2	18
Cell #1	#1	8-Jul-10	2	<15
Cell #1	#1	12-Oct-10	2	<30
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #2	#2	11-Jan-10	2	16
Cell #2	#2	16-Apr-10	2	6.0
Cell #2	#2	8-Jul-10	2	<15
Cell #2	#2	12-Oct-10	2	<30
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26

TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Chloride (mg/kg)
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28
Cell #3	#3	11-Jan-10	2	17
Cell #3	#3	16-Apr-10	2	20
Cell #3	#3	8-Jul-10	2	<15
Cell #3	#3	12-Oct-10	2	43

Note: * = Concentrations reported are in mg/L
NA = Not Analyzed

AES Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

November 03, 2010

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the October 2010 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On October 12, 2010, Animas Environmental Services, LLC (AES) completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner in late September 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on October 12, 2010. Groundwater samples were collected from

monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0;
- Total Dissolved Solids (TDS) – SM 2540C; and
- Chromium and Lead – EPA 6010.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and ORP for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 12.16°C (MW-1) to 19.37°C (IW), and groundwater pH ranged from 6.67 (IW) to 7.87 (MW-2). Conductivity readings were between 0.834 mS (MW-3) to 176.1 mS (IW). Groundwater ORP ranged from -77.0 mV (IW) to 162.5 mV (MW-4). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the October 2010 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, below the New Mexico Water Quality Control Commission (WQCC) standards. All monitor wells had TPH concentrations below laboratory detection limits as well, with the exception of the interstitial well, which had a reported concentration of 10 mg/L DRO.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled but have remained relatively stable. Chromium concentrations were reported below laboratory detection limits (0.30 mg/L and 0.0060 mg/L) in all sampled wells. The results above laboratory detection limits have been summarized as follows:

- TPH-DRO: IW (10 mg/L);
- Chloride: IW (120,000 mg/L), MW-1 (15 mg/L), MW-2 (37 mg/L), MW-3 (30 mg/L), and MW-4 (22 mg/L);
- TDS: IW (184,000 mg/L), MW-1 (643 mg/L), MW-2 (615 mg/L), MW-3 (567 mg/L), and MW-4 (865 mg/L); and
- Lead: MW-1 (0.0055 mg/L), MW-2 (0.0078 mg/L), MW-3 (0.0073 mg/L), and MW-4 (0.0079 mg/L).

The analytical results for the groundwater samples collected during the October 2010 sampling event are presented in Tables 2 and 3 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from 2 feet below ground surface in each of Cell #1, Cell #2, and Cell #3. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH (GRO, MRO, and DRO) per EPA Method 8015B; and
- Chlorides per EPA Method 300.0.

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES observations of the treatment cells at the time of sample collection, Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis.

Treatment Cell #4 is not in use, and therefore was not sampled. Results are summarized as follows:

- BTEX concentrations were below laboratory detection limits in each cell;
- TPH concentrations were reported below the laboratory detection limit in Cell #3. Cell # 1 and Cell #2 had reported TPH concentrations at 6.7 mg/kg and 91 mg/kg, respectively ;
- Chloride concentrations were reported below the laboratory detection limit of 15 mg/kg in Cell #1 and Cell #2. Cell #3 had a chloride concentration of 43 mg/Kg. All three samples are below the applicable NMOCD standard of 500 mg/Kg.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented on Figure 2. Laboratory analytical results are summarized in Table 4 and Table 5, and laboratory reports are presented in Appendix A.

3.0 Conclusions and Recommendations

Based on the results of the October 2010 sampling event at the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH. Groundwater samples from MW-1 through MW-4 were also below applicable WQCC standards for chromium and lead.

Groundwater samples from the interstitial well had concentrations below laboratory detection limits for BTEX, chromium, and lead. The interstitial well had reported concentrations of TPH-DRO and chloride above laboratory detection limits, with 10 mg/L and 120,000 mg/L, respectively.

Landfarm Cells #1 through #3 were also sampled in October 2010. Soil analytical results from treatment zone monitoring conducted within the landfarm were below laboratory detection limits for BTEX. TPH concentrations ranged from below laboratory detection limits (Cell #3) to 91 mg/kg (Cell #2). Soil Chloride concentrations were reported below the laboratory detection limit of 30 mg/kg in Cell #1 and Cell #2, and at 43 mg/kg in Cell #3.

AES has scheduled the next quarterly treatment zone monitoring and sampling of evaporation pond monitor wells to occur in January 2011. AES recommends returning to annual sampling for chromium and lead in MW-1 through MW-4 and the interstitial well. This recommendation is based on four quarters of analytical results which have remained below the WQCC standards for both chromium and lead. Annual sampling of

lead and chromium will be conducted during the annual sampling event (third quarter 2011).

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

Sincerely,

CM for Deborah Watson

Deborah Watson
Project Manager

Elizabeth D McNally

Elizabeth McNally, PE

Attachments:

Tables
Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Summary of Groundwater Metals Analytical Results
Table 4. Soil BTEX and TPH Concentrations
Table 5. Soil Chloride Concentrations

Figures
Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
Figure 2. Treatment Zone Monitoring Locations

Appendices
Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

cc: Mike Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington NM 87402

Brandon Powell
NM Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

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TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
Interstitial Well	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
Interstitial Well	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-1	12-Oct-10	TBS	39.32	12.16	0.892	3.66	7.33	142.8
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (°C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-2	12-Oct-10	TBS	40.38	12.81	0.928	4.13	7.87	68.7
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-3	12-Oct-10	TBS	39.61	12.85	0.834	3.86	7.59	130.8
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1
MW-4	12-Oct-10	TBS	40.12	12.84	0.963	5.04	7.28	162.5

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
Interstitial Well	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
Interstitial Well	12-Oct-10	<10	<10	<10	<20	<0.50	10	<15	120,000	184,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615
MW-1	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	643
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-2	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	615
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-3	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	567
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700
MW-4	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	865

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
Interstitial Well	16-Apr-10	NA	NA	NA	<0.12	<0.10	NA	NA	NA
Interstitial Well	8-Jul-10	<0.50	**110**	**0.075**	<0.15	<0.13	<0.00020	<1.3	<0.13
Interstitial Well	12-Oct-10	NA	NA	NA	<0.30	<0.25	NA	NA	NA
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW- 1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW- 1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW- 1	16-Apr-10	NA	NA	NA	0.012	0.0070	NA	NA	NA
MW- 1	8-Jul-10	<0.020	0.13	<0.0020	0.0084	<0.0050	<0.00020	<0.050	<0.0050
MW-1	12-Oct-10	NA	NA	NA	<0.0060	0.0055	NA	NA	NA
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-2	16-Apr-10	NA	NA	NA	<0.0060	<0.0050	NA	NA	NA
MW-2	8-Jul-10	<0.020	0.28	<0.0020	0.025	<0.0050	<0.00020	<0.050	<0.0050
MW-2	12-Oct-10	NA	NA	NA	<0.0060	0.0078	NA	NA	NA
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-3	16-Apr-10	NA	NA	NA	0.010	<0.0050	NA	NA	NA
MW-3	8-Jul-10	<0.020	0.28	<0.0020	0.028	0.0065	<0.00020	<0.050	<0.0050
MW-3	12-Oct-10	NA	NA	NA	<0.0060	0.0073	NA	NA	NA
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	*Sample Date*	*Arsenic (mg/L)*	*Barium (mg/L)*	*Cadmium (mg/L)*	*Chromium (mg/L)*	*Lead (mg/L)*	*Mercury (mg/L)*	*Selenium (mg/L)*	*Silver (mg/L)*
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
MW-4	16-Apr-10	NA	NA	NA	0.0079	<0.0050	NA	NA	NA
MW-4	8-Jul-10	<0.020	0.16	<0.0020	0.019	<0.0050	<0.00020	<0.050	<0.0050
MW-4	12-Oct-10	NA	NA	NA	<0.0060	0.0079	NA	NA	NA

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	-
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	-
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	-
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	-
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.353' W 106° 51.999'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	-
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.403' W 106° 51.943'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	-
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	-
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	-
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.353' W 106° 51.855'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

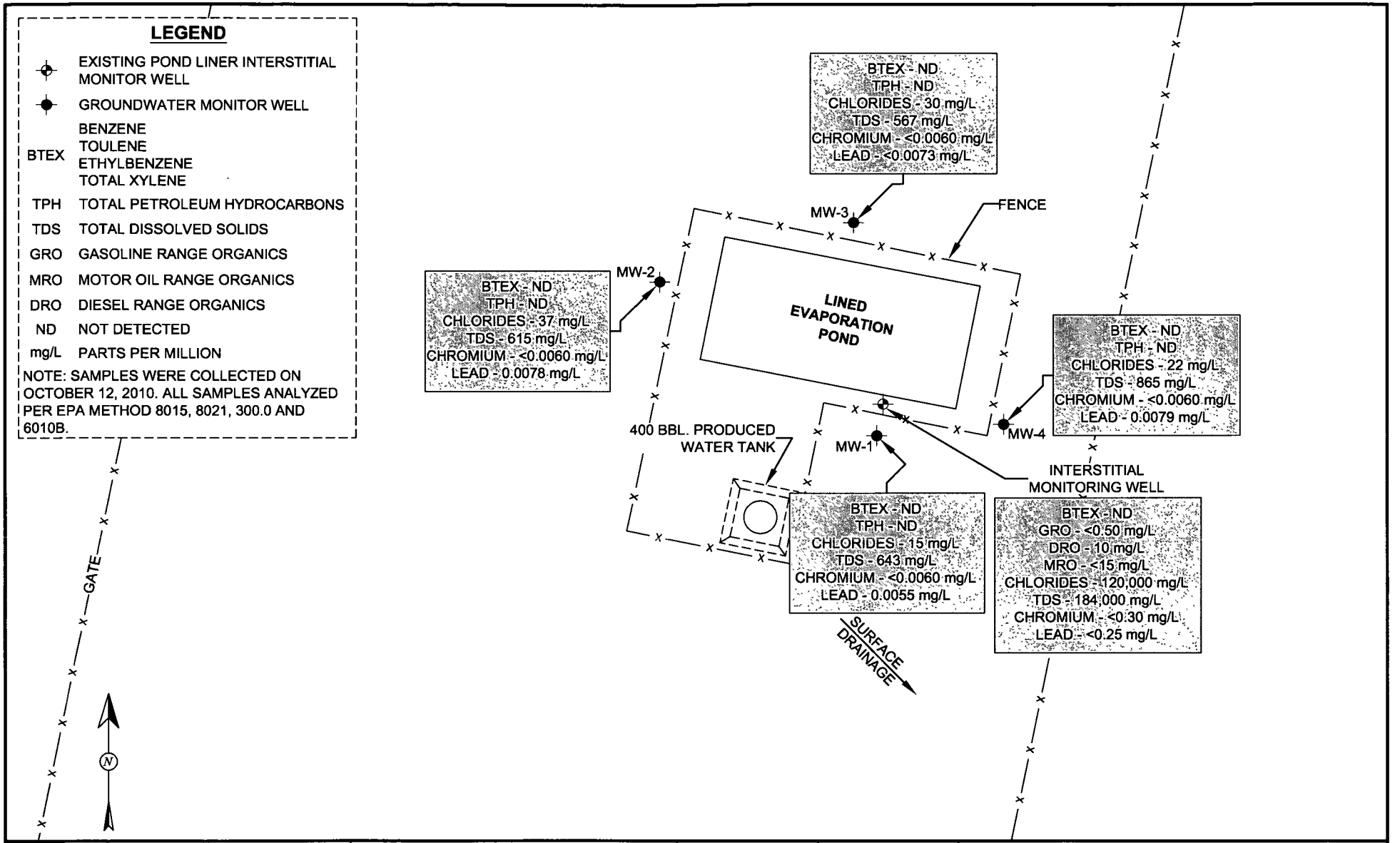
TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Chloride (mg/kg)
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #1	#1	11-Jan-10	2	22
Cell #1	#1	16-Apr-10	2	18
Cell #1	#1	8-Jul-10	2	<15
Cell #1	#1	12-Oct-10	2	<30
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #2	#2	11-Jan-10	2	16
Cell #2	#2	16-Apr-10	2	6.0
Cell #2	#2	8-Jul-10	2	<15
Cell #2	#2	12-Oct-10	2	<30
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26

TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
		NMOCD Soil Standard		**500**
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28
Cell #3	#3	11-Jan-10	2	17
Cell #3	#3	16-Apr-10	2	20
Cell #3	#3	8-Jul-10	2	<15
Cell #3	#3	12-Oct-10	2	43

Note: * = Concentrations reported are in mg/L
NA = Not Analyzed



Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 28, 2010
REVISIONS BY: C. Lameman	**DATE REVISED:** November 2, 2010
CHECKED BY: D. Watson	**DATE CHECKED:** November 2, 2010
APPROVED BY: E. McNally	**DATE APPROVED:** November 3, 2010

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, OCTOBER 2010

NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

S:\ANIMAS 2000\2010 PROJECTS\BMG\LANDFARM\MAPS AND DRAWINGS\NOVEMBER 2010 QMR DRAWINGS\FIGURE 1 EVAPORATION POND AND MONITOR WELL LOCATIONS

FIGURE 2

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY MONITORING LOCATIONS OCTOBER 2010

NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** May 29, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** November 2, 2010
CHECKED BY: D. Watson	**DATE CHECKED:** November 2, 2010
APPROVED BY: E. McNally	**DATE APPROVED:** November 3, 2010

SUMMARY OF QUARTERLY TREATMENT ZONE MONITORING OCTOBER 2010

LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	#1	N 36°23.353' W 106°51.999'	10/12/10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50	<30
CELL #2	#2	N 36°23.403' W 106°51.943'	10/12/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63	<30
CELL #3	#3	N 36°23.353' W 106°51.855'	10/12/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	43
CELL #4		NOT IN USE, NO SAMPLE										

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

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DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. Willis

Project No.: AES 040605
Date: 10-12-10
Time: ~~1245~~ 1237
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1331	—	39.32	—	
MW-2	1443	—	40.38	—	
MW-3	1516	—	39.61	—	
MW-4	1251	—	40.12	—	
Interstitial	1406	—	9.88	—	

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.32 **Time:** 1331 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 10-12-10
Arrival Time: ~~1338~~ 1326
Air Temp: 75°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1334	13.27	0.905	4.33	7.54	147.7	0.25	
1336	12.74	0.888	3.62	7.42	148.7	0.5	
1339	12.16	0.892	3.66	7.33	142.8	0.5	
1344	—					—	Samples Collected Very low Yield

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)
RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.38 **Time:** 1443 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 10-12-10
Arrival Time: 1440
Air Temp: 75°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1448	14.38	2.120	6.12	8.41	62.3	0.25	
1451	12.50	0.906	4.92	8.16	61.1	0.5	
1453	12.81	0.928	4.13	7.87	68.7	0.25	
1458	—	—	—	—	—	—	Samples
							Collected
							Very
							low
							Yield

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-3	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.61 **Time:** 1516 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 10-12-10
Arrival Time: 1510
Air Temp: 75°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1519	13.55	0.846	5.29	7.80	146.9	0.25	
1521	12.58	0.835	4.56	7.71	140.5	0.5	
1523	12.85	0.834	3.86	7.59	130.8	0.5	
							Samples
1528							Collected
							Very
							low
							Yidd

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.12 **Time:** 1251 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 10-12-10
Arrival Time: 1248
Air Temp: 75°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1256	13.65	0.967	4.68	7.54	184.3	0.25	
1259	12.85	0.963	4.46	7.33	180.2	0.5	
1301	12.60	0.964	4.60	7.29	176.5	0.5	
1303	12.50	0.965	4.73	7.27	173.5	0.5	
1305	12.35	0.959	4.99	7.26	171.4	0.5	
1307	12.84	0.963	5.04	7.28	162.5	0.5	
1312							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: **Interstitial Well**	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond — **Project No.:** AES 040605
Location: Llaves, Rio Arriba County, New Mexico — **Date:** 10-12-10
Project: Groundwater Monitoring and Sampling — **Arrival Time:** 1404
Sampling Technician: N. Willis — **Air Temp:** 75°F
Purge / No Purge: No Purge — **T.O.C. Elev. (ft):** TBS
Well Diameter (in): 2 — **Total Well Depth (ft):** 12.1
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.88 **Time:** 1406 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1408	19.37	176.1	0.42	6.67	-77.0	0.25	
1418							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, November 01, 2010

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm/Evap. Pond

Order No.: 1010656

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 10/14/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	1010656	**Collection Date:**	10/12/2010 1:44:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-01	**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	10/19/2010 7:17:34 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/19/2010 7:17:34 PM
Surr: DNOP	118	86.9-151		%REC	1	10/19/2010 7:17:34 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/19/2010 4:24:50 AM
Surr: BFB	95.3	84.5-118		%REC	1	10/19/2010 4:24:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/19/2010 4:24:50 AM
Toluene	ND	1.0		µg/L	1	10/19/2010 4:24:50 AM
Ethylbenzene	ND	1.0		µg/L	1	10/19/2010 4:24:50 AM
Xylenes, Total	ND	2.0		µg/L	1	10/19/2010 4:24:50 AM
Surr: 4-Bromofluorobenzene	104	81.3-151		%REC	1	10/19/2010 4:24:50 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	15	10		mg/L	20	10/20/2010 3:31:46 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	ND	0.0060		mg/L	1	10/21/2010 11:24:44 AM
Lead	0.0055	0.0050		mg/L	1	10/21/2010 11:24:44 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	643	20.0		mg/L	1	10/20/2010 6:38:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	1010656	**Collection Date:**	10/12/2010 2:58:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-02	**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	10/19/2010 8:25:51 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/19/2010 8:25:51 PM
Surr: DNOP	118	86.9-151		%REC	1	10/19/2010 8:25:51 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/19/2010 4:55:29 AM
Surr: BFB	92.7	84.6-118		%REC	1	10/19/2010 4:55:29 AM
EPA METHOD 8021B: VOLATILES						**Analyst: NSB**
Benzene	ND	1.0		µg/L	1	10/19/2010 4:55:29 AM
Toluene	ND	1.0		µg/L	1	10/19/2010 4:55:29 AM
Ethylbenzene	ND	1.0		µg/L	1	10/19/2010 4:55:29 AM
Xylenes, Total	ND	2.0		µg/L	1	10/19/2010 4:55:29 AM
Surr: 4-Bromofluorobenzene	103	81.3-151		%REC	1	10/19/2010 4:55:29 AM
EPA METHOD 300.0: ANIONS						**Analyst: SRM**
Chloride	37	10		mg/L	20	10/20/2010 3:49:10 AM
EPA 6010B: TOTAL RECOVERABLE METALS						**Analyst: SNV**
Chromium	ND	0.0060		mg/L	1	10/21/2010 11:40:35 AM
Lead	0.0078	0.0050		mg/L	1	10/21/2010 11:40:35 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						**Analyst: KS**
Total Dissolved Solids	615	100		mg/L	1	10/20/2010 6:38:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	1010656	**Collection Date:**	10/12/2010 3:28:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-03	**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	10/19/2010 8:59:59 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/19/2010 8:59:59 PM
Surr: DNOP	116	86.9-151		%REC	1	10/19/2010 8:59:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/19/2010 5:25:52 AM
Surr: BFB	96.0	84.5-118		%REC	1	10/19/2010 5:25:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/19/2010 5:25:52 AM
Toluene	ND	1.0		µg/L	1	10/19/2010 5:25:52 AM
Ethylbenzene	ND	1.0		µg/L	1	10/19/2010 5:25:52 AM
Xylenes, Total	ND	2.0		µg/L	1	10/19/2010 5:25:52 AM
Surr: 4-Bromofluorobenzene	110	81.3-151		%REC	1	10/19/2010 5:25:52 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	30	10		mg/L	20	10/20/2010 4:08:35 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	ND	0.0060		mg/L	1	10/21/2010 11:43:31 AM
Lead	0.0073	0.0050		mg/L	1	10/21/2010 11:43:31 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	567	20.0		mg/L	1	10/20/2010 6:38:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	1010656	**Collection Date:**	10/12/2010 1:12:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-04	**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	10/19/2010 9:34:13 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/19/2010 9:34:13 PM
Surr: DNOP	116	86.9-151		%REC	1	10/19/2010 9:34:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/19/2010 12:57:52 PM
Surr: BFB	91.6	84.5-118		%REC	1	10/19/2010 12:57:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/19/2010 12:57:52 PM
Toluene	ND	1.0		µg/L	1	10/19/2010 12:57:52 PM
Ethylbenzene	ND	1.0		µg/L	1	10/19/2010 12:57:52 PM
Xylenes, Total	ND	2.0		µg/L	1	10/19/2010 12:57:52 PM
Surr: 4-Bromofluorobenzene	105	81.3-151		%REC	1	10/19/2010 12:57:52 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	22	10		mg/L	20	10/20/2010 4:24:00 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	ND	0.0060		mg/L	1	10/21/2010 11:46:27 AM
Lead	0.0079	0.0050		mg/L	1	10/21/2010 11:46:27 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	865	100		mg/L	1	10/20/2010 6:38:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	1010656	**Collection Date:**	10/12/2010 2:18:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	10	3.0		mg/L	1	10/19/2010 10:08:09 PM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	10/19/2010 10:08:09 PM
Surr: DNOP	121	86.9-151		%REC	1	10/19/2010 10:08:09 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	10/19/2010 1:28:18 PM
Surr: BFB	99.9	84.5-118		%REC	10	10/19/2010 1:28:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	10		µg/L	10	10/19/2010 1:28:18 PM
Toluene	ND	10		µg/L	10	10/19/2010 1:28:18 PM
Ethylbenzene	ND	10		µg/L	10	10/19/2010 1:28:18 PM
Xylenes, Total	ND	20		µg/L	10	10/19/2010 1:28:18 PM
Surr: 4-Bromofluorobenzene	114	81.3-151		%REC	10	10/19/2010 1:28:18 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	120000	10000		mg/L	20000	10/27/2010 1:22:56 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	ND	0.30		mg/L	10	10/22/2010 12:36:18 PM
Lead	ND	0.25		mg/L	10	10/22/2010 12:36:18 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	184000	1000		mg/L	1	10/20/2010 6:38:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Trip blank
Lab Order:	1010656	**Collection Date:**	
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-06	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/19/2010 1:58:44 PM
Toluene	ND	1.0		µg/L	1	10/19/2010 1:58:44 PM
Ethylbenzene	ND	1.0		µg/L	1	10/19/2010 1:58:44 PM
Xylenes, Total	ND	2.0		µg/L	1	10/19/2010 1:58:44 PM
Surr: 4-Bromofluorobenzene	106	81.3-151		%REC	1	10/19/2010 1:58:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1
Lab Order:	1010656	**Collection Date:**	10/12/2010 12:23:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/19/2010 1:01:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/19/2010 1:01:26 PM
Surr: DNOP	95.2	61.7-135		%REC	1	10/19/2010 1:01:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	6.7	5.0		mg/Kg	1	10/19/2010 5:01:57 PM
Surr: BFB	113	93.1-120		%REC	1	10/19/2010 5:01:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	10/19/2010 5:01:57 PM
Benzene	ND	0.050		mg/Kg	1	10/19/2010 5:01:57 PM
Toluene	ND	0.050		mg/Kg	1	10/19/2010 5:01:57 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/19/2010 5:01:57 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/19/2010 5:01:57 PM
Surr: 4-Bromofluorobenzene	118	88.9-151		%REC	1	10/19/2010 5:01:57 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	30		mg/Kg	20	10/21/2010 8:22:35 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2
Lab Order:	*1010656*	**Collection Date:**	*10/12/2010 12:05:00 PM*
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	28	10		mg/Kg	1	10/19/2010 1:35:33 PM
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	10/19/2010 1:35:33 PM
Surr: DNOP	102	61.7-135		%REC	1	10/19/2010 1:35:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/19/2010 5:32:25 PM
Surr: BFB	107	93.1-120		%REC	1	10/19/2010 5:32:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	10/19/2010 5:32:25 PM
Benzene	ND	0.050		mg/Kg	1	10/19/2010 5:32:25 PM
Toluene	ND	0.050		mg/Kg	1	10/19/2010 5:32:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/19/2010 5:32:25 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/19/2010 5:32:25 PM
Surr: 4-Bromofluorobenzene	112	88.9-151		%REC	1	10/19/2010 5:32:25 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	30		mg/Kg	20	10/21/2010 8:40:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3
Lab Order:	1010656	**Collection Date:**	10/12/2010 11:45:00 AM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/19/2010 2:09:40 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/19/2010 2:09:40 PM
Surr: DNOP	98.1	61.7-135		%REC	1	10/19/2010 2:09:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/19/2010 6:02:51 PM
Surr: BFB	107	93.1-120		%REC	1	10/19/2010 6:02:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	10/19/2010 6:02:51 PM
Benzene	ND	0.050		mg/Kg	1	10/19/2010 6:02:51 PM
Toluene	ND	0.050		mg/Kg	1	10/19/2010 6:02:51 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/19/2010 6:02:51 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/19/2010 6:02:51 PM
Surr: 4-Bromofluorobenzene	116	88.9-151		%REC	1	10/19/2010 6:02:51 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	43	30		mg/Kg	20	10/21/2010 8:57:24 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Nov-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MEOH BLANK
Lab Order:	1010656	**Collection Date:**	
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	10/14/2010
Lab ID:	1010656-10	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/19/2010 11:38:01 PM
Surr: BFB	95.8	93.1-120		%REC	1	10/19/2010 11:38:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	10/19/2010 11:38:01 PM
Benzene	ND	0.050		mg/Kg	1	10/19/2010 11:38:01 PM
Toluene	ND	0.050		mg/Kg	1	10/19/2010 11:38:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/19/2010 11:38:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/19/2010 11:38:01 PM
Surr: 4-Bromofluorobenzene	109	88.9-151		%REC	1	10/19/2010 11:38:01 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1010656

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-24202		*MBLK*				Batch ID:	**24202**	Analysis Date:		10/21/2010 6:38:06 AM	
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-24202		*LCS*				Batch ID:	**24202**	Analysis Date:		10/21/2010 6:55:30 AM	
Chloride	14.41	mg/Kg	1.5	15	0	96.0	90	110			
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R41667**	Analysis Date:		10/19/2010 9:47:33 AM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R41667**	Analysis Date:		10/20/2010 4:41:25 AM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R41713**	Analysis Date:		10/21/2010 11:34:05 AM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R41745**	Analysis Date:		10/22/2010 1:18:03 PM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R41759**	Analysis Date:		10/25/2010 10:31:55 AM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R41787**	Analysis Date:		10/26/2010 2:56:12 PM	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R41667**	Analysis Date:		10/19/2010 10:04:58 AM	
Chloride	4.899	mg/L	0.50	5	0	98.0	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R41667**	Analysis Date:		10/20/2010 4:58:50 AM	
Chloride	4.819	mg/L	0.50	5	0	96.4	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R41713**	Analysis Date:		10/21/2010 11:51:29 AM	
Chloride	4.966	mg/L	0.50	5	0	99.3	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R41745**	Analysis Date:		10/22/2010 1:35:28 PM	
Chloride	4.932	mg/L	0.50	5	0	98.6	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R41759**	Analysis Date:		10/25/2010 10:49:20 AM	
Chloride	4.630	mg/L	0.50	5	0	92.6	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R41787**	Analysis Date:		10/26/2010 3:13:36 PM	
Chloride	4.952	mg/L	0.50	5	0	99.0	90	110			
Sample ID: LCSD		*LCSD*				Batch ID:	**R41667**	Analysis Date:		10/19/2010 10:22:22 AM	
Chloride	4.673	mg/L	0.50	5	0	93.5	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-24150		*MBLK*				Batch ID:	**24150**	Analysis Date:		10/19/2010 9:38:00 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-24150		*LCS*				Batch ID:	**24150**	Analysis Date:		10/19/2010 10:11:51 AM	
Diesel Range Organics (DRO)	46.11	mg/Kg	10	50	0	92.2	64.6	116			
Sample ID: LCSD-24150		*LCSD*				Batch ID:	**24150**	Analysis Date:		10/19/2010 10:45:42 AM	
Diesel Range Organics (DRO)	44.17	mg/Kg	10	50	0	88.3	64.6	116	4.30	17.4	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1010656

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-24168		*MBLK*				Batch ID:	**24168**	Analysis Date:		10/19/2010 5:00:19 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-24168		*LCS*				Batch ID:	**24168**	Analysis Date:		10/19/2010 5:34:41 PM	
Diesel Range Organics (DRO)	5.180	mg/L	1.0	5	0	104	74	157			
Sample ID: LCSD-24168		*LCSD*				Batch ID:	**24168**	Analysis Date:		10/19/2010 6:08:50 PM	
Diesel Range Organics (DRO)	5.353	mg/L	1.0	5	0	107	74	157	3.28	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1010656-08A MSD		*MSD*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 7:03:58 PM	
Gasoline Range Organics (GRO)	26.04	mg/Kg	5.0	25	4.012	88.1	69.2	144	1.28	20.5	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 9:23:18 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 11:25:42 AM	
Gasoline Range Organics (GRO)	27.88	mg/Kg	5.0	25	0	112	95.7	120			
Sample ID: 1010656-08A MS		*MS*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 6:33:22 PM	
Gasoline Range Organics (GRO)	25.71	mg/Kg	5.0	25	4.012	86.8	69.2	144			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1010656-04A MSD		*MSD*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 8:05:03 PM	
Gasoline Range Organics (GRO)	0.5300	mg/L	0.050	0.5	0	106	74.6	134	10.1	17	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R41614**	Analysis Date:		10/18/2010 9:37:01 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 9:23:18 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R41614**	Analysis Date:		10/18/2010 7:47:14 PM	
Gasoline Range Organics (GRO)	0.6188	mg/L	0.050	0.5	0	124	83.7	124			
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 11:25:42 AM	
Gasoline Range Organics (GRO)	0.5576	mg/L	0.050	0.5	0	112	83.7	124			
Sample ID: 1010656-04A MS		*MS*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 7:34:36 PM	
Gasoline Range Organics (GRO)	0.5866	mg/L	0.050	0.5	0	117	74.6	134			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1010656

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				**Batch ID: R41647**		**Analysis Date: 10/19/2010 9:23:18 AM**			
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: 100NG BTEX LCS		*LCS*				**Batch ID: R41647**		**Analysis Date: 10/19/2010 11:56:16 AM**			
Methyl tert-butyl ether (MTBE)	0.9725	mg/Kg	0.10	1	0	97.3	65.5	229			
Benzene	1.025	mg/Kg	0.050	1	0	102	83.3	107			
Toluene	1.017	mg/Kg	0.050	1	0	102	74.3	115			
Ethylbenzene	1.002	mg/Kg	0.050	1	0	100	80.9	122			
Xylenes, Total	3.076	mg/Kg	0.10	3	0	103	85.2	123			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1010656

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1010656-01A MSD		*MSD*				Batch ID:	**R41614**	Analysis Date:		10/18/2010 8:48:12 PM	
Benzene	21.10	µg/L	1.0	20	0.192	105	87.7	108	5.06	13.8	
Toluene	20.89	µg/L	1.0	20	0	104	84.2	115	4.81	17.1	
Ethylbenzene	20.78	µg/L	1.0	20	0.27	103	81.3	115	6.02	15.3	
Xylenes, Total	62.97	µg/L	2.0	60	0	105	83	118	4.15	13	
Sample ID: 1010656-04A MSD		*MSD*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 9:06:03 PM	
Methyl tert-butyl ether (MTBE)	21.66	µg/L	2.5	20	0	108	55.6	139	15.5	20.9	
Benzene	16.77	µg/L	1.0	20	0.136	83.2	87.7	108	11.2	13.8	S
Toluene	16.30	µg/L	1.0	20	0	81.5	84.2	115	13.9	17.1	S
Ethylbenzene	16.47	µg/L	1.0	20	0.228	81.2	81.3	115	9.21	15.3	S
Xylenes, Total	51.17	µg/L	2.0	60	0	85.3	83	118	7.65	13	
1,2,4-Trimethylbenzene	16.93	µg/L	1.0	20	0.18	83.7	77.1	114	3.51	6.57	
1,3,5-Trimethylbenzene	17.95	µg/L	1.0	20	0.146	89.0	88.4	115	3.69	7.92	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R41614**	Analysis Date:		10/18/2010 9:37:01 AM	
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: 5ML RB		*MBLK*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 9:23:18 AM	
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
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								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R41614**	Analysis Date:		10/18/2010 1:10:34 PM	
Benzene	19.57	µg/L	1.0	20	0.16	97.1	84.7	118			
Toluene	19.27	µg/L	1.0	20	0.196	95.4	82	123			
Ethylbenzene	19.30	µg/L	1.0	20	0.276	95.1	83	118			
Xylenes, Total	58.89	µg/L	2.0	60	0	98.2	85.4	119			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R41647**	Analysis Date:		10/19/2010 11:56:16 AM	
Methyl tert-butyl ether (MTBE)	19.45	µg/L	2.5	20	0	97.3	75.5	124			
Benzene	20.50	µg/L	1.0	20	0.112	102	84.7	118			
Toluene	20.33	µg/L	1.0	20	0	102	82	123			
Ethylbenzene	20.04	µg/L	1.0	20	0.164	99.4	83	118			
Xylenes, Total	61.52	µg/L	2.0	60	0	103	85.4	119			
1,2,4-Trimethylbenzene	20.05	µg/L	1.0	20	0	100	82.1	113			
1,3,5-Trimethylbenzene	21.01	µg/L	1.0	20	0.112	105	89.6	119			
Sample ID: 1010656-01A MS		*MS*				Batch ID:	**R41614**	Analysis Date:		10/18/2010 8:17:51 PM	
Benzene	20.06	µg/L	1.0	20	0.192	99.4	87.7	108			
Toluene	19.91	µg/L	1.0	20	0	99.5	84.2	115			
Ethylbenzene	19.57	µg/L	1.0	20	0.27	96.5	81.3	115			
Xylenes, Total	60.41	µg/L	2.0	60	0	101	83	118			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1010656

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1010656-04A MS		*MS*				Batch ID:	R41647	Analysis Date:	10/19/2010 8:35:34 PM		
Methyl tert-butyl ether (MTBE)	25.31	µg/L	2.5	20	0	127	55.6	139			
Benzene	18.76	µg/L	1.0	20	0.136	93.1	87.7	108			
Toluene	18.74	µg/L	1.0	20	0	93.7	84.2	115			
Ethylbenzene	18.06	µg/L	1.0	20	0.228	89.1	81.3	115			
Xylenes, Total	55.24	µg/L	2.0	60	0	92.1	83	118			
1,2,4-Trimethylbenzene	17.53	µg/L	1.0	20	0.18	86.8	77.1	114			
1,3,5-Trimethylbenzene	18.62	µg/L	1.0	20	0.146	92.4	88.4	115			
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-24164		*MBLK*				Batch ID:	24164	Analysis Date:	10/21/2010 10:55:48 AM		
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Sample ID: MB-24213		*MBLK*				Batch ID:	24213	Analysis Date:	10/22/2010 10:03:27 AM		
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Sample ID: LCS-24164		*LCS*				Batch ID:	24164	Analysis Date:	10/21/2010 10:58:38 AM		
Chromium	0.5128	mg/L	0.0060	0.5	0	103	80	120			
Lead	0.5090	mg/L	0.0050	0.5	0	102	80	120			
Sample ID: LCS-24164		*LCS*				Batch ID:	24164	Analysis Date:	10/21/2010 11:01:41 AM		
Chromium	0.5170	mg/L	0.0060	0.5	0	103	80	120	0.817	0	
Lead	0.5112	mg/L	0.0050	0.5	0	102	80	120	0.417	0	
Sample ID: LCS-24213		*LCS*				Batch ID:	24213	Analysis Date:	10/22/2010 10:06:23 AM		
Chromium	0.5054	mg/L	0.0060	0.5	0	101	80	120			
Lead	0.5098	mg/L	0.0050	0.5	0	102	80	120			
Sample ID: LCS-24213		*LCS*				Batch ID:	24213	Analysis Date:	10/22/2010 10:09:31 AM		
Chromium	0.5184	mg/L	0.0060	0.5	0	104	80	120			
Lead	0.5209	mg/L	0.0050	0.5	0	104	80	120			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-24149		*MBLK*				Batch ID:	24149	Analysis Date:	10/20/2010 6:38:00 AM		
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-24149		*LCS*				Batch ID:	24149	Analysis Date:	10/20/2010 6:38:00 AM		
Total Dissolved Solids	1008	mg/L	20.0	1000	7	100	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL — Date Received: 10/14/2010

Work Order Number 1010656 — Received by: LNM

Checklist completed by: [signature] Signature — 10/14/10 Date — Sample ID labels checked by: MG Initials

Matrix: — Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ✔	No	Not Present	
Custody seals intact on shipping container/cooler?	Yes ✔	No	Not Present	Not Shipped
Custody seals intact on sample bottles?	Yes	No	N/A ✔	
Chain of custody present?	Yes ✔	No		
Chain of custody signed when relinquished and received?	Yes ✔	No		
Chain of custody agrees with sample labels?	Yes ✔	No		
Samples in proper container/bottle?	Yes ✔	No		
Sample containers intact?	Yes ✔	No		
Sufficient sample volume for indicated test?	Yes ✔	No		
All samples received within holding time?	Yes ✔	No		
Water - VOA vials have zero headspace?	No VOA vials submitted	Yes ✔	No	
Water - Preservation labels on bottle and cap match?	Yes ✔	No	N/A	
Water - pH acceptable upon receipt?	Yes ✔	No	N/A	
Container/Temp Blank temperature?	4.0°	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 2 — <2 >12 *unless noted below.*

COMMENTS:

Client contacted — Date contacted: — Person contacted

Contacted by: — Regarding:

Comments: added 1 Ml HNO3 to bell #5D to get to ~~prop~~ acceptable pH level for proper analysis AG 10/15/10

Corrective Action

Chain-of-Custody Record

Client: Animas Environmental Services, LLC.

Mailing Address: 624 E. Comanche Farmington, New Mexico 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: BMG Landfarm/Evap. Pond

Project #: 040605

Project Manager: R. Kennemer

Sampler: N. Willis

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + [redacted] (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 (Chlorides)	SM 2540C (TDS)	6010 (Chromium & Lead)		Air Bubbles (Y or N)
10-12-10	1344	H2O	MW-1	6-40 mL glass 2-500mL plastic	5-HCl/1-unpres. 1-HNO3/1-non	1010656-1	X		X				X					X	X	X		
	1458		MW-2			-2	X		X				X					X	X	X		
	1528		MW-3			-3	X		X				X					X	X	X		
	1312		MW-4			-4	X		X				X					X	X	X		
	1418	H2O	Interstitial Well			-5	X		X				X					X	X	X		
		H2O	Trip Blank	2-40mL glass	HCl	-6	X															
	1223	Soil	Cell #1	MeOH kit 4 oz glass	MeOH/non non pres.	-7	X		X									X				
	1205		Cell #2			-8	X		X									X				
	1145		Cell #3			-9	X		X									X				
10-12-10		Soil	Meth. Bank	MeOH kit	MeOH	-10	X															

Remarks:

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/12/10	1700	Nate Willis		10/12/10	1700
10/13/10	1600			10/14/10	9:30

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

AES Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

August 13, 2010

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the July 2010 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On July 8, 2010, Animas Environmental Services, LLC (AES) completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner in late September 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on July 8, 2010. Groundwater samples were collected from monitor

wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0;
- Total Dissolved Solids (TDS) – SM 2540C;
- RCRA 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) – EPA 6010 and 7470 (annually).

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, and conductivity and ORP for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 11.95°C (MW-2) to 19.47°C (IW), and groundwater pH ranged from 6.84 (IW) to 7.41 (MW-3). Conductivity readings were between 0.642 mS (MW-1) to 148.9 mS (IW). Groundwater ORP ranged from -13.1 mV (IW) to 205.8 mV (MW-1). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the July 2010 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, below the New Mexico Water Quality Control Commission (WQCC) standards. All monitor wells had TPH concentrations below laboratory detection limits as well.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled and continue to remain relatively stable. The chloride and TDS concentrations in the interstitial well were reported at 150,000 mg/L and 190,000 mg/L, respectively. The chloride concentrations in the monitor wells ranged from 14 mg/L in MW-1 to 28 mg/L in MW-2 and MW-3. TDS concentrations ranged from 567 mg/L in MW-3 to 700 mg/L in MW-4.

Analytical results for RCRA 8 Metals showed that all wells sampled were below laboratory detection limits or below applicable standards for arsenic, cadmium, lead, mercury, selenium, and silver. The interstitial well had barium and cadmium concentrations above applicable WQCC standards. The results above laboratory detection limits have been summarized as follows:

- Chloride: IW (150,000 mg/L), MW-1 (14 mg/L), MW-2 (28 mg/L), MW-3 (28 mg/L), and MW-4 (21 mg/L);
- TDS: IW (190,000 mg/L), MW-1 (615 mg/L), MW-2 (595 mg/L), MW-3 (567 mg/L), and MW-4 (700 mg/L);
- Barium: IW (110 mg/L); and
- Cadmium: IW (0.075 mg/L)

The analytical results for the groundwater samples collected during the July 2010 sampling event are presented in Tables 2 and 3 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from 2 feet below ground surface in each of Cell #1, Cell #2, and Cell #3. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH (GRO, MRO, and DRO) per EPA Method 8015B;
- pH per SM4500-H+B (annually);
- Specific conductance (annually);
- Chlorides, fluorides, and sulfates per EPA Method 300.0 (annually);
- RCRA 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) per EPA Method 6010B and 7471 (annually).

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES's observations of the treatment cells at the time of sample collection, Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Treatment Cell #4 is not in use, and therefore was not sampled. Results are summarized as follows:

- BTEX and TPH concentrations were below laboratory detection limits in each cell;
- Chloride concentrations were reported below the laboratory detection limit of 15 mg/kg and therefore the applicable NMOCD standard (500 mg/kg) in each of the samples;
- Flouride, sodium, silver, arsenic, cadmium, mercury, and selenium concentrations were below laboratory detection limits in each cell;
- Sulfate concentrations varied from below laboratory detection limit of 15 mg/kg (Cell #1 and #3) to 73 mg/kg (Cell #2);
- Calcium concentrations ranged from 2,000 mg/kg (Cell #3) to 2,500 mg/kg (Cell #1);
- Magnesium concentrations ranged from 1,300 mg/kg (Cell #2) to 1,900 mg/kg (Cell #1);
- Potassium concentrations varied from 820 mg/kg (Cell #1) to 1,300 mg/kg (Cell #2);
- Barium concentrations ranged from 77 mg/kg (Cell #1) to 95 mg/kg (Cell #3);
- Chromium concentrations ranged from 5.6 mg/kg (Cell #2) to 7.3 mg/kg (Cell #1); and
- Lead concentrations ranged from 3.5 mg/kg (Cell #2) to 3.9 mg/kg (Cell #1);

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented on Figure 2. Laboratory analytical results are summarized in Table 4 through Table 7, and laboratory reports are presented in Appendix A.

3.0 Conclusions and Recommendations

Based on the results of the July 2010 sampling event at the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH. Groundwater samples from MW-1 through MW-4 were also

below applicable WQCC standards for arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.

Groundwater samples from the interstitial well had concentrations below laboratory detection limits for BTEX and TPH. Chloride concentration was reported at 150,000 mg/L. The interstitial well had concentrations reported above the WQCC standards for both barium (110 mg/L) and cadmium (0.075 mg/L).

Landfarm Cells #1 through #3 were also sampled in July 2010. Soil analytical results from treatment zone monitoring conducted within the landfarm were below laboratory detection limits for BTEX and TPH. Concentrations of chloride were below the laboratory detection limit of 15 mg/kg in each of the cells sampled. Concentrations of calcium, magnesium, potassium, barium, chromium, and lead were reported above laboratory detection limits in each treatment cell.

AES has scheduled the next quarterly treatment zone monitoring and sampling of evaporation pond monitoring wells to occur in October 2010. AES will continue sampling dissolved phase chromium and lead samples from MW-1 through MW-4 and the interstitial well. If you have any questions regarding the site conditions or sampling results, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

Deborah Watson
Project Manager

Elizabeth McNally, PE

Attachments:

Tables
Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Summary of Groundwater Metals Analytical Results
Table 4. Soil BTEX and TPH Concentrations
Table 5. Soil Chloride Concentrations
Table 6. Summary of Major Cations/Anions, Annual Treatment Zone Monitoring
Table 7. Soil of Metals Annual Treatment Zone Monitoring

Figures
Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
Figure 2. Treatment Zone Monitoring Locations

Appendices
Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

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TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
Interstitial Well	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (°C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		***10***	***750***	***750***	***620***	***NE***	***NE***	***NE***	***NE***	***NE***
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
Interstitial Well	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
Interstitial Well	16-Apr-10	NA	NA	NA	<0.12	<0.10	NA	NA	NA
Interstitial Well	8-Jul-10	<0.50	**110**	**0.075**	<0.15	<0.13	<0.00020	<1.3	<0.13
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW- 1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW- 1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW- 1	16-Apr-10	NA	NA	NA	0.012	0.0070	NA	NA	NA
MW- 1	8-Jul-10	<0.020	0.13	<0.0020	0.0084	<0.0050	<0.00020	<0.050	<0.0050
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-2	16-Apr-10	NA	NA	NA	<0.0060	<0.0050	NA	NA	NA
MW-2	8-Jul-10	<0.020	0.28	<0.0020	0.025	<0.0050	<0.00020	<0.050	<0.0050
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-3	16-Apr-10	NA	NA	NA	0.010	<0.0050	NA	NA	NA
MW-3	8-Jul-10	<0.020	0.28	<0.0020	0.028	0.0065	<0.00020	<0.050	<0.0050
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA
MW-4	16-Apr-10	NA	NA	NA	0.0079	<0.0050	NA	NA	NA
MW-4	8-Jul-10	<0.020	0.16	<0.0020	0.019	<0.0050	<0.00020	<0.050	<0.0050

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	-
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	-
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	-
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	-
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	-
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	-

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	-
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	-
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Chloride (mg/kg)
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #1	#1	11-Jan-10	2	22
Cell #1	#1	16-Apr-10	2	18
Cell #1	#1	8-Jul-10	2	<15
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #2	#2	11-Jan-10	2	16
Cell #2	#2	16-Apr-10	2	6.0
Cell #2	#2	8-Jul-10	2	<15
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4

TABLE 5

Soil Chloride Concentrations

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
		NMOCD Soil Standard		**500**
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28
Cell #3	#3	11-Jan-10	2	17
Cell #3	#3	16-Apr-10	2	20
Cell #3	#3	8-Jul-10	2	<15

Note: * = Concentrations reported are in mg/L

NA = Not Analyzed

TABLE 6
Summary of Major Cations/Anions
Annual Treatment Zone Monitoring
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

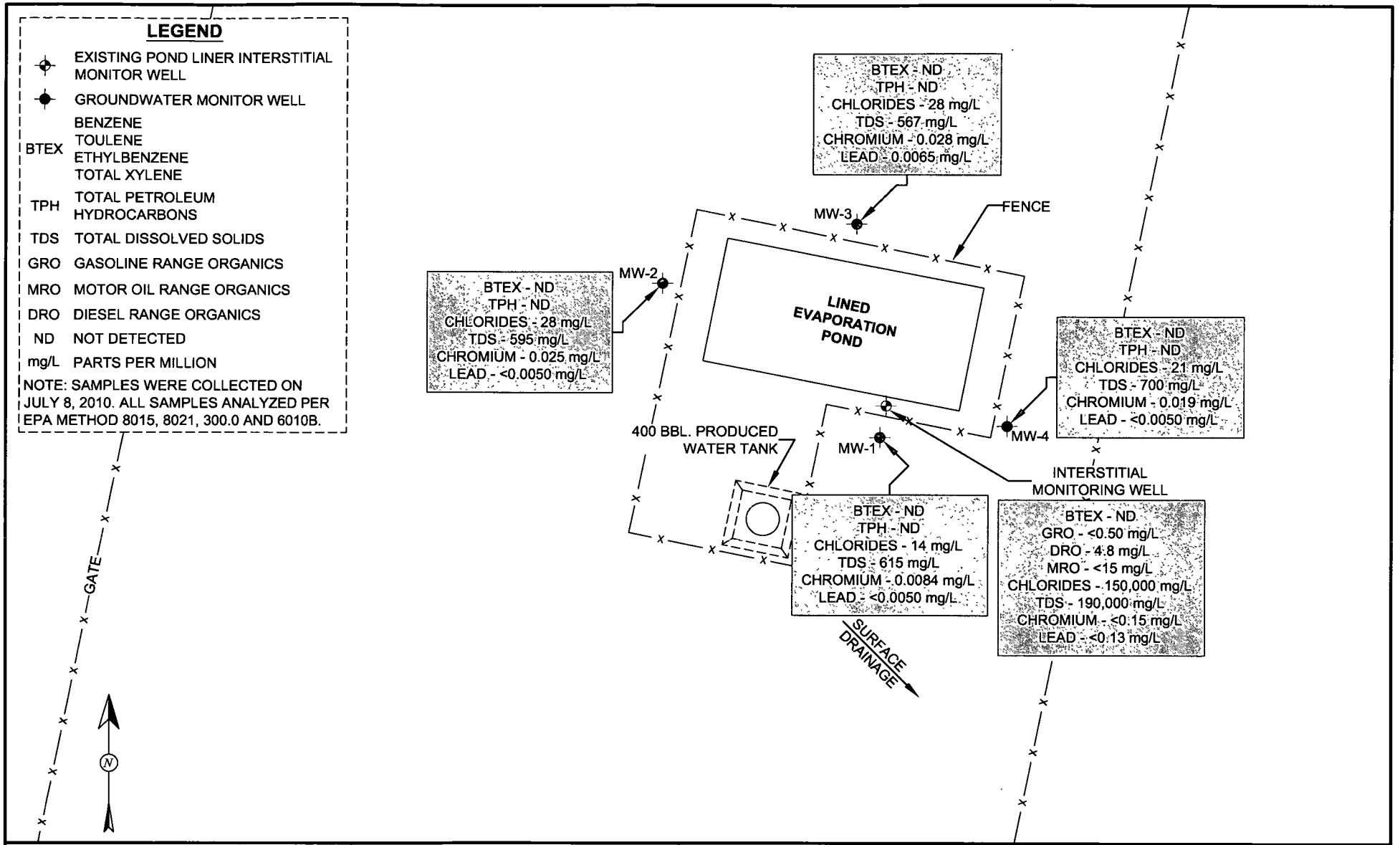
Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	pH	Spec. Cond. (umhos/cm)	Sulfate as SO_4 (mg/kg)	Flouride (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Potassium (mg/kg)
Cell #1	#1	6/7/2006	2.5	7.7	42.8	13.2	NA	2,780	1,340	<50	NA
Cell #1	#1	5/22/2007	3	7.37	NA	20.3*	4.26*	8,000	2,820	64	2,460
Cell #1	#1	7/21/2008	2	7.67	360	8.8*	<1.5*	NA	NA	NA	NA
Cell #1	#1	9/11/2009	2	7.65	370	23	<1.5	3,000	1,300	<25	860
Cell #1	#1	7/8/2010	2	8.43	380	<15	<3.0	2,500	1,900	<130	1,300
Cell #2	#2	6/7/2006	2.5	7.7	64.1	9.31	NA	1,950	979	<50	NA
Cell #2	#2	5/22/2007	3	7.59	NA	19.9*	4.94*	6,690	2,230	64	1,650
Cell #2	#2	7/21/2008	2	7.97	650	130*	2.4*	NA	NA	NA	NA
Cell #2	#2	9/11/2009	2	7.67	150	26	<1.5	940	710	<25	470
Cell #2	#2	7/8/2010	2	8.37	330	73	<3.0	2,200	1,300	<130	820
Cell #3	#3	6/7/2006	2.5	9.1	54.2	23.5	2.92	2,140	1,110	<50	NA
Cell #3	#3	5/22/2007	3	7.30	NA	45.2*	5.01*	5,570	2,660	70	2,620
Cell #3	#3	7/21/2008	2	7.53	1,200	2,200*	<1.5*	NA	NA	NA	NA
Cell #3	#3	9/11/2009	2	7.32	870	140	<1.5	3,000	2,400	76	2400
Cell #3	#3	7/8/2010	2	8.29	330	<15	<3.0	2,000	1,400	<130	1,000

Note: * = Concentrations reported are in mg/kg
NA = Not Analyzed

TABLE 7
Summary of Metals
Annual Treatment Zone Monitoring
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Silver (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)
Cell #1	#1	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #1	#1	5/22/2007	3	<0.50	5.4	169	0.26	33.9	<0.033	11.90	<4.0
Cell #1	#1	7/21/2008	2	<1.2	<12	81	<0.50	7.4	<0.033	5.2	<12
Cell #1	#1	9/11/2009	2	<0.50	2.0	50	0.27	5.9	<0.020	3.5	<1.0
Cell #1	#1	7/8/2010	2	<1.3	<13	77	<0.50	7.3	<0.033	3.9	<13
Cell #2	#2	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #2	#2	5/22/2007	3	<0.50	5.3	171	0.34	54.5	<0.033	10.60	<4.0
Cell #2	#2	7/21/2008	2	<1.2	<12	92	<0.50	9.2	<0.033	7.3	<12
Cell #2	#2	9/11/2009	2	<0.50	1.9	48	<0.25	3.8	<0.020	2.8	<1.0
Cell #2	#2	7/8/2010	2	<1.3	<13	95	<0.50	5.6	<0.033	3.5	<13
Cell #3	#3	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #3	#3	5/22/2007	3	<0.50	4.9	181	0.37	36.9	<0.033	13.90	<4.0
Cell #3	#3	7/21/2008	2	<1.2	<12	77	<0.50	7.2	0.033	11	<12
Cell #3	#3	9/11/2009	2	<0.50	2.6	120	0.48	14	<0.020	6.9	<1.0
Cell #3	#3	7/8/2010	2	<1.3	<13	91	<0.50	6.2	<0.033	3.7	<13

Note: * = Concentrations reported are in mg/kg
NA = Not Analyzed



Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 28, 2010
REVISIONS BY: N. Willis	**DATE REVISED:** July 26, 2010
CHECKED BY: D. Watson	**DATE CHECKED:** July 26, 2010
APPROVED BY: E. McNally	**DATE APPROVED:** August 13, 2010

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, JULY 2010

NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

S:\ANIMAS 2000\2010 PROJECTS\BMG\LANDFARM\MAPS AND DRAWINGS\SEPTEMBER 2010 QMR DRAWINGS\FIGURE 1 EVAPORATION POND AND MONITOR WELL LOCATIONS

FIGURE 2

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY MONITORING LOCATIONS JULY 2010

NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

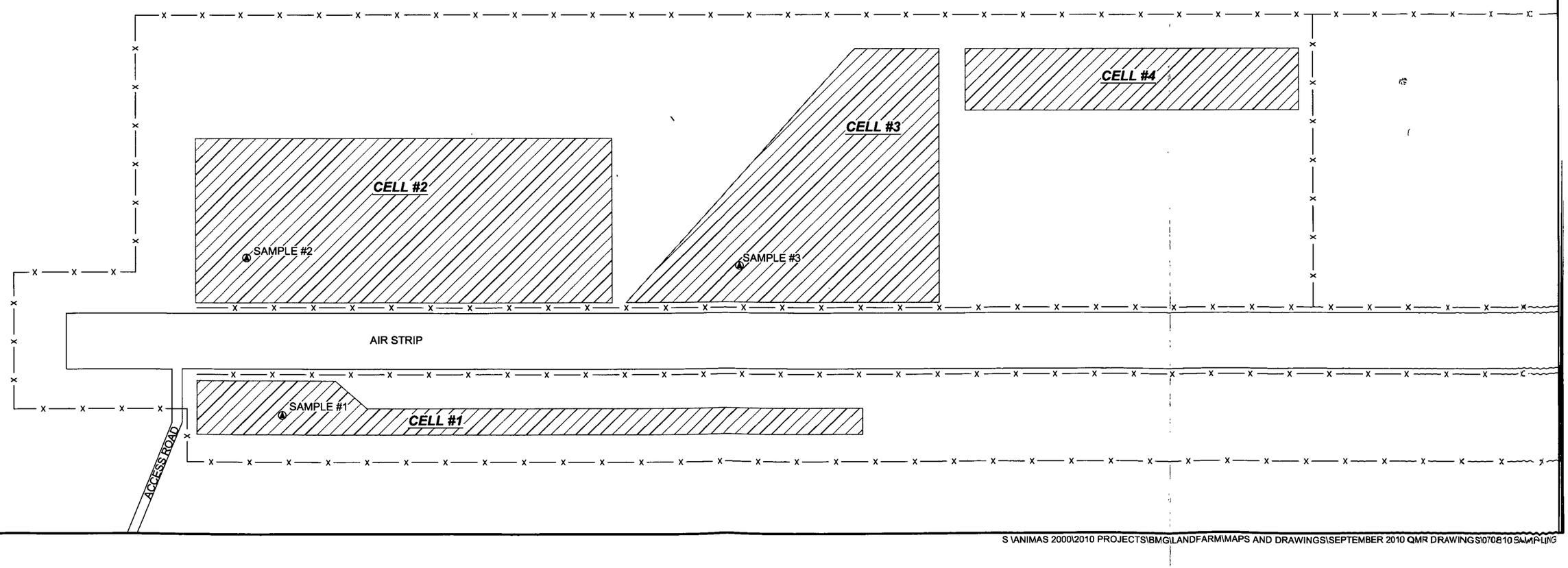
Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** May 29, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** August 2, 2010
CHECKED BY: D. Watson	**DATE CHECKED:** August 2, 2010
APPROVED BY: E. McNally	**DATE APPROVED:** August 13, 2010

SUMMARY OF QUARTERLY TREATMENT ZONE MONITORING JULY 2010

LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	#1	N 36°23.379' W 106°52.064'	07/08/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
CELL #2	#2	N 36°23.404' W 106°52.012'	07/08/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
CELL #3	#3	N 36°23.354' W 106°51.908'	07/08/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
CELL #4		NOT IN USE, NO SAMPLE										

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)



S:\ANIMAS 2000\2010 PROJECTS\BMG\LANDFARM\MAPS AND DRAWINGS\SEPTEMBER 2010 QMR DRAWINGS\070810 SAMPLING

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. Willis

Project No.: AES 040605
Date: 7-8-10
Time: 1030
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1045	—	39.22	—	
MW-2	1352	—	40.28	—	
MW-3	1424	—	39.51	—	
MW-4	1315	—	40.01	—	
Interstitial	1245	—	9.70	—	

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.22 **Time:** 1045 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-8-10
Arrival Time: 1030
Air Temp: 68°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1126	16.83	0.628	3.67	7.67	98.7	0.5	
1130	14.81	0.609	4.13	7.33	133.6	0.5	
1133	14.94	0.552	4.25	7.33	147.4	0.5	
1136	15.20	0.653	4.35	7.21	188.5	0.5	
1142	15.15	0.655	4.33	7.21	191.0	0.5	
1147	15.25	0.642	4.16	7.23	205.8	0.5	
1152	—					—	Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO_3 preserve)

Disposal of Purged Water: Concrete
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and ~~New Disposable Bailer~~ ~~peristaltic Pump~~ New Disposable Bailer

Notes/Comments: Was unable to use peristaltic pump due to depth of groundwater. Pump was unable to pull water to surface. Disposable bailer was used.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.28 **Time:** 1352 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-8-10
Arrival Time: 1350
Air Temp: 80°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1355	14.77	0.839	5.49	7.26	134.4	0.25	
1358	12.24	0.727	4.76	7.45	145.2	0.5	
1401	11.95	0.729	4.73	7.38	152.0	0.5	
1406	—	—	—	—	—	—	Samples Collected from Low Yield

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)
RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO_3 preserve)

Disposal of Purged Water: Concrette
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Was unable to use peristaltic pump due to depth of groundwater. Pump was unable to pull water to surface. Disposable Bailer was used.

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-3	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): ____ Time: ____ (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 39.51 Time: 1424 (taken prior to purging well)
Final D.T.W. (ft): ____ Time: ____ (taken after sample collection)
If NAPL Present: D.T.P.: ____ D.T.W.: ____ Thickness: ____ Time: ____

Project No.: AES 040605
Date: 7-8-10
Arrival Time: 1420
Air Temp: 80°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1425	13.37	0.800	9.12	7.84	137.4	0.25	
1428	12.88	0.699	7.42	7.55	147.6	0.5	
1431	12.80	0.693	6.55	7.42	154.7	0.5	
1434	12.59	0.698	6.23	7.39	159.6	0.5	
1437	12.57	0.696	6.71	7.39	163.0	0.5	
1440	12.09	0.699	7.53	7.41	164.1	0.5	
1443	12.48	0.695	7.18	7.41	168.5	0.5	
1448							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)
RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: Concrette
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Was unable to use parastaltic pump due to depth of groundwater. Pump was unable to pull water to the surface. Disposable Bailer was used.

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.01 **Time:** 1315 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-8-10
Arrival Time: 1312
Air Temp: 80°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1318	14.67	1.538	8.16	7.65	97.1	0.25	
1321	13.01	0.846	7.69	7.39	112.4	0.5	
1324	12.79	0.810	7.57	7.22	129.3	0.5	
1327	12.93	0.805	7.36	7.18	139.7	0.5	
1330	12.88	0.806	7.60	7.17	145.5	0.5	
1333	12.77	0.807	7.53	7.17	149.1	0.5	
1338	—	—	—	—	—	—	Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: Concrette
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Was unable to use peristaltic pump due to depth of groundwater. Pump was unable to pull water to the surface. Disposable Bailer was used.

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: **Interstitial Well**	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond — **Project No.:** AES 040605
Location: Llaves, Rio Arriba County, New Mexico — **Date:** 7-8-10
Project: Groundwater Monitoring and Sampling — **Arrival Time:** 1235
Sampling Technician: N. Willis — **Air Temp:** 80°F
Purge / No Purge: Purge — **T.O.C. Elev. (ft):** TBS
Well Diameter (in): 2 — **Total Well Depth (ft):** 12.1
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.70 **Time:** 1245 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1247	19.47	1488.9	2.92	6.84	-13.1	0.25	
1252							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals / Lead (6010/7410 Hg) (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: Concrete
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Was unable to use peristaltic pump due to depth of groundwater. Pump was unable to pull water to the surface. Disposable Bailer was used.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, August 02, 2010

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm/Evap. Pond

Order No.: 1007456

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 7/13/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

For Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Aug-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell 1
Lab Order:	1007456	**Collection Date:**	7/8/2010 3:05:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007456-01	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/15/2010 1:31:48 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2010 1:31:48 PM
Surr: DNOP	101	61.7-135		%REC	1	7/15/2010 1:31:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/20/2010 10:34:56 PM
Surr: BFB	98.1	55.2-107		%REC	1	7/20/2010 10:34:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	7/20/2010 10:34:56 PM
Toluene	ND	0.050		mg/Kg	1	7/20/2010 10:34:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/20/2010 10:34:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/20/2010 10:34:56 PM
Surr: 4-Bromofluorobenzene	107	64.7-120		%REC	1	7/20/2010 10:34:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	ND	3.0		mg/Kg	10	7/24/2010 8:03:36 AM
Chloride	ND	15		mg/Kg	10	7/23/2010 1:48:11 AM
Nitrogen, Nitrite (As N)	ND	3.0		mg/Kg	10	7/23/2010 1:48:11 AM
Nitrogen, Nitrate (As N)	8.7	3.0		mg/Kg	10	7/23/2010 1:48:11 AM
Sulfate	ND	15		mg/Kg	10	7/23/2010 1:48:11 AM
EPA METHOD 7471: MERCURY						Analyst: **SNV**
Mercury	ND	0.033		mg/Kg	1	7/18/2010 4:40:30 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **SNV**
Arsenic	ND	13		mg/Kg	5	7/21/2010 10:12:38 AM
Barium	77	0.50		mg/Kg	5	7/21/2010 10:12:38 AM
Cadmium	ND	0.50		mg/Kg	5	7/21/2010 10:12:38 AM
Calcium	2500	130		mg/Kg	5	7/21/2010 10:12:38 AM
Chromium	7.3	1.5		mg/Kg	5	7/21/2010 10:12:38 AM
Lead	3.9	1.3		mg/Kg	5	7/21/2010 10:12:38 AM
Magnesium	1900	130		mg/Kg	5	7/21/2010 10:12:38 AM
Potassium	1300	250		mg/Kg	5	7/21/2010 10:12:38 AM
Selenium	ND	13		mg/Kg	5	7/21/2010 10:12:38 AM
Silver	ND	1.3		mg/Kg	5	7/21/2010 10:12:38 AM
Sodium	ND	130		mg/Kg	5	7/21/2010 10:12:38 AM
CONDUCTANCE						Analyst: **TAF**
Specific Conductance	380	1.0		µmhos/cm	1	7/22/2010 7:30:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Aug-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell I
Lab Order:	1007456	**Collection Date:**	7/8/2010 3:05:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007456-01	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						Analyst: KS
pH	8.43	0.1		pH Units	1	7/16/2010 7:41:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Aug-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell 2
Lab Order:	1007456	**Collection Date:**	7/8/2010 3:37:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007456-02	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/15/2010 2:40:16 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2010 2:40:16 PM
Surr: DNOP	99.8	61.7-135		%REC	1	7/15/2010 2:40:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/19/2010 4:58:36 PM
Surr. BFB	110	55.2-107	S	%REC	1	7/19/2010 4:58:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	7/19/2010 4:40:14 PM
Benzene	ND	0.050		mg/Kg	1	7/19/2010 4:40:14 PM
Toluene	ND	0.050		mg/Kg	1	7/19/2010 4:40:14 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/19/2010 4:40:14 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/19/2010 4:40:14 PM
Surr: 4-Bromofluorobenzene	122	64.7-120	S	%REC	1	7/19/2010 4:40:14 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	ND	3.0		mg/Kg	10	7/24/2010 8:21:01 AM
Chloride	ND	15		mg/Kg	10	7/23/2010 2:05:36 AM
Nitrogen, Nitrite (As N)	ND	3.0		mg/Kg	10	7/23/2010 2:05:36 AM
Nitrogen, Nitrate (As N)	ND	3.0		mg/Kg	10	7/23/2010 2:05:36 AM
Sulfate	73	15		mg/Kg	10	7/23/2010 2:05:36 AM
EPA METHOD 7471: MERCURY						Analyst: **SNV**
Mercury	ND	0.033		mg/Kg	1	7/18/2010 4:47:43 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **SNV**
Arsenic	ND	13		mg/Kg	5	7/21/2010 10:17:46 AM
Barium	95	0.50		mg/Kg	5	7/21/2010 10:17:46 AM
Cadmium	ND	0.50		mg/Kg	5	7/21/2010 10:17:46 AM
Calcium	2200	130		mg/Kg	5	7/21/2010 10:17:46 AM
Chromium	5.6	1.5		mg/Kg	5	7/21/2010 10:17:46 AM
Lead	3.5	1.3		mg/Kg	5	7/21/2010 10:17:46 AM
Magnesium	1300	130		mg/Kg	5	7/21/2010 10:17:46 AM
Potassium	820	250		mg/Kg	5	7/21/2010 10:17:46 AM
Selenium	ND	13		mg/Kg	5	7/21/2010 10:17:46 AM
Silver	ND	1.3		mg/Kg	5	7/21/2010 10:17:46 AM
Sodium	ND	130		mg/Kg	5	7/21/2010 10:17:46 AM
CONDUCTANCE						Analyst: **TAF**
Specific Conductance	330	1.0		µmhos/cm	1	7/22/2010 7:30:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Aug-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell 2
Lab Order:	1007456	**Collection Date:**	7/8/2010 3:37:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007456-02	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTANCE						Analyst: TAF
SM4500-H+B: PH						Analyst: **KS**
pH	8.37	0.1		pH Units	1	7/16/2010 7:41:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Aug-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell 3
Lab Order:	1007456	**Collection Date:**	7/8/2010 3:24:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007456-03	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/15/2010 3:14:39 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2010 3:14:39 PM
Surr: DNOP	101	61.7-135		%REC	1	7/15/2010 3:14:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/17/2010 2:23:36 AM
Surr: BFB	108	55.2-107	S	%REC	1	7/17/2010 2:23:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	7/19/2010 5:10:29 PM
Toluene	ND	0.050		mg/Kg	1	7/19/2010 5:10:29 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/19/2010 5:10:29 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/19/2010 5:10:29 PM
Surr: 4-Bromofluorobenzene	116	64.7-120		%REC	1	7/19/2010 5 10:29 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	ND	3.0		mg/Kg	10	7/24/2010 8:38:25 AM
Chloride	ND	15		mg/Kg	10	7/23/2010 2:23:01 AM
Nitrogen, Nitrite (As N)	ND	3.0		mg/Kg	10	7/23/2010 2:23:01 AM
Nitrogen, Nitrate (As N)	9.8	3.0		mg/Kg	10	7/23/2010 2:23:01 AM
Sulfate	ND	15		mg/Kg	10	7/23/2010 2:23:01 AM
EPA METHOD 7471: MERCURY						Analyst: **SNV**
Mercury	ND	0.033		mg/Kg	1	7/18/2010 4:53:13 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **SNV**
Arsenic	ND	13		mg/Kg	5	7/21/2010 10:36:13 AM
Barium	91	0.50		mg/Kg	5	7/21/2010 10:36:13 AM
Cadmium	ND	0.50		mg/Kg	5	7/21/2010 10:36:13 AM
Calcium	2000	130		mg/Kg	5	7/21/2010 10:36:13 AM
Chromium	6.2	1.5		mg/Kg	5	7/21/2010 10:36:13 AM
Lead	3.7	1.3		mg/Kg	5	7/21/2010 10:36:13 AM
Magnesium	1400	130		mg/Kg	5	7/21/2010 10:36:13 AM
Potassium	1000	250		mg/Kg	5	7/21/2010 10:36:13 AM
Selenium	ND	13		mg/Kg	5	7/21/2010 10:36:13 AM
Silver	ND	1.3		mg/Kg	5	7/21/2010 10:36:13 AM
Sodium	ND	130		mg/Kg	5	7/21/2010 10:36:13 AM
CONDUCTANCE						Analyst: **TAF**
Specific Conductance	330	10		µmhos/cm	1	7/22/2010 7 30:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Aug-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell 3
Lab Order:	1007456	**Collection Date:**	7/8/2010 3:24:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007456-03	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						Analyst: **KS**
pH	8.29	0.1		pH Units	1	7/16/2010 7:41:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Aug-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Meoh Blank
Lab Order:	1007456	**Collection Date:**	
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007456-04	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/17/2010 3:54:15 AM
Surr: BFB	113	55.2-107	S	%REC	1	7/17/2010 3:54:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	7/20/2010 6:32:05 PM
Benzene	ND	0.050		mg/Kg	1	7/20/2010 6:32:05 PM
Toluene	ND	0.050		mg/Kg	1	7/20/2010 6:32:05 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/20/2010 6:32:05 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/20/2010 6:32:05 PM
Surr: 4-Bromofluorobenzene	98.5	64.7-120		%REC	1	7/20/2010 6:32:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1007456

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-23069		*MBLK*				Batch ID:	**23069**	Analysis Date:	7/23/2010 12:03:44 AM		
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrite (As N)	ND	mg/Kg	0.30								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: MB-23069		*MBLK*				Batch ID:	**23069**	Analysis Date:	7/24/2010 7:28:46 AM		
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrite (As N)	ND	mg/Kg	0.30								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-23069		*LCS*				Batch ID:	**23069**	Analysis Date:	7/23/2010 12:21:09 AM		
Chloride	14.43	mg/Kg	1.5	15	0.5235	92.7	90	110			
Nitrogen, Nitrite (As N)	2.924	mg/Kg	0.30	3	0	97.5	90	110			
Nitrogen, Nitrate (As N)	7.129	mg/Kg	0.30	7.5	0	95.1	90	110			
Sulfate	28.99	mg/Kg	1.5	30	0	96.6	90	110			
Sample ID: LCS-23069		*LCS*				Batch ID:	**23069**	Analysis Date:	7/24/2010 7:46:11 AM		
Fluoride	1.440	mg/Kg	0.30	1.5	0	96.0	90	110			
Chloride	13.97	mg/Kg	1.5	15	0.438	90.2	90	110			
Nitrogen, Nitrite (As N)	2.772	mg/Kg	0.30	3	0	92.4	90	110			
Nitrogen, Nitrate (As N)	6.885	mg/Kg	0.30	7.5	0	91.8	90	110			
Sulfate	27.89	mg/Kg	1.5	30	0	93.0	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-23022		*MBLK*				Batch ID:	**23022**	Analysis Date:	7/15/2010 9:00:16 AM		
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-23022		*LCS*				Batch ID:	**23022**	Analysis Date:	7/15/2010 9:34:09 AM		
Diesel Range Organics (DRO)	45.98	mg/Kg	10	50	0	92.0	64.6	116			
Sample ID: LCSD-23022		*LCSD*				Batch ID:	**23022**	Analysis Date:	7/15/2010 10:08:00 AM		
Diesel Range Organics (DRO)	45.24	mg/Kg	10	50	0	90.5	64.6	116	1.63	17.4	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R39881**	Analysis Date:	7/16/2010 1:14:24 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: MB-23047		*MBLK*				Batch ID:	**23047**	Analysis Date:	7/19/2010 10:45:23 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R39881**	Analysis Date:	7/16/2010 12:13:52 PM		
Gasoline Range Organics (GRO)	27.28	mg/Kg	5.0	25	0	109	77.8	124			
Sample ID: LCS-23047		*LCS*				Batch ID:	**23047**	Analysis Date:	7/19/2010 10:16:33 PM		
Gasoline Range Organics (GRO)	29.13	mg/Kg	5.0	25	0	117	77.8	124			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1007456

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-23047		*MBLK*				Batch ID:	**23047**	Analysis Date:		7/19/2010 7:42:06 PM	
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-23047		*LCS*				Batch ID:	**23047**	Analysis Date:		7/19/2010 7:11:42 PM	
Methyl tert-butyl ether (MTBE)	1.655	mg/Kg	0.10	1	0	166	67.9	135			S
Benzene	0.9763	mg/Kg	0.050	1	0	97.6	78.8	132			
Toluene	1.019	mg/Kg	0.050	1	0.0126	101	78.9	112			
Ethylbenzene	1.082	mg/Kg	0.050	1	0.0116	107	69.3	125			
Xylenes, Total	3.312	mg/Kg	0.10	3	0	110	73	128			
Method: EPA Method 7471: Mercury											
Sample ID: 1007456-01BMSD		*MSD*				Batch ID:	**23051**	Analysis Date:		7/18/2010 4:45:55 PM	
Mercury	0.1641	mg/Kg	0.033	0.167	0.0040	96.1	75	125	1.18	20	
Sample ID: MB-23051		*MBLK*				Batch ID:	**23051**	Analysis Date:		7/18/2010 4:29:05 PM	
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-23051		*LCS*				Batch ID:	**23051**	Analysis Date:		7/18/2010 4:30:49 PM	
Mercury	0.1679	mg/Kg	0.033	0.167	0	101	80	120			
Sample ID: 1007456-01BMS		*MS*				Batch ID:	**23051**	Analysis Date:		7/18/2010 4:44:07 PM	
Mercury	0.1660	mg/Kg	0.033	0.166	0.0040	97.4	75	125			

Qualifiers:

- 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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1007456

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID: 1007456-03BMSD		*MSD*				Batch ID:	**23063**	Analysis Date:		7/21/2010 10:43:01 AM	
Arsenic	34 13	mg/Kg	13	24.88	4.231	120	75	125	11.7	20	
Barium	114.6	mg/Kg	0.50	24.88	91.24	94.1	75	125	1.00	20	
Cadmium	25.72	mg/Kg	0.50	24.88	0	103	75	125	0.865	20	
Calcium	4518	mg/Kg	130	2488	1951	103	75	125	0.0855	20	
Chromium	32.16	mg/Kg	1.5	24.88	6.193	104	75	125	0.348	20	
Lead	30.52	mg/Kg	1.3	24.88	3.709	108	75	125	5.91	20	
Magnesium	4070	mg/Kg	130	2488	1404	107	75	125	0.307	20	
Potassium	3566	mg/Kg	250	2488	997.2	103	75	125	0.547	20	
Selenium	24.04	mg/Kg	13	24.88	0	96.6	75	125	6.52	20	
Silver	24.69	mg/Kg	1.3	24.88	0	99.3	75	125	1.12	20	
Sodium	2684	mg/Kg	130	2488	26.75	107	75	125	0.337	20	
Sample ID: MB-23063		*MBLK*				Batch ID:	**23063**	Analysis Date:		7/21/2010 9:52:28 AM	
Arsenic	ND	mg/Kg	2 5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Calcium	ND	mg/Kg	25								
Chromium	ND	mg/Kg	0.30								
Lead	ND	mg/Kg	0.25								
Magnesium	ND	mg/Kg	25								
Potassium	ND	mg/Kg	50								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Sodium	ND	mg/Kg	25								
Sample ID: LCS-23063		*LCS*				Batch ID:	**23063**	Analysis Date:		7/21/2010 9:55:18 AM	
Arsenic	25.30	mg/Kg	2.5	25	0	101	80	120			
Barium	24.27	mg/Kg	0.10	25	0	97.1	80	120			
Cadmium	24.40	mg/Kg	0.10	25	0	97.6	80	120			
Calcium	2565	mg/Kg	25	2500	4.06	102	80	120			
Chromium	24.84	mg/Kg	0.30	25	0	99.4	80	120			
Lead	23.98	mg/Kg	0.25	25	0	95.9	80	120			
Magnesium	2627	mg/Kg	25	2500	0	105	80	120			
Potassium	2725	mg/Kg	50	2500	22.25	108	80	120			
Selenium	24.20	mg/Kg	2.5	25	0.4989	94.8	80	120			
Silver	24 69	mg/Kg	0.25	25	0.0219	98.7	80	120			
Sodium	2836	mg/Kg	25	2500	0	113	80	120			
Sample ID: 1007456-03BMS		*MS*				Batch ID:	**23063**	Analysis Date:		7/21/2010 10:38:49 AM	
Arsenic	30.37	mg/Kg	13	24.93	4.231	105	75	125			
Barium	113.5	mg/Kg	0.50	24.93	91.24	89.3	75	125			
Cadmium	25.50	mg/Kg	0.50	24.93	0	102	75	125			
Calcium	4522	mg/Kg	130	2493	1951	103	75	125			
Chromium	32.05	mg/Kg	1 5	24.93	6.193	104	75	125			
Lead	28.77	mg/Kg	1.3	24.93	3.709	100	75	125			
Magnesium	4058	mg/Kg	130	2493	1404	106	75	125			
Potassium	3547	mg/Kg	250	2493	997.2	102	75	125			

Qualifiers:

- 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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1007456

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID: 1007456-03BMS		*MS*				Batch ID:	**23063**	Analysis Date:		**7/21/2010 10:38:49 AM**	
Selenium	25.66	mg/Kg	13	24.93	0	103	75	125			
Silver	24.42	mg/Kg	1.3	24.93	0	97.9	75	125			
Sodium	2675	mg/Kg	130	2493	26.75	106	75	125			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **ANIMAS ENVIRONMENTAL** Date Received: **7/13/2010**

Work Order Number **1007456** Received by: **ARS**

Checklist completed by: Signature 7/13/10 Date Sample ID labels checked by: Initials

Matrix: Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**1.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
BMG Landfarm / Evap. Pond

Project #:
040605

Project Manager:
R. Kennemer

Sampler: N. Willis

On Ice: ☒ Yes ☐ No

Sample Temperature: 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1007155	Analysis Request: BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8015 TPH (C_6-C_{36})	Cations/Anions, pH, spec. cond.	SO_4, Fl, Ca, Cl	As, Ba, Cd, Cr, Hg, Pb	Air Bubbles (Y or N) Se, Ag
7-8-10	1505	Soil	Cell 1	8-40z jar MeOH Kit	# MeOH	1	X											X	X	X	X	
"	1537	"	Cell 2	"	"	2	X											X	X	X	X	
"	1524	"	Cell 3	"	"	3	X											X	X	X	X	
			Trip Blank	MeOH Kit	MeOH	4	X															

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/12/10	1645				
Date:	Time:	Relinquished by:	Received by:	Date	Time
				7/13/10	15:15

Remarks:

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, July 22, 2010

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm/Evap. Pond

Order No.: 1007436

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 7/13/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

for Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	1007436	**Collection Date:**	7/8/2010 11:52:00 AM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007436-01	**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	7/14/2010 9:42:19 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/14/2010 9:42:19 AM
Surr: DNOP	114	86.9-151		%REC	1	7/14/2010 9:42:19 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **BDH**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/15/2010 4:21:40 PM
Surr: BFB	100	65.7-118		%REC	1	7/15/2010 4:21:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: **BDH**
Benzene	ND	1.0		µg/L	1	7/15/2010 4:21:40 PM
Toluene	ND	1.0		µg/L	1	7/15/2010 4:21:40 PM
Ethylbenzene	ND	1.0		µg/L	1	7/15/2010 4:21:40 PM
Xylenes, Total	ND	2.0		µg/L	1	7/15/2010 4:21:40 PM
Surr: 4-Bromofluorobenzene	104	65.9-130		%REC	1	7/15/2010 4:21:40 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	14	0.50		mg/L	1	7/18/2010 7:41:33 PM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	7/15/2010 3:06:42 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	7/16/2010 12:55:24 PM
Barium	0.13	0.020		mg/L	1	7/16/2010 12:55:24 PM
Cadmium	ND	0.0020		mg/L	1	7/16/2010 12:55:24 PM
Chromium	0.0084	0.0060		mg/L	1	7/16/2010 12:55:24 PM
Lead	ND	0.0050		mg/L	1	7/16/2010 12:55:24 PM
Selenium	ND	0.050		mg/L	1	7/16/2010 12:55:24 PM
Silver	ND	0.0050		mg/L	1	7/16/2010 12:55:24 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	615	20.0		mg/L	1	7/15/2010 1:32:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	1007436	**Collection Date:**	7/8/2010 2:06:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007436-02	**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	7/14/2010 10:16:09 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/14/2010 10:16:09 AM
Surr: DNOP	116	86.9-151		%REC	1	7/14/2010 10:16:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **BDH**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/15/2010 4:51:56 PM
Surr: BFB	109	65.7-118		%REC	1	7/15/2010 4:51:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **BDH**
Benzene	ND	1.0		µg/L	1	7/15/2010 4:51:56 PM
Toluene	ND	1.0		µg/L	1	7/15/2010 4:51:56 PM
Ethylbenzene	ND	1.0		µg/L	1	7/15/2010 4:51:56 PM
Xylenes, Total	ND	2.0		µg/L	1	7/15/2010 4:51:56 PM
Surr: 4-Bromofluorobenzene	116	65.9-130		%REC	1	7/15/2010 4:51:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	28	10		mg/L	20	7/18/2010 7:13:01 AM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	7/19/2010 5:17:20 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	7/16/2010 1:00:51 PM
Barium	0.28	0.020		mg/L	1	7/16/2010 1:00:51 PM
Cadmium	ND	0.0020		mg/L	1	7/16/2010 1:00:51 PM
Chromium	0.025	0.0060		mg/L	1	7/16/2010 1:00:51 PM
Lead	ND	0.0050		mg/L	1	7/16/2010 1:00:51 PM
Selenium	ND	0.050		mg/L	1	7/16/2010 1:00:51 PM
Silver	ND	0.0050		mg/L	1	7/16/2010 1:00:51 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	595	20.0		mg/L	1	7/15/2010 1:32:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	1007436	**Collection Date:**	7/8/2010 2:48:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007436-03	**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	7/14/2010 10:50:00 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/14/2010 10:50:00 AM
Surr: DNOP	112	86.9-151		%REC	1	7/14/2010 10:50:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **BDH**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/15/2010 5:22:15 PM
Surr: BFB	100	65.7-118		%REC	1	7/15/2010 5:22:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: **BDH**
Benzene	ND	1.0		µg/L	1	7/15/2010 5:22:15 PM
Toluene	ND	1.0		µg/L	1	7/15/2010 5:22:15 PM
Ethylbenzene	ND	1.0		µg/L	1	7/15/2010 5:22:15 PM
Xylenes, Total	ND	2.0		µg/L	1	7/15/2010 5:22:15 PM
Surr: 4-Bromofluorobenzene	107	65.9-130		%REC	1	7/15/2010 5:22:15 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	28	10		mg/L	20	7/18/2010 7:30:25 AM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	7/19/2010 5:19:05 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	7/16/2010 1:06:04 PM
Barium	0.28	0.020		mg/L	1	7/16/2010 1:06:04 PM
Cadmium	ND	0.0020		mg/L	1	7/16/2010 1:06:04 PM
Chromium	0.028	0.0060		mg/L	1	7/16/2010 1:06:04 PM
Lead	0.0065	0.0050		mg/L	1	7/16/2010 1:06:04 PM
Selenium	ND	0.050		mg/L	1	7/16/2010 1:06:04 PM
Silver	ND	0.0050		mg/L	1	7/16/2010 1:06:04 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	567	20.0		mg/L	1	7/15/2010 1:32:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	1007436	**Collection Date:**	7/8/2010 1:38:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007436-04	**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	7/14/2010 11:23:52 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/14/2010 11:23:52 AM
Surr: DNOP	120	86.9-151		%REC	1	7/14/2010 11:23:52 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **BDH**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/15/2010 5:52:35 PM
Surr: BFB	114	65.7-118		%REC	1	7/15/2010 5:52:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: **BDH**
Benzene	ND	1.0		µg/L	1	7/15/2010 5:52:35 PM
Toluene	ND	1.0		µg/L	1	7/15/2010 5:52:35 PM
Ethylbenzene	ND	1.0		µg/L	1	7/15/2010 5:52:35 PM
Xylenes, Total	ND	2.0		µg/L	1	7/15/2010 5:52:35 PM
Surr: 4-Bromofluorobenzene	122	65.9-130		%REC	1	7/15/2010 5:52:35 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	21	10		mg/L	20	7/18/2010 7:47:50 AM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	7/19/2010 5:20:52 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	7/16/2010 1:25:05 PM
Barium	0.16	0.020		mg/L	1	7/16/2010 1:25:05 PM
Cadmium	ND	0.0020		mg/L	1	7/16/2010 1:25:05 PM
Chromium	0.019	0.0060		mg/L	1	7/16/2010 1:25:05 PM
Lead	ND	0.0050		mg/L	1	7/16/2010 1:25:05 PM
Selenium	ND	0.050		mg/L	1	7/16/2010 1:25:05 PM
Silver	ND	0.0050		mg/L	1	7/16/2010 1:25:05 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	700	100		mg/L	1	7/15/2010 1:32:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	1007436	**Collection Date:**	7/8/2010 12:52:00 PM
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007436-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	4.8	3.0		mg/L	1	7/14/2010 11:57:42 AM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	7/14/2010 11:57:42 AM
Surr: DNOP	129	86.9-151		%REC	1	7/14/2010 11:57:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **BDH**
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	7/15/2010 2:50:43 PM
Surr: BFB	94.2	65.7-118		%REC	10	7/15/2010 2:50:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: **BDH**
Benzene	ND	10		µg/L	10	7/15/2010 2:50:43 PM
Toluene	ND	10		µg/L	10	7/15/2010 2:50:43 PM
Ethylbenzene	ND	10		µg/L	10	7/15/2010 2:50:43 PM
Xylenes, Total	ND	20		µg/L	10	7/15/2010 2:50:43 PM
Surr: 4-Bromofluorobenzene	102	65.9-130		%REC	10	7/15/2010 2:50:43 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	150000	5000		mg/L	10000	7/20/2010 12:36:33 PM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	7/19/2010 5:22:38 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.50		mg/L	5	7/16/2010 1:33:59 PM
Barium	110	5.0		mg/L	50	7/16/2010 2:03:48 PM
Cadmium	0.075	0.050		mg/L	5	7/16/2010 1:33:59 PM
Chromium	ND	0.15		mg/L	5	7/16/2010 1:33:59 PM
Lead	ND	0.13		mg/L	5	7/16/2010 1:33:59 PM
Selenium	ND	1.3		mg/L	5	7/16/2010 1:33:59 PM
Silver	ND	0.13		mg/L	5	7/16/2010 1:33:59 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	190000	1000		mg/L	1	7/15/2010 1:32:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TRIP BLANK
Lab Order:	1007436	**Collection Date:**	
Project:	BMG Landfarm/Evap. Pond	**Date Received:**	7/13/2010
Lab ID:	1007436-06	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **BDH**
Benzene	ND	1.0		µg/L	1	7/15/2010 6:22:53 PM
Toluene	ND	1.0		µg/L	1	7/15/2010 6:22:53 PM
Ethylbenzene	ND	1.0		µg/L	1	7/15/2010 6:22:53 PM
Xylenes, Total	ND	2.0		µg/L	1	7/15/2010 6:22:53 PM
Surr: 4-Bromofluorobenzene	104	65.9-130		%REC	1	7/15/2010 6:22:53 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1007436

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R39874**	Analysis Date:		7/17/2010 3:50:18 PM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39887**	Analysis Date:		7/18/2010 12:26:23 PM	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39937**	Analysis Date:		7/20/2010 9:07:37 AM	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R39874**	Analysis Date:		7/17/2010 4:07:42 PM	
Chloride	5.108	mg/L	0.50	5	0	102	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39887**	Analysis Date:		7/18/2010 12:43:47 PM	
Chloride	4.527	mg/L	0.50	5	0	90.5	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39937**	Analysis Date:		7/20/2010 9:25:02 AM	
Chloride	4.967	mg/L	0.50	5	0	99.3	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-23014		*MBLK*				Batch ID:	**23014**	Analysis Date:		7/14/2010 8:00:52 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-23014		*LCS*				Batch ID:	**23014**	Analysis Date:		7/14/2010 8:34:43 AM	
Diesel Range Organics (DRO)	5.540	mg/L	1.0	5	0	111	74	157			
Sample ID: LCSD-23014		*LCSD*				Batch ID:	**23014**	Analysis Date:		7/14/2010 9:08:33 AM	
Diesel Range Organics (DRO)	5.708	mg/L	1.0	5	0	114	74	157	2.97	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R39847**	Analysis Date:		7/15/2010 9:47:42 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R39847**	Analysis Date:		7/15/2010 11:49:03 AM	
Gasoline Range Organics (GRO)	0.5286	mg/L	0.050	0.5	0	106	82.3	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1007436

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5mL rb1		*MBLK*				Batch ID:	**R39847**	Analysis Date:		7/15/2010 9:47:42 AM	
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:	**R39847**	Analysis Date:		7/15/2010 12:19:26 PM	
Benzene	19.32	µg/L	1.0	20	0	96.6	87.9	121			
Toluene	19.37	µg/L	1.0	20	0	96.9	83	124			
Ethylbenzene	19.08	µg/L	1.0	20	0	95.4	81.7	122			
Xylenes, Total	57.55	µg/L	2.0	60	0	95.9	85.6	121			
Sample ID: 1007436-01A MS		*MS*				Batch ID:	**R39847**	Analysis Date:		7/15/2010 6:53:18 PM	
Benzene	19.83	µg/L	1.0	20	0	99.1	85.9	113			
Toluene	20.86	µg/L	1.0	20	0	104	86.4	113			
Ethylbenzene	20.93	µg/L	1.0	20	0	105	83.5	118			
Xylenes, Total	62.24	µg/L	2.0	60	0	104	83.4	122			
Method: EPA Method 7470: Mercury											
Sample ID: 1007436-01DMSD		*MSD*				Batch ID:	**23019**	Analysis Date:		7/15/2010 3:10:12 PM	
Mercury	0.005452	mg/L	0.00020	0.005	0	109	75	125	1.20	20	
Sample ID: MB-23019		*MBLK*				Batch ID:	**23019**	Analysis Date:		7/15/2010 2:46:49 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: MB-23054		*MBLK*				Batch ID:	**23054**	Analysis Date:		7/19/2010 4:55:44 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-23019		*LCS*				Batch ID:	**23019**	Analysis Date:		7/15/2010 2:48:37 PM	
Mercury	0.004948	mg/L	0.00020	0.005	0	99.0	80	120			
Sample ID: LCS-23054		*LCS*				Batch ID:	**23054**	Analysis Date:		7/19/2010 4:57:34 PM	
Mercury	0.004788	mg/L	0.00020	0.005	0	95.8	80	120			
Sample ID: LCS-23054		*LCS*				Batch ID:	**23054**	Analysis Date:		7/19/2010 4:59:25 PM	
Mercury	0.004806	mg/L	0.00020	0.005	0	96.1	80	120			
Sample ID: 1007436-01DMS		*MS*				Batch ID:	**23019**	Analysis Date:		7/15/2010 3:08:26 PM	
Mercury	0.005518	mg/L	0.00020	0.005	0	110	75	125			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Evap. Pond **Work Order:** 1007436

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-23026		*MBLK*				Batch ID:	**23026**	Analysis Date:	7/16/2010 12:06:06 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-23026		*LCS*				Batch ID:	**23026**	Analysis Date:	7/16/2010 12:08:57 PM		
Arsenic	0.5227	mg/L	0.020	0.5	0	105	80	120			
Barium	0.4724	mg/L	0.020	0.5	0	94.5	80	120			
Cadmium	0.4886	mg/L	0.0020	0.5	0	97.7	80	120			
Chromium	0.4862	mg/L	0.0060	0.5	0	97.2	80	120			
Lead	0.4859	mg/L	0.0050	0.5	0	97.2	80	120			
Selenium	0.5027	mg/L	0.050	0.5	0	101	80	120			
Silver	0.4944	mg/L	0.0050	0.5	0.0013	98.6	80	120			
Sample ID: LCS-23026		*LCS*				Batch ID:	**23026**	Analysis Date:	7/16/2010 12:13:30 PM		
Arsenic	0.5124	mg/L	0.020	0.5	0	102	80	120			
Barium	0.4724	mg/L	0.020	0.5	0	94.5	80	120			
Cadmium	0.4789	mg/L	0.0020	0.5	0	95.8	80	120			
Chromium	0.4848	mg/L	0.0060	0.5	0	97.0	80	120			
Lead	0.4795	mg/L	0.0050	0.5	0	95.9	80	120			
Selenium	0.4892	mg/L	0.050	0.5	0	97.8	80	120			
Silver	0.4926	mg/L	0.0050	0.5	0.0013	98.3	80	120			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-23016		*MBLK*				Batch ID:	**23016**	Analysis Date:	7/15/2010 1:32:00 PM		
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-23016		*LCS*				Batch ID:	**23016**	Analysis Date:	7/15/2010 1:32:00 PM		
Total Dissolved Solids	1020	mg/L	20.0	1000	0	102	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **ANIMAS ENVIRONMENTAL** Date Received: **7/13/2010**

Work Order Number **1007436** Received by: **ARS**

Checklist completed by: _____ 7/13/10 Sample ID labels checked by: _____
Signature Date Initials

Matrix: Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	**1.3°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 5

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services, LLC.

Mailing Address: 624 E. Comanche Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: BMG Landfarm / Evap. Pond

Project #: 040605

Project Manager: R. Kennemer

Sampler: N. Willis

On Ice: ☒ Yes ☐ No

Sample Temperature: 13

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1006136	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals + Lead (6010/7470/7471)	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8015 (TPH C_6-C_{36})	300.0 Chlorides	SM2540C TDS		Air Bubbles (Y or N)
7-8-10	1152	H_2O	MW-1	6-40mL glass 2-500mL plastic	5-HCl 1-HNO_3	1	X						X					X	X	X		
"	1406	"	MW-2	"	"	2	X						X					X	X	X		
"	1448	"	MW-3	"	"	3	X						X					X	X	X		
"	1338	"	MW-4	"	"	4	X						X					X	X	X		
"	1252	"	Interstitial Well	"	"	5	X						X					X	X	X		
		H_2O	Trip Blank	2-40mL glass	HCl	6	X															

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/12/10	1645			7/13/10	15:15
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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

AES Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

June 1, 2010

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the April 2010 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On April 16, 2010, Animas Environmental Services, LLC (AES) completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner in late September 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on April 16, 2010. Groundwater samples were collected from

monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0;
- Total Dissolved Solids (TDS) – SM 2540C;
- Chromium and Lead – EPA 6010.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, and conductivity for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 9.54°C (IW) to 12.65°C (MW-3), and groundwater pH ranged from 7.06 (IW) to 7.52 (MW-1). Conductivity readings were between 0.845 mS (MW-3) to 181.0 mS (IW). Groundwater ORP was not measured due to YSI probe sensor malfunction. A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the April 2010 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, are below the New Mexico Water Quality Control Commission (WQCC) standards. All monitor wells had TPH concentrations below laboratory detection limits as well.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled but have remained relatively stable. Chromium and lead concentrations were below laboratory detection limits or below the applicable WQCC standards of 0.05 mg/L. The results above laboratory detection limits have been summarized as follows:

- Chloride: IW (120,000 mg/L), MW-1 (17 mg/L), MW-2 (31 mg/L), MW-3 (31 mg/L), and MW-4 (18 mg/L);
- TDS: IW (177,000 mg/L), MW-1 (656 mg/L), MW-2 (616 mg/L), MW-3 (552 mg/L), and MW-4 (674 mg/L);
- Chromium: MW-1 (0.012 mg/L), MW-3 (0.010 mg/L), and MW-4 (0.0079 mg/L);
- Lead: MW-1 (0.0070 mg/L).

The analytical results for the groundwater samples collected during the April 2010 sampling event are presented in Tables 2 and 3 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from 2 feet below ground surface in each of Cell #1, Cell #2, and Cell #3. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH (GRO, MRO, and DRO) per EPA Method 8015B;
- Chlorides per EPA Method 300.0.

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES's observations of the treatment cells at the time of sample collection, Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Treatment Cell #4 is not in use, and therefore was not sampled. Results are summarized as follows:

- BTEX and TPH-GRO concentrations were below laboratory detection limits in each cell;
- TPH-DRO concentrations ranged from below the laboratory detection limit (10 mg/kg) to 110 mg/kg (Cell #2). Reported TPH-MRO concentrations ranged from below the laboratory detection limit (50 mg/kg) to 310 mg/kg (Cell #2);
- Chloride concentrations were reported below the applicable NMOCD standard (500 mg/kg) in each of the samples. Chloride concentrations ranged from 6.0 mg/kg (Cell #2) to 20 mg/kg (Cell #3).

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented on Figure 2. Laboratory analytical results are summarized in Table 4 and Table 5, and laboratory reports are presented in Appendix A.

3.0 Conclusion and Recommendations

Based on the results of the April 2010 sampling event at the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH. Groundwater samples from MW-1 through MW-4 were also below applicable WQCC standards of 0.05 mg/L for chromium and lead.

Cells #1 through #3 were sampled in April 2010. Soil analytical results from treatment zone monitoring conducted within the landfarm were below laboratory detection limits for BTEX constituents and TPH-GRO. Concentrations of chloride remained below applicable standards. Cell #2 had reported concentrations of TPH-DRO and TPH-MRO above laboratory detection limits, with 110 mg/kg and 310 mg/kg, respectively.

AES has scheduled the next quarterly treatment zone monitoring and sampling of evaporation pond monitoring wells to occur in July 2010. Dissolved phase chromium and lead samples will be collected with a submersible sampling pump to allow for a sample from a deeper interval. If you have any questions regarding the site conditions or sampling results, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

Corwin Lameman
Geology Intern

Elizabeth D. McNally

Elizabeth McNally, PE

Attachments:

Tables
Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Summary of Groundwater Metals Analytical Results
Table 4. Soil BTEX and TPH Concentrations
Table 5. Soil Chloride Concentrations

Figures
Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
Figure 2. Treatment Zone Monitoring Locations

Appendices
Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

cc: Mike Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington NM 87402

Brandon Powell
NM Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

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TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (ºC)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (ºC)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		***10***	***750***	***750***	***620***	***NE***	***NE***	***NE***	***NE***	***NE***
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
Interstitial Well	16-Apr-10	NA	NA	NA	<0.12	<0.10	NA	NA	NA
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW- 1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW- 1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW- 1	16-Apr-10	NA	NA	NA	0.012	0.0070	NA	NA	NA
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-2	16-Apr-10	NA	NA	NA	<0.0060	<0.0050	NA	NA	NA
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-3	16-Apr-10	NA	NA	NA	0.010	<0.0050	NA	NA	NA
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA
MW-4	16-Apr-10	NA	NA	NA	0.0079	<0.0050	NA	NA	NA

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	-
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	-
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	-
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	-
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	-
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	-
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	-
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	-
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Chloride (mg/kg)
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #1	#1	11-Jan-10	2	22
Cell #1	#1	16-Apr-10	2	18
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #2	#2	11-Jan-10	2	16
Cell #2	#2	11-Jan-10	2	6.0
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1

TABLE 5

Soil Chloride Concentrations

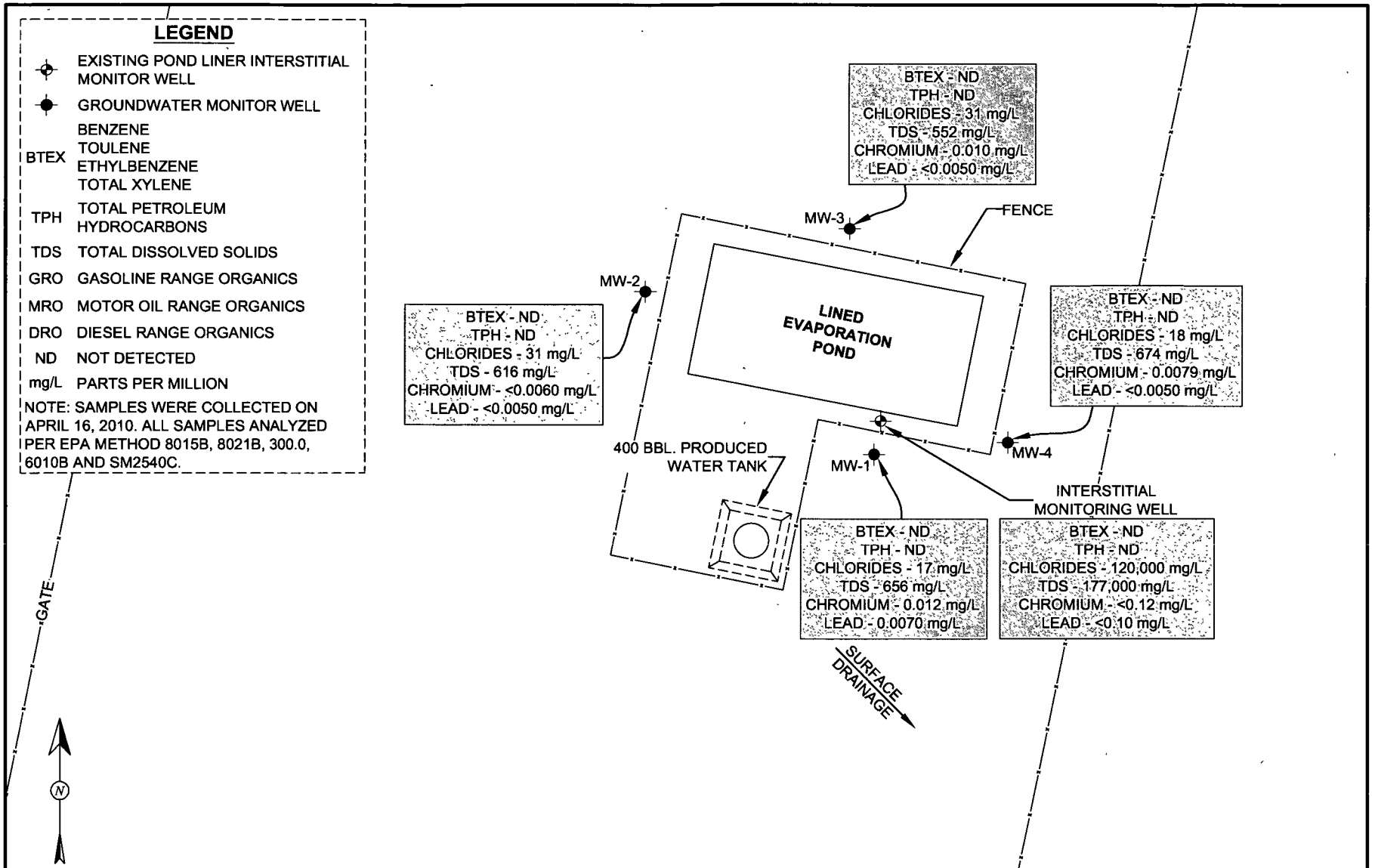
BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
		NMOCD Soil Standard		**500**
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28
Cell #3	#3	11-Jan-10	2	17
Cell #3	#3	16-Apr-10	2	20

Note: * = Concentrations reported are in mg/L

NA = Not Analyzed



Animas Environmental Services, LLC

DRAWN BY: R. Kennemer	DATE DRAWN: April 28, 2008
REVISIONS BY: C. Lameman	DATE REVISED: May 10, 2010
CHECKED BY: D. Watson	DATE CHECKED: May 18, 2010
APPROVED BY: E. McNally	DATE APPROVED: June 1, 2010

FIGURE 1
BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS
NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

S \ANIMAS 2000\2010 PROJECTS\BMG\LANDFARM\MAPS AND DRAWINGS\JUNE 2010 QMR DRAWINGS\FIGURE 1 EVAPORATION POND AND MONITOR WELL LOCATIONS

FIGURE 2
BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY MONITORING LOCATIONS APRIL 2010
NW1/4, NW1/4, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

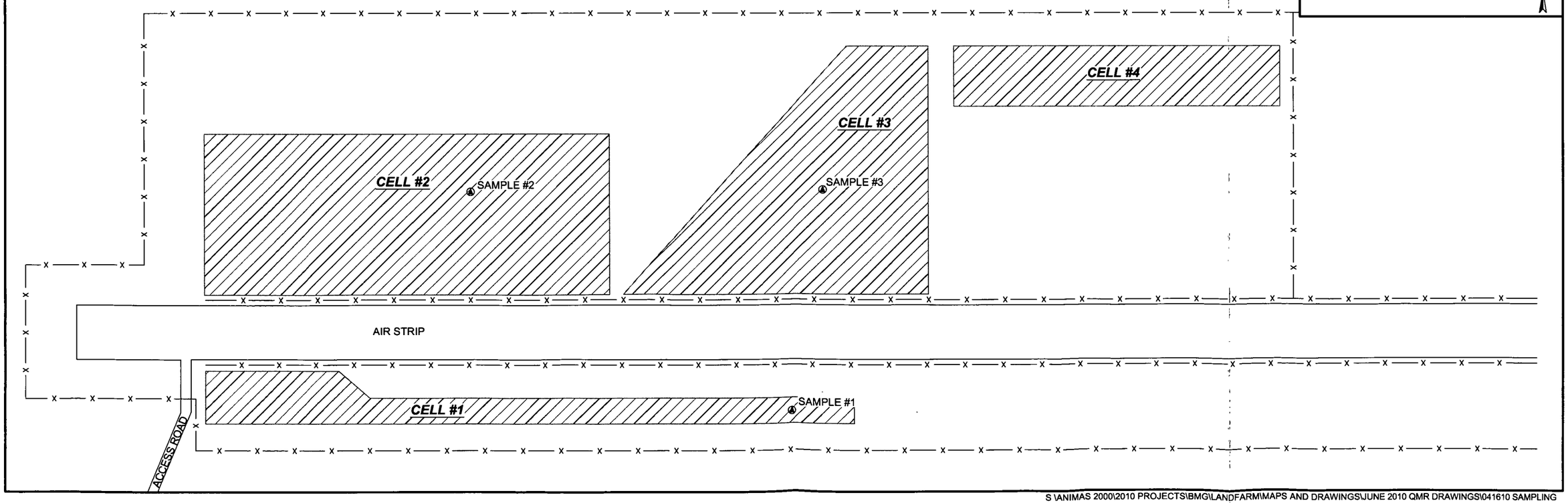
Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
N. Willis	May 29, 2009
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 10, 2010
CHECKED BY:	**DATE CHECKED:**
D. Watson	May 18, 2010
APPROVED BY:	**DATE APPROVED:**
E. McNally	June 1, 2010

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

SUMMARY OF QUARTERLY TREATMENT ZONE MONITORING APRIL 2010

LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	#1	N 36°23.329' W 106°51.937'	04/16/10	2	<0 050	<0.050	<0.050	<0.10	<5.0	<10	<50	**18**
CELL #2	#2	N 36°23.397' W 106°51.975'	04/16/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	**110**	**310**	**6.0**
CELL #3	#3	N.36°23 349' W 106°51.873'	04/16/10	2	<0 050	<0.050	<0.050	<0.10	<5.0	<10	<50	**20**
CELL #4		NOT IN USE, NO SAMPLE										



S \ANIMAS 2000\2010 PROJECTS\BMG\LANDFARM\MAPS AND DRAWINGS\JUNE 2010 QMR DRAWINGS\041610 SAMPLING

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. Willis / C. Lameman

Project No.: AES 040605
Date: 4-16-10
Time: 1220
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1354	—	39.16	—	
MW-2	1301	—	40.22	—	
MW-3	1225	—	39.44	—	
MW-4	1428	—	39.94	—	
Interstitial	1334	—	9.71	—	

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.16 **Time:** 1354 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 4-16-10
Arrival Time: 1353
Air Temp: 59°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1358	12.17	2.277	3.67	7.53		0.25	
1401	11.95	1.036	4.47	7.52		1	
1406							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

6010 Chromium and Lead (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis / C. Lameman
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.22 **Time:** 1301 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 4-16-10
Arrival Time: 1256
Air Temp: 65°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1305	12.78	0.876	2.76	7.61		0.25	
1308	11.70	0.869	4.51	7.50		0.75	
1313							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

6010 Chromium and Lead (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis / C. Lameman
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.44 **Time:** 1225 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 4-16-10
Arrival Time: 1220
Air Temp: 65°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1227	13.35	0.850	4.36	7.45		0.25	
1234	12.65	0.845	4.86	7.19		1	
1239							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

6010 Chromium and Lead (1 - 500 mL plastic w/ HNO_3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis / C. Lameman
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.94 **Time:** 1428 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 4-16-10
Arrival Time: 1426
Air Temp: 62°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1430	12.58	0.954	4.28	7.47		0.25	
1434	12.59	0.952	5.27	7.48		1	
1439							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

6010 Chromium and Lead (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: **Interstitial Well**	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond — **Project No.:** AES 040605
Location: Llaves, Rio Arriba County, New Mexico — **Date:** 4-16-10
Project: Groundwater Monitoring and Sampling — **Arrival Time:** 1326
Sampling Technician: N. Willis / C. Lameman — **Air Temp:** 65°F
Purge / No Purge: Purge — **T.O.C. Elev. (ft):** TBS
Well Diameter (in): 2 — **Total Well Depth (ft):** 12.1
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.71 **Time:** 1334 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1338	9.54	181.0	0.42	7.06		0.25	
							Samples Collected

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)
6010 Chromium and Lead (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, May 05, 2010

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: BMG Landfarm & Evaporation Pond

Order No.: 1004426

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 4/20/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	1004426	**Collection Date:**	4/16/2010 2:06:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-01	**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	4/24/2010 8:54:16 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/24/2010 8:54:16 PM
Surr: DNOP	123	86.9-151		%REC	1	4/24/2010 8:54:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/22/2010 1:58:10 AM
Surr: BFB	89.2	55.2-107		%REC	1	4/22/2010 1:58:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	4/22/2010 1:58:10 AM
Toluene	ND	1.0		µg/L	1	4/22/2010 1:58:10 AM
Ethylbenzene	ND	1.0		µg/L	1	4/22/2010 1:58:10 AM
Xylenes, Total	ND	2.0		µg/L	1	4/22/2010 1:58:10 AM
Surr: 4-Bromofluorobenzene	87.6	65.9-130		%REC	1	4/22/2010 1:58:10 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Chloride	17	0.50		mg/L	1	4/24/2010 5:44:05 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	0.012	0.0060		mg/L	1	4/22/2010 7:45:12 PM
Lead	0.0070	0.0050		mg/L	1	4/22/2010 7:45:12 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	656	40.0		mg/L	1	4/21/2010 6:25:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	1004426	**Collection Date:**	4/16/2010 1:13:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-02	**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	4/24/2010 9:29:53 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/24/2010 9:29:53 PM
Surr: DNOP	122	86.9-151		%REC	1	4/24/2010 9:29:53 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/22/2010 2:28:21 AM
Surr: BFB	94.6	55.2-107		%REC	1	4/22/2010 2:28:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	4/22/2010 2:28:21 AM
Toluene	ND	1.0		µg/L	1	4/22/2010 2:28:21 AM
Ethylbenzene	ND	1.0		µg/L	1	4/22/2010 2:28:21 AM
Xylenes, Total	ND	2.0		µg/L	1	4/22/2010 2:28:21 AM
Surr: 4-Bromofluorobenzene	94.5	65.9-130		%REC	1	4/22/2010 2:28:21 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Chloride	31	10		mg/L	20	4/24/2010 6:36:18 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	ND	0.0060		mg/L	1	4/22/2010 7:48:10 PM
Lead	ND	0.0050		mg/L	1	4/22/2010 7:48:10 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	616	40.0		mg/L	1	4/21/2010 6:25:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	1004426	**Collection Date:**	4/16/2010 12:39:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-03	**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	4/24/2010 10:05:51 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/24/2010 10:05:51 PM
Surr: DNOP	124	86.9-151		%REC	1	4/24/2010 10:05:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/22/2010 2:58:29 AM
Surr: BFB	91.6	55.2-107		%REC	1	4/22/2010 2:58:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	4/22/2010 2:58:29 AM
Toluene	ND	1.0		µg/L	1	4/22/2010 2:58:29 AM
Ethylbenzene	ND	1.0		µg/L	1	4/22/2010 2:58:29 AM
Xylenes, Total	ND	2.0		µg/L	1	4/22/2010 2:58:29 AM
Surr: 4-Bromofluorobenzene	90.6	65.9-130		%REC	1	4/22/2010 2:58:29 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Chloride	31	10		mg/L	20	4/24/2010 7:11:07 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	0.010	0.0060		mg/L	1	4/22/2010 7:50:58 PM
Lead	ND	0.0050		mg/L	1	4/22/2010 7:50:58 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	552	40.0		mg/L	1	4/23/2010 3:24:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	1004426	**Collection Date:**	4/16/2010 2:39:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-04	**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	4/24/2010 10:41:33 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/24/2010 10:41:33 PM
Surr: DNOP	120	86.9-151		%REC	1	4/24/2010 10:41:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/22/2010 3:28:50 AM
Surr: BFB	94.5	55.2-107		%REC	1	4/22/2010 3:28:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	4/22/2010 3:28:50 AM
Toluene	ND	1.0		µg/L	1	4/22/2010 3:28:50 AM
Ethylbenzene	ND	1.0		µg/L	1	4/22/2010 3:28:50 AM
Xylenes, Total	ND	2.0		µg/L	1	4/22/2010 3:28:50 AM
Surr: 4-Bromofluorobenzene	94.6	65.9-130		%REC	1	4/22/2010 3:28:50 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Chloride	18	0.50		mg/L	1	4/24/2010 8:03:21 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	0.0079	0.0060		mg/L	1	4/22/2010 8:05:01 PM
Lead	ND	0.0050		mg/L	1	4/22/2010 8:05:01 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	674	20.0		mg/L	1	4/23/2010 3:24:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	1004426	**Collection Date:**	4/16/2010 1:41:00 PM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	3.0		mg/L	1	4/24/2010 11:17:12 PM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	4/24/2010 11:17:12 PM
Surr: DNOP	117	86.9-151		%REC	1	4/24/2010 11:17:12 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	4/22/2010 3:59:04 AM
Surr: BFB	93.5	55.2-107		%REC	10	4/22/2010 3:59:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	10		µg/L	10	4/22/2010 3:59:04 AM
Toluene	ND	10		µg/L	10	4/22/2010 3:59:04 AM
Ethylbenzene	ND	10		µg/L	10	4/22/2010 3:59:04 AM
Xylenes, Total	ND	20		µg/L	10	4/22/2010 3:59:04 AM
Surr: 4-Bromofluorobenzene	93.4	65.9-130		%REC	10	4/22/2010 3:59:04 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	120000	5000		mg/L	10000	4/30/2010 10:17:00 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **SNV**
Chromium	ND	0.12		mg/L	20	4/26/2010 10:33:24 AM
Lead	ND	0.10		mg/L	20	4/26/2010 10:33:24 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	177000	400		mg/L	1	4/23/2010 3:24:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell-1
Lab Order:	1004426	**Collection Date:**	4/16/2010 11:41:00 AM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-06	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/22/2010 9:31:02 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/22/2010 9:31:02 PM
Surr: DNOP	95.2	61.7-135		%REC	1	4/22/2010 9:31:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/23/2010 1:16:46 AM
Surr: BFB	87.3	65.9-118		%REC	1	4/23/2010 1:16:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	4/23/2010 1:16:46 AM
Benzene	ND	0.050		mg/Kg	1	4/23/2010 1:16:46 AM
Toluene	ND	0.050		mg/Kg	1	4/23/2010 1:16:46 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/23/2010 1:16:46 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/23/2010 1:16:46 AM
Surr: 4-Bromofluorobenzene	85.9	64.7-120		%REC	1	4/23/2010 1:16:46 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Chloride	18	1.5		mg/Kg	1	4/26/2010 11:43:24 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell-2
Lab Order:	1004426	**Collection Date:**	4/16/2010 11:21:00 AM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-07	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	110	10		mg/Kg	1	4/22/2010 10:06:31 PM
Motor Oil Range Organics (MRO)	310	50		mg/Kg	1	4/22/2010 10:06:31 PM
Surr: DNOP	93.1	61.7-135		%REC	1	4/22/2010 10:06:31 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/23/2010 1:47:08 AM
Surr: BFB	94.1	65.9-118		%REC	1	4/23/2010 1:47:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	4/23/2010 1:47:08 AM
Benzene	ND	0.050		mg/Kg	1	4/23/2010 1:47:08 AM
Toluene	ND	0.050		mg/Kg	1	4/23/2010 1:47:08 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/23/2010 1:47:08 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/23/2010 1:47:08 AM
Surr: 4-Bromofluorobenzene	95.9	64.7-120		%REC	1	4/23/2010 1:47:08 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Chloride	6.0	1.5		mg/Kg	1	4/26/2010 12:35:37 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell-3
Lab Order:	1004426	**Collection Date:**	4/16/2010 11:05:00 AM
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-08	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/22/2010 10:41:57 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/22/2010 10:41:57 PM
Surr: DNOP	90.0	61.7-135		%REC	1	4/22/2010 10:41:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/23/2010 2:17:26 AM
Surr: BFB	92.4	65.9-118		%REC	1	4/23/2010 2:17:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/23/2010 2:17:26 AM
Toluene	ND	0.050		mg/Kg	1	4/23/2010 2:17:26 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/23/2010 2:17:26 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/23/2010 2:17:26 AM
Surr: 4-Bromofluorobenzene	93.5	64.7-120		%REC	1	4/23/2010 2:17:26 AM
EPA METHOD 300.0: ANIONS						Analyst: **MMS**
Chloride	20	7.5		mg/Kg	5	4/26/2010 12:53:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TRIP BLANK
Lab Order:	1004426	**Collection Date:**	
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-09	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	4/22/2010 4:29:21 AM
Surr: BFB	88.3	55.2-107		%REC	1	4/22/2010 4:29:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	4/22/2010 4:29:21 AM
Toluene	ND	1.0		µg/L	1	4/22/2010 4:29:21 AM
Ethylbenzene	ND	1.0		µg/L	1	4/22/2010 4:29:21 AM
Xylenes, Total	ND	2.0		µg/L	1	4/22/2010 4:29:21 AM
Surr: 4-Bromofluorobenzene	86.4	65.9-130		%REC	1	4/22/2010 4:29:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *05-May-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MeOH BLANK
Lab Order:	1004426	**Collection Date:**	
Project:	BMG Landfarm & Evaporation Pond	**Date Received:**	4/20/2010
Lab ID:	1004426-10	**Matrix:**	MEOH BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/23/2010 2:47:36 AM
Surr: BFB	83.5	65.9-118		%REC	1	4/23/2010 2:47:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/23/2010 2:47:36 AM
Toluene	ND	0.050		mg/Kg	1	4/23/2010 2:47:36 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/23/2010 2:47:36 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/23/2010 2:47:36 AM
Surr: 4-Bromofluorobenzene	80.4	64.7-120		%REC	1	4/23/2010 2:47:36 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1004426

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1004426-06AMSD		*MSD*				Batch ID:	**22054**	Analysis Date:		**4/26/2010 12:18:13 PM**	
Chloride	33.83	mg/Kg	1.5	15	18.17	104	53.9	146	0.0186	20	
Sample ID: MB-22054		*MBLK*				Batch ID:	**22054**	Analysis Date:		**4/26/2010 11:08:35 AM**	
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-22054		*LCS*				Batch ID:	**22054**	Analysis Date:		**4/26/2010 11:26:00 AM**	
Chloride	14.40	mg/Kg	1.5	15	0	96.0	90	110			
Sample ID: 1004426-06AMS		*MS*				Batch ID:	**22054**	Analysis Date:		**4/26/2010 12:00:48 PM**	
Chloride	33.83	mg/Kg	1.5	15	18.17	104	53.9	146			
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R38381**	Analysis Date:		**4/24/2010 1:05:32 PM**	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R38381**	Analysis Date:		**4/25/2010 5:20:24 AM**	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R38413**	Analysis Date:		**4/26/2010 9:00:28 PM**	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R38444**	Analysis Date:		**4/28/2010 2:18:48 PM**	
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R38481**	Analysis Date:		**4/30/2010 4:46:15 PM**	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R38381**	Analysis Date:		**4/24/2010 1:22:57 PM**	
Chloride	4.974	mg/L	0.50	5	0	99.5	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R38381**	Analysis Date:		**4/25/2010 5:37:48 AM**	
Chloride	4.936	mg/L	0.50	5	0	98.7	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R38444**	Analysis Date:		**4/28/2010 2:36:12 PM**	
Chloride	4.851	mg/L	0.50	5	0	97.0	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R38481**	Analysis Date:		**4/30/2010 5:03:39 PM**	
Chloride	5.056	mg/L	0.50	5	0	101	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-22000		*MBLK*				Batch ID:	**22000**	Analysis Date:		**4/22/2010 4:49:05 AM**	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-22000		*LCS*				Batch ID:	**22000**	Analysis Date:		**4/22/2010 5:24:57 AM**	
Diesel Range Organics (DRO)	34.27	mg/Kg	10	50	0	68.5	64.6	116			
Sample ID: LCSD-22000		*LCSD*				Batch ID:	**22000**	Analysis Date:		**4/22/2010 6:00:22 AM**	
Diesel Range Organics (DRO)	36.77	mg/Kg	10	50	0	73.5	64.6	116	7.05	17.4	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1004426

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-22023		*MBLK*				Batch ID:	22023	Analysis Date:		4/24/2010 6:32:18 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-22023		*LCS*				Batch ID:	22023	Analysis Date:		4/24/2010 7:07:54 PM	
Diesel Range Organics (DRO)	4.425	mg/L	1.0	5	0	88.5	74	157			
Sample ID: LCSD-22023		*LCSD*				Batch ID:	22023	Analysis Date:		4/24/2010 7:43:19 PM	
Diesel Range Organics (DRO)	4.476	mg/L	1.0	5	0	89.5	74	157	1.15	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-22009		*MBLK*				Batch ID:	22009	Analysis Date:		4/23/2010 4:48:58 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-22009		*LCS*				Batch ID:	22009	Analysis Date:		4/23/2010 4:18:37 AM	
Gasoline Range Organics (GRO)	24.67	mg/Kg	5.0	25	2.53	88.6	77.7	135			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1004426-02A MSD		*MSD*				Batch ID:	R38325	Analysis Date:		4/21/2010 7:23:46 PM	
Gasoline Range Organics (GRO)	0.5546	mg/L	0.050	0.5	0	111	80	115	2.41	8.39	
Sample ID: 5ML RB		*MBLK*				Batch ID:	R38325	Analysis Date:		4/21/2010 8:39:03 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	R38325	Analysis Date:		4/21/2010 3:14:45 PM	
Gasoline Range Organics (GRO)	0.5216	mg/L	0.050	0.5	0	104	80	115			
Sample ID: 1004426-02A MS		*MS*				Batch ID:	R38325	Analysis Date:		4/21/2010 6:53:20 PM	
Gasoline Range Organics (GRO)	0.5414	mg/L	0.050	0.5	0	108	80	115			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1004426

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-21997		*MBLK*				**Batch ID: 21997**		**Analysis Date:**	4/22/2010 7:41:24 PM		
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: MB-22009		*MBLK*				**Batch ID: 22009**		**Analysis Date:**	4/23/2010 4:48:58 AM		
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-21997		*LCS*				**Batch ID: 21997**		**Analysis Date:**	4/22/2010 7:11:18 PM		
Methyl tert-butyl ether (MTBE)	1.312	mg/Kg	0.10	1	0	131	67.9	135			
Benzene	0.9318	mg/Kg	0.050	1	0	93.2	78.8	132			
Toluene	0.8985	mg/Kg	0.050	1	0	89.9	78.9	112			
Ethylbenzene	0.9612	mg/Kg	0.050	1	0	96.1	69.3	125			
Xylenes, Total	2.934	mg/Kg	0.10	3	0	97.8	73	128			
Sample ID: LCS-22009		*LCS*				**Batch ID: 22009**		**Analysis Date:**	4/23/2010 6:06:59 PM		
Methyl tert-butyl ether (MTBE)	1.428	mg/Kg	0.10	1	0	143	67.9	135			S
Benzene	0.8652	mg/Kg	0.050	1	0	86.5	78.8	132			
Toluene	0.8426	mg/Kg	0.050	1	0	84.3	78.9	112			
Ethylbenzene	0.9155	mg/Kg	0.050	1	0	91.6	69.3	125			
Xylenes, Total	2.849	mg/Kg	0.10	3	0	95.0	73	128			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Evaporation Pond **Work Order:** 1004426

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1004426-01A MSD		*MSD*				**Batch ID: R38325**		**Analysis Date: 4/22/2010 5:30:06 AM**			
Benzene	20.35	µg/L	1.0	20	0	102	85.9	113	11.1	27	
Toluene	20.08	µg/L	1.0	20	0	100	86.4	113	12.2	19	
Ethylbenzene	19.49	µg/L	1.0	20	0	97.5	83.5	118	8.77	10	
Xylenes, Total	58.43	µg/L	2.0	60	0	97.4	83.4	122	4.55	13	
Sample ID: 5ML RB		*MBLK*				**Batch ID: R38325**		**Analysis Date: 4/21/2010 8:39:03 AM**			
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: R38325**		**Analysis Date: 4/21/2010 4:21:39 PM**			
Benzene	21.11	µg/L	1.0	20	0	106	85.9	113			
Toluene	21.26	µg/L	1.0	20	0	106	86.4	113			
Ethylbenzene	20.89	µg/L	1.0	20	0	104	83.5	118			
Xylenes, Total	63.40	µg/L	2.0	60	0	106	83.4	122			
Sample ID: 1004426-01A MS		*MS*				**Batch ID: R38325**		**Analysis Date: 4/22/2010 4:59:45 AM**			
Benzene	18.21	µg/L	1.0	20	0	91.1	85.9	113			
Toluene	17.78	µg/L	1.0	20	0	88.9	86.4	113			
Ethylbenzene	17.85	µg/L	1.0	20	0	89.3	83.5	118			
Xylenes, Total	55.83	µg/L	2.0	60	0	93.0	83.4	122			
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-22008		*MBLK*				**Batch ID: 22008**		**Analysis Date: 4/22/2010 5:04:38 PM**			
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Sample ID: LCS-22008		*LCS*				**Batch ID: 22008**		**Analysis Date: 4/22/2010 5:07:48 PM**			
Chromium	0.4965	mg/L	0.0060	0.5	0	99.3	80	120			
Lead	0.4839	mg/L	0.0050	0.5	0	96.8	80	120			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-21998		*MBLK*				**Batch ID: 21998**		**Analysis Date: 4/21/2010 6:25:00 PM**			
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: MB-22019		*MBLK*				**Batch ID: 22019**		**Analysis Date: 4/23/2010 3:24:00 PM**			
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-21998		*LCS*				**Batch ID: 21998**		**Analysis Date: 4/21/2010 6:25:00 PM**			
Total Dissolved Solids	1034	mg/L	20.0	1000	0	103	80	120			
Sample ID: LCS-22019		*LCS*				**Batch ID: 22019**		**Analysis Date: 4/23/2010 3:24:00 PM**			
Total Dissolved Solids	1025	mg/L	20.0	1000	0	103	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL | Date Received: 4/20/2010

Work Order Number 1004426 | Received by: ARS

Checklist completed by: _____ Signature 4/20/10 Date | Sample ID labels checked by: _____ Initials

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	<2 >12 unless noted below.
Container/Temp Blank temperature?	2.2°	<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services, LLC.

Mailing Address: 1024 E. Comanche Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: BMG Landfarm & Evaporation Pond

Project #: 040605

Project Manager: Ross Kennemer

Sampler: N. Willis / C. Lameman

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 100420	BTEX + [redacted] (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides (300.0)	TDS (SM 2540C)	Chromium & Lead (6010)		Air Bubbles (Y or N)
4-16-10	1406	H_2O	MW-1	5-40mL glass 1-40mL glass	HCl —	1	X		X									X	X	X		
	1313		MW-2	1-500mL plastic 1-500mL plastic	— HNO_3	2	X		X									X	X	X		
	1239		MW-3			3	X		X									X	X	X		
	1439		MW-4			4	X		X									X	X	X		
	1341		Interstitial Well	—	—	5	X		X									X	X	X		
4-16-10	1141	Soil	Cell-1	MeOH Kit	MeOH unpres.	6	X		X									X				
	1121		Cell-2			7	X		X									X				
	1105		Cell-3			8	X		X									X				
		H_2O	Trip Blanks	2-40mL glass	HCl	9																
		Soil	MeOH Blanks			10																

Date	Time	Relinquished by:	Received by:	Date	Time
4-19-10	1600			8:25 4/20/10	
		Relinquished by:	Received by:	Date	Time

Remarks:

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

AES Animas Environmental Services, LLC
624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

February 22, 2010

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the January 2010 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On January 11, 2010, Animas Environmental Services, LLC (AES) completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that, although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner in late September 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on January 11, 2010. Groundwater samples were collected from

monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0;
- Total Dissolved Solids (TDS) – SM 2540C;
- Chromium and Lead – EPA 6010.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation-reduction potential (ORP) measurements for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 7.73°C (IW) to 11.89°C (MW-4), and groundwater pH ranged from 6.70 (IW) to 7.40 (MW-3). Conductivity ranged from 0.669 mS (MW-3) to 160.7 mS (IW), and ORP was between -13.7 mV (IW) and 48.1 mV (MW-1). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the January 2010 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, are below the New Mexico Water Quality Control Commission (WQCC) standards. Each of the monitor wells had TPH concentrations below laboratory detection limits, while IW had a total TPH concentration of 13.5 mg/L.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled but have remained relatively stable. Chromium and lead concentrations were below laboratory detection limits or below the applicable WQCC standards of 0.05 mg/L. The results have been summarized as follows:

- Chloride: IW (120,000 mg/L), MW-1 (17 mg/L), MW-2 (30 mg/L), MW-3 (30 mg/L), and MW-4 (16 mg/L);

- TDS: IW (184,000 mg/L), MW-1 (710 mg/L), MW-2 (598 mg/L), MW-3 (615 mg/L), and MW-4 (664 mg/L);
- Chromium: MW-1 (0.019 mg/L), MW-2 (0.039 mg/L), MW-3 (0.025 mg/L), and MW-4 (0.0089 mg/L);
- Lead: MW-2 (0.0066 mg/L).

The analytical results for the groundwater samples collected during the January 2010 sampling event are presented in Tables 2 and 3 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from 2 feet below ground surface in each of Cell #1, Cell #2, and Cell #3. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH (GRO, MRO, and DRO) per EPA Method 8015B.

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES's observations of the treatment cells at the time of sample collection, Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Treatment Cell #4 is not in use, and therefore was not sampled. Results are summarized as follows:

- BTEX and TPH-GRO concentrations were below laboratory detection limits in each cell;

- TPH-DRO concentrations ranged from below the laboratory detection limit (10 mg/kg) to 91 mg/kg (Cell #1). Reported TPH-MRO concentrations ranged from below the laboratory detection limit (50 mg/kg) to 140 mg/kg (Cell #1);
- Chloride concentrations were reported below the applicable NMOCD standard (500 mg/kg) in each of the samples. Chloride concentrations ranged from 16 mg/kg (Cell #2) to 22 mg/kg (Cell #1).

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented on Figure 2. Laboratory analytical results are summarized in Table 4 and Table 5, and laboratory reports are presented in Appendix A.

3.0 Conclusion and Recommendations

Based on the results of the January 2010 sampling event at the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH. Groundwater samples from MW-1 through MW-4 were also below applicable WQCC standards of 0.05 mg/L for chromium and lead.

Cells #1 through #3 were sampled in January 2010. Soil analytical results from treatment zone monitoring conducted within the landfarm were below laboratory detection limits for BTEX constituents, and TPH-GRO and chloride concentrations were below applicable standards. Concentrations of TPH-DRO and TPH-MRO were above laboratory detection limits only in Cell #1, with 91 mg/kg and 140 mg/kg, respectively.

AES has scheduled the next quarterly treatment zone monitoring and sampling of evaporation pond monitoring wells to occur in April 2010. Due to the presence of dissolved phase chromium and lead in MW-1 and MW-4 during the September 2009 sampling event, AES recommends collecting additional groundwater samples for chromium and lead in each monitor well to better characterize these dissolved phase contaminants.

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

Sincerely,

Corwin Lameman
Geology Intern

Elizabeth D. McNally

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Summary of Groundwater Metals Analytical Results
Table 4. Soil BTEX and TPH Concentrations
Table 5. Soil Chloride Concentrations

Figures

Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
Figure 2. Treatment Zone Monitoring Locations

Appendices

Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

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TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (ºC)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (ºC)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664

NOTE: NE = Not Established

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW- 1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW- 1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	-
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	-
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	-
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	-
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	-
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	-
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	-
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	-
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

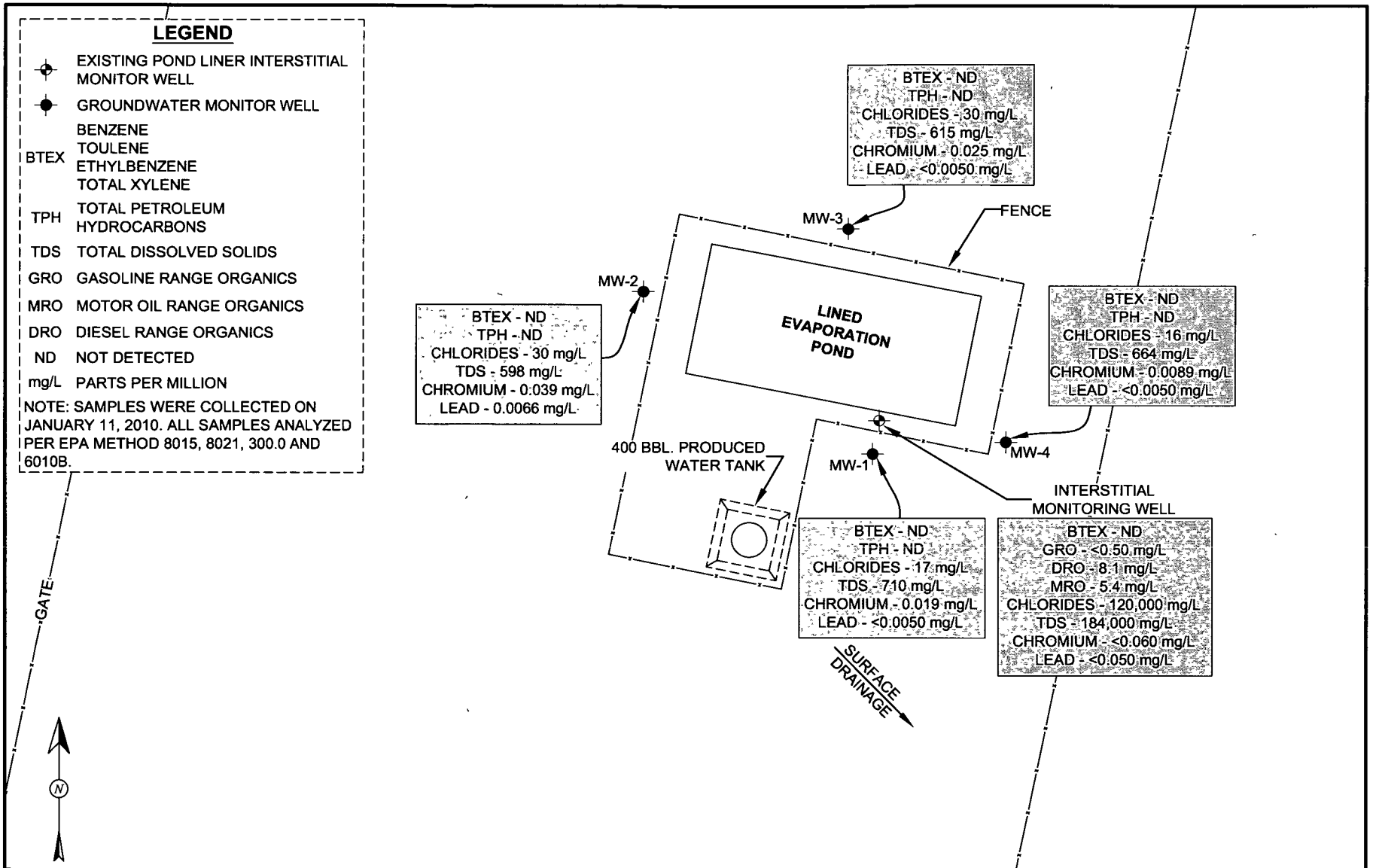
TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Chloride (mg/kg)
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #1	#1	11-Jan-10	2	22
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #2	#2	11-Jan-10	2	16
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28

TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
		NMOCD Soil Standard		**500**
Cell #3	#3	11-Jan-10	2	17

Note: * = Concentrations reported are in mg/L
NA = Not Analyzed



DRAWN BY: R. Kennemer	**DATE DRAWN:** April 28, 2008
REVISIONS BY: C. Lameman	**DATE REVISED:** February 22, 2010
CHECKED BY: D. Watson	**DATE CHECKED:** January 27, 2010
APPROVED BY: E. McNally	**DATE APPROVED:** February 22, 2010

FIGURE 1
BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS
NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

S:\ANIMAS 2000\2010 PROJECTS\BMG\LANDFARM\DRAWINGS\FIGURE 1 EVAPORATION POND AND MONITOR WELL LOCATIONS

SUMMARY OF QUARTERLY TREATMENT ZONE MONITORING JANUARY 2010

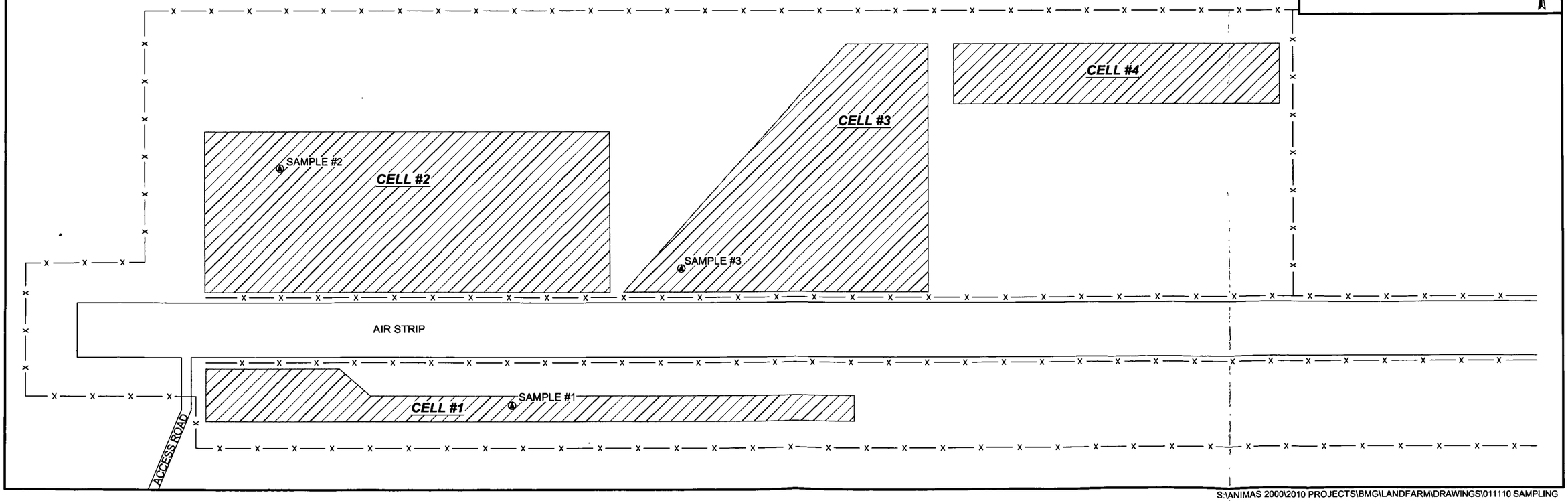
LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	#1	N 36°23.356' W 106°51.999'	01/11/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140	22
CELL #2	#2	N 36°23.422' W 106°52.003'	01/11/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	16
CELL #3	#3	N 36°23.353' W 106°51.911'	01/11/10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	17
CELL #4		NOT IN USE, NO SAMPLE										

FIGURE 2
BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY MONITORING LOCATIONS JANUARY 2010
NW1/4, NW1/4, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** May 29, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** January 26, 2010
CHECKED BY: D. Watson	**DATE CHECKED:** January 27, 2010
APPROVED BY: E. McNally	**DATE APPROVED:** February 22, 2010

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)



S:\ANIMAS 2000\2010 PROJECTS\BMG\LANDFARM\DRAWINGS\011110 SAMPLING

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: NW & CL

Project No.: AES 040605
Date: 1-11-10
Time: 1402
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1438	—	39.06	—	
MW-2	1504	—	40.13	—	
MW-3	1526	—	39.37	—	
MW-4	1410	—	39.86	—	
Interstitial	1552	—	9.77	—	

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis / C. Lameman
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.06 **Time:** 1438 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-11-10
Arrival Time: 1436
Air Temp: 40°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1440	11.44	0.773	4.27	7.23	48.3	0.25	
1442	11.57	0.769	3.46	7.19	48.1	0.5	
1447							Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

6010 Chromium and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis / C. Lameman
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.13 **Time:** 1504 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-11-10
Arrival Time: 1502
Air Temp: 40°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1506	10.78	0.1685	3.23	7.23	33.6	0.25	
1508	10.98	0.684	3.32	7.32	30.5	0.5	
1512							Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)
6010 Chromium and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis / C. Lameman
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.37 **Time:** 1526 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-11-10
Arrival Time: 1525
Air Temp: 40°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1527	11.27	0.662	5.47	7.45	58.9	0.25	
1528	11.61	0.669	4.78	7.40	45.9	0.5	
1532							Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)
6010 Chromium and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis / C. Lameman
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.86 **Time:** 1410 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 1-11-10
Arrival Time: 1402
Air Temp: 40°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1413	12.23	0.964	12.55	7.73	38.6	0.25	
1415	12.32	0.908	8.19	7.51	40.8	0.5	
1416	11.91	0.887	7.16	7.43	43.1	0.5	
1418	11.87	0.869	6.54	7.40	42.2	0.5	
1420	11.89	0.856	6.47	7.38	43.5	0.5	
1425	~	~	~	~	~	~	Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

6010 Chromium and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: Interstitial Well

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis / C. Cameron
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): ____ **Time:** ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.77 **Time:** 1552 *(taken prior to purging well)*
Final D.T.W. (ft): ____ **Time:** ____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** ____ **D.T.W.:** ____ **Thickness:** ____ **Time:** ____

Project No.: AES 040605
Date: 1-11-10
Arrival Time: 1551
Air Temp: 40°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 12.1

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1557	7.73	160.7	1.78	6.70	-13.7	0.25	
1602							Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

6010 Chromium and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: ____

Collected Samples Stored on Ice in Cooler: ____

Chain of Custody Record Complete: ____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, January 25, 2010

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm

Order No.: 1001170

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 1/14/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	1001170	**Collection Date:**	1/11/2010 2:47:00 PM
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/15/2010 4:49:18 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/15/2010 4:49:18 PM
Surr: DNOP	112	58-140		%REC	1	1/15/2010 4:49:18 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/21/2010 1:16:58 AM
Surr: BFB	90.6	55.2-107		%REC	1	1/21/2010 1:16:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/21/2010 1:16:58 AM
Toluene	ND	1.0		µg/L	1	1/21/2010 1:16:58 AM
Ethylbenzene	ND	1.0		µg/L	1	1/21/2010 1:16:58 AM
Xylenes, Total	ND	2.0		µg/L	1	1/21/2010 1:16:58 AM
Surr: 4-Bromofluorobenzene	95.1	65.9-130		%REC	1	1/21/2010 1:16:58 AM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	17	0.50		mg/L	1	1/21/2010 9:41:58 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	0.019	0.0060		mg/L	1	1/19/2010 1:48:26 PM
Lead	ND	0.0050		mg/L	1	1/19/2010 1:48:26 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	710	100		mg/L	1	1/18/2010 8:17:00 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	1001170	**Collection Date:**	1/11/2010 3:12:00 PM
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/15/2010 5:25:30 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/15/2010 5:25:30 PM
Surr: DNOP	116	58-140		%REC	1	1/15/2010 5:25:30 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/21/2010 1:47:15 AM
Surr: BFB	88.4	55.2-107		%REC	1	1/21/2010 1:47:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/21/2010 1:47:15 AM
Toluene	ND	1.0		µg/L	1	1/21/2010 1:47:15 AM
Ethylbenzene	ND	1.0		µg/L	1	1/21/2010 1:47:15 AM
Xylenes, Total	ND	2.0		µg/L	1	1/21/2010 1:47:15 AM
Surr: 4-Bromofluorobenzene	94.0	65.9-130		%REC	1	1/21/2010 1:47:15 AM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	30	5.0		mg/L	10	1/21/2010 10:51:36 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	0.039	0.0060		mg/L	1	1/19/2010 1:50:36 PM
Lead	0.0066	0.0050		mg/L	1	1/19/2010 1:50:36 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	598	40.0		mg/L	1	1/18/2010 8:17:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	1001170	**Collection Date:**	1/11/2010 3:32:00 PM
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/15/2010 6:01:42 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/15/2010 6:01:42 PM
Surr: DNOP	116	58-140		%REC	1	1/15/2010 6:01:42 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/21/2010 2:17:35 AM
Surr: BFB	94.6	55.2-107		%REC	1	1/21/2010 2:17:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/21/2010 2:17:35 AM
Toluene	ND	1.0		µg/L	1	1/21/2010 2:17:35 AM
Ethylbenzene	ND	1.0		µg/L	1	1/21/2010 2:17:35 AM
Xylenes, Total	ND	2.0		µg/L	1	1/21/2010 2:17:35 AM
Surr: 4-Bromofluorobenzene	101	65.9-130		%REC	1	1/21/2010 2:17:35 AM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	30	5.0		mg/L	10	1/21/2010 11:43:50 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	0.025	0.0060		mg/L	1	1/19/2010 1:52:49 PM
Lead	ND	0.0050		mg/L	1	1/19/2010 1:52:49 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	615	100		mg/L	1	1/18/2010 8:17:00 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	1001170	**Collection Date:**	1/11/2010 2:25:00 PM
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/15/2010 6:37:55 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/15/2010 6:37:55 PM
Surr: DNOP	116	58-140		%REC	1	1/15/2010 6:37:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	1/21/2010 2:47:51 AM
Surr: BFB	93.3	55.2-107		%REC	1	1/21/2010 2:47:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/21/2010 2:47:51 AM
Toluene	ND	1.0		µg/L	1	1/21/2010 2:47:51 AM
Ethylbenzene	ND	1.0		µg/L	1	1/21/2010 2:47:51 AM
Xylenes, Total	ND	2.0		µg/L	1	1/21/2010 2:47:51 AM
Surr: 4-Bromofluorobenzene	99.1	65.9-130		%REC	1	1/21/2010 2:47:51 AM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	16	5.0		mg/L	10	1/22/2010 12:01:15 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	0.0089	0.0060		mg/L	1	1/19/2010 1:55:02 PM
Lead	ND	0.0050		mg/L	1	1/19/2010 1:55:02 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	664	20.0		mg/L	1	1/18/2010 8:17:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	1001170	**Collection Date:**	1/11/2010 4:02:00 PM
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	8.1	1.0		mg/L	1	1/15/2010 7:14:07 PM
Motor Oil Range Organics (MRO)	5.4	5.0		mg/L	1	1/15/2010 7:14:07 PM
Surr: DNOP	107	58-140		%REC	1	1/15/2010 7:14:07 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	1/21/2010 3:18:03 AM
Surr: BFB	90.3	55.2-107		%REC	10	1/21/2010 3:18:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	10		µg/L	10	1/21/2010 3:18:03 AM
Toluene	ND	10		µg/L	10	1/21/2010 3:18:03 AM
Ethylbenzene	ND	10		µg/L	10	1/21/2010 3:18:03 AM
Xylenes, Total	ND	20		µg/L	10	1/21/2010 3:18:03 AM
Surr: 4-Bromofluorobenzene	96.3	65.9-130		%REC	10	1/21/2010 3:18:03 AM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	120000	5000		mg/L	10000	1/22/2010 4:22:24 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Chromium	ND	0.060		mg/L	10	1/19/2010 5:22:37 PM
Lead	ND	0.050		mg/L	10	1/19/2010 5:22:37 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	184000	200		mg/L	1	1/19/2010 8:35:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell-1
Lab Order:	1001170	**Collection Date:**	1/11/2010 12:30:00 PM
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-06	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	91	10		mg/Kg	1	1/18/2010 11:35:11 AM
Motor Oil Range Organics (MRO)	140	50		mg/Kg	1	1/18/2010 11:35:11 AM
Surr: DNOP	109	61.7-135		%REC	1	1/18/2010 11:35:11 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/20/2010 1:09:06 PM
Surr: BFB	89.1	66.9-118		%REC	1	1/20/2010 1:09:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	1/20/2010 1:09:06 PM
Toluene	ND	0.050		mg/Kg	1	1/20/2010 1:09:06 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/20/2010 1:09:06 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/20/2010 1:09:06 PM
Surr: 4-Bromofluorobenzene	95.5	64.7-120		%REC	1	1/20/2010 1:09:06 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	22	7.5		mg/Kg	5	1/18/2010 8:24:23 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell-2
Lab Order:	1001170	**Collection Date:**	1/11/2010 1:07:00 PM
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-07	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/18/2010 12:11:43 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/18/2010 12:11:43 PM
Surr: DNOP	96.1	61.7-135		%REC	1	1/18/2010 12:11:43 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/20/2010 2:09:42 PM
Surr: BFB	88.0	65.9-118		%REC	1	1/20/2010 2:09:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	1/20/2010 2:09:42 PM
Toluene	ND	0.050		mg/Kg	1	1/20/2010 2:09:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/20/2010 2:09:42 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/20/2010 2:09:42 PM
Surr: 4-Bromofluorobenzene	95.0	64.7-120		%REC	1	1/20/2010 2:09:42 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	16	7.5		mg/Kg	5	1/18/2010 8:41:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell-3
Lab Order:	1001170	**Collection Date:**	1/11/2010 1:41:00 PM
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-08	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/18/2010 12:47:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/18/2010 12:47:55 PM
Surr: DNOP	90.3	61.7-135		%REC	1	1/18/2010 12:47:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/20/2010 2:39:54 PM
Surr: BFB	98.3	65.9-118		%REC	1	1/20/2010 2:39:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	1/20/2010 2:39:54 PM
Toluene	ND	0.050		mg/Kg	1	1/20/2010 2:39:54 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/20/2010 2:39:54 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/20/2010 2:39:54 PM
Surr: 4-Bromofluorobenzene	106	64.7-120		%REC	1	1/20/2010 2:39:54 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	17	7.5		mg/Kg	5	1/18/2010 8:59:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TRIP BLANK
Lab Order:	1001170	**Collection Date:**	
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-09	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	1/21/2010 3:48:24 AM
Toluene	ND	1.0		µg/L	1	1/21/2010 3:48:24 AM
Ethylbenzene	ND	1.0		µg/L	1	1/21/2010 3:48:24 AM
Xylenes, Total	ND	2.0		µg/L	1	1/21/2010 3:48:24 AM
Surr: 4-Bromofluorobenzene	95.5	65.9-130		%REC	1	1/21/2010 3:48:24 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Methanol Blank
Lab Order:	1001170	**Collection Date:**	
Project:	BMG Landfarm	**Date Received:**	1/14/2010
Lab ID:	1001170-10	**Matrix:**	MEOH

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/21/2010 12:10:24 PM
Surr: BFB	84.8	65.9-118		%REC	1	1/21/2010 12:10:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	1/21/2010 12:10:24 PM
Toluene	ND	0.050		mg/Kg	1	1/21/2010 12:10:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/21/2010 12:10:24 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/21/2010 12:10:24 PM
Surr: 4-Bromofluorobenzene	90.8	64.7-120		%REC	1	1/21/2010 12:10:24 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm **Work Order:** 1001170

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1001170-08AMSD		*MSD*				Batch ID: **21163**		Analysis Date:		1/18/2010 9:34:01 PM	
Chloride	31.62	mg/Kg	7.5	15	16.59	100	53.9	146	3.28	20	
Sample ID: MB-21163		*MBLK*				Batch ID: **21163**		Analysis Date:		1/18/2010 4:20:39 PM	
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-21163		*LCS*				Batch ID: **21163**		Analysis Date:		1/18/2010 4:38:04 PM	
Chloride	14.01	mg/Kg	1.5	15	0	93.4	90	110			
Sample ID: 1001170-08AMS		*MS*				Batch ID: **21163**		Analysis Date:		1/18/2010 9:16:36 PM	
Chloride	30.60	mg/Kg	7.5	15	16.59	93.4	53.9	146			
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID: **R37057**		Analysis Date:		1/21/2010 1:17:05 PM	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID: **R37057**		Analysis Date:		1/21/2010 1:34:30 PM	
Chloride	5.016	mg/L	0.50	5	0	100	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-21141		*MBLK*				Batch ID: **21141**		Analysis Date:		1/17/2010 9:14:49 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-21141		*LCS*				Batch ID: **21141**		Analysis Date:		1/17/2010 9:50:30 PM	
Diesel Range Organics (DRO)	49.20	mg/Kg	10	50	0	98.4	64.6	116			
Sample ID: LCSD-21141		*LCSD*				Batch ID: **21141**		Analysis Date:		1/17/2010 10:26:11 PM	
Diesel Range Organics (DRO)	41.33	mg/Kg	10	50	0	82.7	64.6	116	17.4	17.4	
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-21130		*MBLK*				Batch ID: **21130**		Analysis Date:		1/15/2010 8:22:38 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-21130		*LCS*				Batch ID: **21130**		Analysis Date:		1/15/2010 8:58:36 AM	
Diesel Range Organics (DRO)	4.621	mg/L	1.0	5	0	92.4	74	157			
Sample ID: LCSD-21130		*LCSD*				Batch ID: **21130**		Analysis Date:		1/15/2010 9:34:36 AM	
Diesel Range Organics (DRO)	5.036	mg/L	1.0	5	0	101	74	157	8.61	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID: **R37045**		Analysis Date:		1/20/2010 9:06:28 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R37045**		Analysis Date:		1/20/2010 6:43:20 PM	
Gasoline Range Organics (GRO)	26.12	mg/Kg	5.0	25	0	104	77.7	135			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm **Work Order:** 1001170

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1001170-01A MSD		*MSD*				Batch ID:	**R37045**	Analysis Date:		1/21/2010 4:49:04 AM	
Gasoline Range Organics (GRO)	0.4738	mg/L	0.050	0.5	0	94.8	80	115	3.65	8.39	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37045**	Analysis Date:		1/20/2010 9:06:28 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37065**	Analysis Date:		1/21/2010 9:38:32 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R37045**	Analysis Date:		1/20/2010 6:43:20 PM	
Gasoline Range Organics (GRO)	0.5224	mg/L	0.050	0.5	0	104	80	115			
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R37065**	Analysis Date:		1/21/2010 6:44:25 PM	
Gasoline Range Organics (GRO)	0.4818	mg/L	0.050	0.5	0	96.4	80	115			
Sample ID: 1001170-01A MS		*MS*				Batch ID:	**R37045**	Analysis Date:		1/21/2010 4:18:45 AM	
Gasoline Range Organics (GRO)	0.4914	mg/L	0.050	0.5	0	98.3	80	115			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37045**	Analysis Date:		1/20/2010 9:06:28 AM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total'	ND	mg/Kg	0.10								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R37045**	Analysis Date:		1/20/2010 8:14:06 PM	
Benzene	0.9896	mg/Kg	0.050	1	0	99.0	78.8	132			
Toluene	0.9631	mg/Kg	0.050	1	0	96.3	78.9	112			
Ethylbenzene	0.9754	mg/Kg	0.050	1	0	97.5	69.3	125			
Xylenes, Total	2.932	mg/Kg	0.10	3	0	97.7	73	128			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm **Work Order:** 1001170

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1001170-02A MSD		*MSD*				Batch ID:	R37045	Analysis Date:		1/21/2010 5:49:44 AM	
Benzene	20.12	µg/L	1.0	20	0	101	85.9	113	7.54	27	
Toluene	19.66	µg/L	1.0	20	0	98.3	86.4	113	11.6	19	
Ethylbenzene	20.03	µg/L	1.0	20	0	100	83.5	118	9.58	10	
Xylenes, Total	60.23	µg/L	2.0	60	0	100	83.4	122	8.82	13	
1,2,4-Trimethylbenzene	19.17	µg/L	1.0	20	0	95.9	83.5	115	5.37	21	
1,3,5-Trimethylbenzene	18.99	µg/L	1.0	20	0	95.0	85.2	113	6.36	10	
Sample ID: 5ML RB		*MBLK*				Batch ID:	R37045	Analysis Date:		1/20/2010 9:06:28 AM	
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								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
Sample ID: 5ML RB		*MBLK*				Batch ID:	R37065	Analysis Date:		1/21/2010 9:38:32 AM	
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								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	R37045	Analysis Date:		1/20/2010 8:14:06 PM	
Benzene	19.79	µg/L	1.0	20	0	99.0	85.9	113			
Toluene	19.26	µg/L	1.0	20	0	96.3	86.4	113			
Ethylbenzene	19.51	µg/L	1.0	20	0	97.5	83.5	118			
Xylenes, Total	58.63	µg/L	2.0	60	0	97.7	83.4	122			
1,2,4-Trimethylbenzene	19.64	µg/L	1.0	20	0	98.2	83.5	115			
1,3,5-Trimethylbenzene	18.81	µg/L	1.0	20	0	94.1	85.2	113			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	R37065	Analysis Date:		1/21/2010 8:15:33 PM	
Benzene	19.98	µg/L	1.0	20	0	99.9	85.9	113			
Toluene	19.44	µg/L	1.0	20	0	97.2	86.4	113			
Ethylbenzene	19.76	µg/L	1.0	20	0	98.8	83.5	118			
Xylenes, Total	60.05	µg/L	2.0	60	0	100	83.4	122			
1,2,4-Trimethylbenzene	20.31	µg/L	1.0	20	0	102	83.5	115			
1,3,5-Trimethylbenzene	19.40	µg/L	1.0	20	0	97.0	85.2	113			
Sample ID: 1001170-02A MS		*MS*				Batch ID:	R37045	Analysis Date:		1/21/2010 5:19:23 AM	
Benzene	21.70	µg/L	1.0	20	0	108	85.9	113			
Toluene	22.09	µg/L	1.0	20	0	110	86.4	113			
Ethylbenzene	22.05	µg/L	1.0	20	0	110	83.5	118			
Xylenes, Total	65.78	µg/L	2.0	60	0	110	83.4	122			
1,2,4-Trimethylbenzene	20.23	µg/L	1.0	20	0	101	83.5	115			
1,3,5-Trimethylbenzene	20.24	µg/L	1.0	20	0	101	85.2	113			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm **Work Order:** 1001170

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-21166		*MBLK*				Batch ID:	**21166**	Analysis Date:	1/19/2010 1:22:12 PM		
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Sample ID: LCS-21166		*LCS*				Batch ID:	**21166**	Analysis Date:	1/19/2010 1:24:25 PM		
Chromium	0.4962	mg/L	0.0060	0.5	0	99.2	80	120			
Lead	0.4919	mg/L	0.0050	0.5	0	98.4	80	120			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MBLK-21135		*MBLK*				Batch ID:	**21135**	Analysis Date:	1/18/2010 8:17:00 AM		
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: MBLK-21144		*MBLK*				Batch ID:	**21144**	Analysis Date:	1/19/2010 8:35:00 AM		
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS1-21135		*LCS*				Batch ID:	**21135**	Analysis Date:	1/18/2010 8:17:00 AM		
Total Dissolved Solids	1026	mg/L	20.0	1000	0	103	80	120			
Sample ID: LCS1-21144		*LCS*				Batch ID:	**21144**	Analysis Date:	1/19/2010 8:35:00 AM		
Total Dissolved Solids	1023	mg/L	20.0	1000	0	102	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL | Date Received: 1/14/2010

Work Order Number 1001170 | Received by: TLS

Checklist completed by: _____ 1/14/10 | Sample ID labels checked by: _____

Signature | Date | Initials

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	1.3°	<6° C Acceptable If given sufficient time to cool.		

Number of preserved bottles checked for pH: 5

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

Mailing Address: 624 E. Comanche Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: BMG Landfarm

Project #: 040605

Project Manager: Ross Kennemer

Sampler: N. Willis / C. Lamerman

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 100170	BTEX (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides (300.0)	TDS (SM 2540 C)	Chromium + Lead (6010)		Air Bubbles (Y or N)
1-11-10	1447	H_2O	MW-1	6-40mL glass 2-500mL plastic	5-HCl, 1-unpres. 2-HNO_3, 1-unpres.	1	X		X									X	X	X		
	1512		MW-2			2	X		X									X	X	X		
	1532		MW-3			3	X		X									X	X	X		
	1425		MW-4			4	X		X									X	X	X		
	1602	H_2O	Interstitial Well	6-40mL glass 2-500mL plastic	5-HCl, 1-unpres. 1-HNO_3, 1-unpres.	5	X		X									X	X	X		
	1230	Soil	Cell - 1	MeOH Kit 1-40 oz Jar	MeOH unpres.	6	X		X									X				
	1307	Soil	Cell - 2	↓	↓	7	X		X									X				
1-11-10	1341	Soil	Cell - 3	MeOH Kit 1-40 oz Jar	MeOH unpres	8	X		X									X				
		Air 1/14/10	Trip Blanks	2/40mL ~~Meoh~~ 2-glass	HCl ~~MeOH~~	9	X		X													
		Air 1/14/10	MeOH Blank		meoh	10	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
1-11-10	1845	Cari Lamerman	Jami Ross	1-11-10	1946
Date:	Time:	Relinquished by:	Received by:	Date	Time
1-13-10	1630	Cari Lamerman		1/14/10	940

Remarks:

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

BMG

BENSON-MONTIN-GREER DRILLING CORP

4900 College Boulevard Farmington, NM 87402 Office: 505.325.8874 Fax: 505.327.9207

March 2, 2010

Mr. Brad Jones
NMOCD Environment Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2009 ANNUAL REPORT CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY, PERMIT No. NM-02-0004
Section 20, Township 25 North, Range 1 East, Rio Arriba County

Dear Mr. Jones:

Please find enclosed the referenced annual report for 2009. As you may recall, a leak in the evaporation pond's primary liner was discovered in April of 2008. All water was removed from the pond and the liner replaced. Monitoring wells were installed and those testing results are included with this report. The pond was returned to use in November of 2008.

Detailed quarterly reports have been sent to your office during 2009 that included figures of sample locations, chains of custody, and laboratory analyses. Enclosed are Summary Tables of those sample results for 2009 and the past several years.

If you have any questions please contact me at 505-325-8874 or by email at: mikedimond@bmgdrilling.com.

Sincerely,

Mike Dimond

Mike Dimond
President

Cc: NMOCD, Aztec; File

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (ºC)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (ºC)	Specific Conduct (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	-43.5

NM - Not Measured

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**NE**	**NE**
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664

NOTE: NE = Not Established

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW- 1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW- 1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	-
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	-
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	-
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	-
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	-
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	-
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	-
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	-
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
Laboratory Analytyical Method					8021/8260B				8015M/8015B		

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Chloride (mg/kg)
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #1	#1	11-Jan-10	2	22
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #2	#2	11-Jan-10	2	16
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28

TABLE 5

Soil Chloride Concentrations

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			300.0
		NMOCD Soil Standard		500
Cell #3	#3	11-Jan-10	2	17

Note: * = Concentrations reported are in mg/L

NA = Not Analyzed

AES | Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

December 2, 2009

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the September 2009 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On September 11 and 16, 2009, Animas Environmental Services, LLC (AES), completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off of Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that, although the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner on about September 15, 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on September 16, 2009. Groundwater samples were collected from monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0;
- Total Dissolved Solids (TDS) – SM 2540C;
- RCRA 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) – EPA 6010 and 7470 (annually).

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation-reduction potential (ORP) measurements for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 11.26°C (MW-2) to 20.87°C (IW), and groundwater pH ranged from 6.77 (IW) to 7.34 (MW-3). Conductivity ranged from 1.421 mS (MW-3) to 335.5 mS (IW), and ORP was between -115.9 mV (IW) and 51.3 mV (MW-4). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the September 2009 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, are below the New Mexico Water Quality Control Commission (WQCC) standards. Each of the monitor wells had TPH concentrations below laboratory detection limits, while IW had a total TPH concentration of 15 mg/L. Chloride and TDS concentrations were above laboratory detection limits in each of the samples.

For RCRA 8 Metals, all wells sampled were below laboratory detection limits or well below applicable standards for arsenic, cadmium, mercury, selenium, and silver. The Interstitial Well had barium and lead concentrations above applicable WQCC standards, while MW-1 and MW-4 had chromium concentrations above the applicable WQCC standards. The results have been summarized as follows:

- Chloride: IW (130,000 mg/L), MW-1 (22 mg/L), MW-2 (32 mg/L), MW-3 (33 mg/L), and MW-4 (19 mg/L);
- TDS: IW (179,000 mg/L), MW-1 (650 mg/L), MW-2 (590 mg/L), MW-3 (580 mg/L), and MW-4 (720 mg/L);
- Barium: IW (74 mg/L);
- Chromium: MW-1 (0.067 mg/L) and MW-4 (0.10 mg/L), and
- Lead: IW (0.37 mg/L).

The analytical results for the groundwater samples collected during the September 2009 sampling event have been tabulated and are presented in Tables 2 and 3 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from 2 feet below ground surface in each of Cell #1, Cell #2, and Cell # 3. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH per EPA Method 8015B;
- pH per SM4500-H+B (annually);
- Specific conductance (annually);
- Chlorides, fluorides, and sulfates per EPA Method 300.0 (annually);
- RCRA 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) per EPA Method 6010B and 7471 (annually).

Samples for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES' observations of the treatment cells at the time of sample collection. Treatment Cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Cell #4 is not in use, and therefore was not sampled. Results are summarized as follows:

- BTEX , TPH-GRO, fluoride, silver, mercury, and selenium concentrations were below laboratory detection limits in each cell;
- TPH-DRO concentrations above the detection limit (10 mg/kg) were reported in Cell #1 (160 mg/kg) and Cell #3 (14 mg/kg). Reported TPH-MRO concentrations ranged from below laboratory detection limits (50 mg/kg) in Cell #2 to 300 mg/kg (Cell #1);
- Chloride concentrations were reported below the applicable NMOCD standard (500 mg/kg) in each of the samples.
- Sulfate concentrations varied from 23 mg/kg (Cell #1) to 140 mg/kg (Cell #3);
- Arsenic concentrations ranged from 1.9 mg/L (Cell #2) to 2.6 mg/L (Cell #3);
- Barium concentrations ranged from 48 mg/kg (Cell #2) to 120 mg/kg (Cell #3);
- Cadmium concentrations ranged from below the laboratory detection limit (0.25 mg/L) in (Cell #2) to 0.48 mg/L (Cell # 3);
- Chromium concentrations ranged from 3.8 mg/kg (Cell #2) to 14 mg/kg (Cell #3);
- Lead concentrations ranged from 2.8 mg/kg (Cell #2) to 6.9 mg/kg (Cell #3);

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented on Figure 2. Laboratory analytical results are summarized in Tables 4 through 7, and laboratory reports are presented in Appendix A.

3.0 Conclusion and Recommendations

Based on the results of the September 2009 sampling event at the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH. Groundwater samples from MW-1 through MW-4 were also below applicable WQCC standards for arsenic, barium, cadmium, lead, mercury, selenium, and silver. However, samples from MW-1 (0.067 mg/L) and MW-4 (0.10 mg/L) had reported concentrations for chromium above the WQCC standard (0.05

mg/L). Groundwater samples from the Interstitial Well had concentrations reported above WQCC standards for both barium and lead.

Cells #1 through #3 were sampled in September 2009. Soil analytical results from treatment zone monitoring conducted within the landfarm were below laboratory detection limits for BTEX constituents and TPH-GRO and were below applicable standards for chlorides. Concentrations of TPH-DRO, sulfate, arsenic, barium, chromium, and lead were above laboratory detection limits in each treatment cell.

AES has scheduled the next quarterly treatment zone monitoring and sampling of evaporation pond monitoring wells to occur in December 2009. Because of the presence of dissolved phase chromium in MW-1 and MW-4, AES recommends quarterly sampling for chromium in all wells to better characterize dissolved phase chromium.

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

Sincerely,

Corwin Lameman
Geology Intern

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Summary of Groundwater Metals Analytical Results
Table 4. Soil BTEX and TPH Concentrations
Table 5. Soil Chloride Concentrations
Table 6. Summary of Major Cations/Anions, Annual Treatment Zone Monitoring
Table 7. Soil of Metals Annual Treatment Zone Monitoring

Figures

Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
Figure 2. Treatment Zone Monitoring Locations

Appendices

Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

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TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (ºC)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (ºC)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3

NM - Not Measured

TBS - To Be Surveyed

TABLE 2

Summary of Groundwater Analytical Results

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Well ID	*Date Sampled*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethyl-benzene (µg/L)*	*Total Xylenes (µg/L)*	*GRO (mg/L)*	*DRO (mg/L)*	*MRO (mg/L)*	*Chlorides (mg/L)*	*TDS (mg/L)*
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		*10*	*750*	*750*	*620*	*NE*	*NE*	*NE*	*NE*	*NE*
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analytical Method		*6010*	*6010*	*6010*	*6010*	*6010*	*7470*	*6010*	*6010*
NM WQCC STANDARD		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.05*
Interstitial Well	21-Jul-08	<1.0	**240**	**0.88**	<0.30	**0.35**	<0.00080	<2.5	<0.25
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW- 1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	0.052	<0.00020	<0.020	<0.010

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	-
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	-
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	-
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	-
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	-
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	-
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	-
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	-
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	-
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	-
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	-
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400

TABLE 4
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

TABLE 5
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
	NMOCD Soil Standard			**500**
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #1	#1	11-Sep-09	2	10
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #2	#2	11-Sep-09	2	8.9
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22
Cell #3	#3	11-Sep-09	2	28

Note: * = Concentrations reported are in mg/L
NA = Not Analyzed

TABLE 6
Summary of Major Cations/Anions
Annual Treatment Zone Monitoring
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

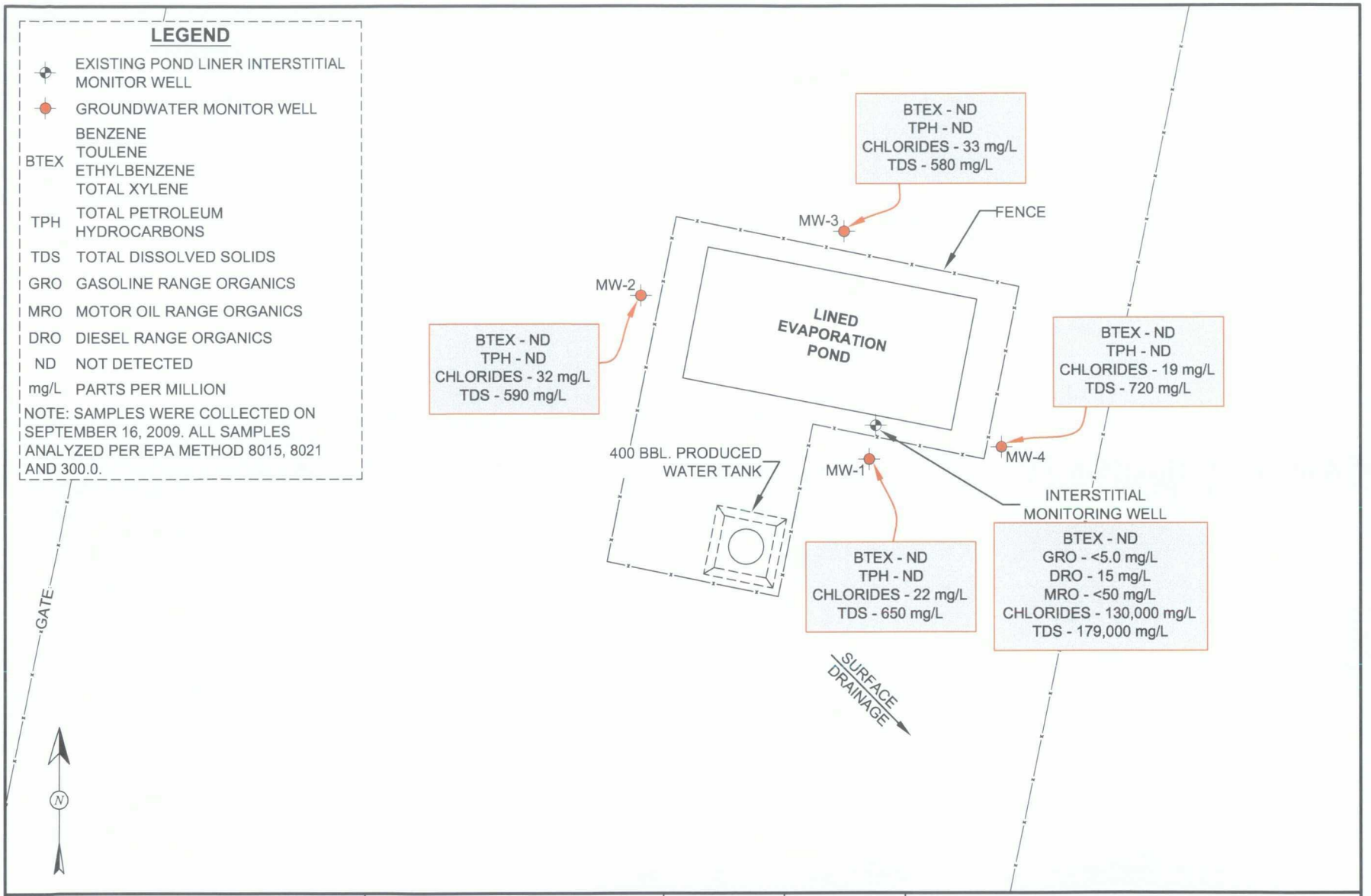
Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*pH*	*Spec. Cond. (umhos/cm)*	*Sulfate as SO_4 (mg/kg)*	*Flouride (mg/kg)*	*Calcium (mg/kg)*	*Magnesium (mg/kg)*	*Sodium (mg/kg)*	*Potassium (mg/kg)*
Cell #1	#1	6/7/2006	2.5	7.7	42.8	13.2	NA	2,780	1,340	<50	NA
Cell #1	#1	5/22/2007	3	7.37	NA	20.3*	4.26*	8,000	2,820	64	2460
Cell #1	#1	7/21/2008	2	7.67	360	8.8*	<1.5*	NA	NA	NA	NA
Cell #1	#1	9/11/2009	2	7.65	370	23	<1.5	3,000	1,300	<25	860
Cell #2	#2	6/7/2006	2.5	7.7	64.1	9.31	NA	1,950	979	<50	NA
Cell #2	#2	5/22/2007	3	7.59	NA	19.9*	4.94*	6,690	2,230	64	1650
Cell #2	#2	7/21/2008	2	7.97	650	130*	2.4*	NA	NA	NA	NA
Cell #2	#2	9/11/2009	2	7.67	150	26	<1.5	940	710	<25	470
Cell #3	#3	6/7/2006	2.5	9.1	54.2	23.5	2.92	2,140	1,110	<50	NA
Cell #3	#3	5/22/2007	3	7.30	NA	45.2*	5.01*	5,570	2,660	70	2620
Cell #3	#3	7/21/2008	2	7.53	1,200	2,200*	<1.5*	NA	NA	NA	NA
Cell #3	#3	9/11/2009	2	7.32	870	140	<1.5	3,000	2,400	76	2400

Note: * = Concentrations reported are in mg/kg
NA = Not Analyzed

TABLE 7
Summary of Metals
Annual Treatment Zone Monitoring
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Silver (mg/kg)*	*Arsenic (mg/kg)*	*Barium (mg/kg)*	*Cadmium (mg/kg)*	*Chromium (mg/kg)*	*Mercury (mg/kg)*	*Lead (mg/kg)*	*Selenium (mg/kg)*
Cell #1	#1	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #1	#1	5/22/2007	3	<0.50	5.4	169	0.26	33.9	<0.033	11.90	<4.0
Cell #1	#1	7/21/2008	2	<1.2	<12	81	<0.50	7.4	<0.033	5.2	<12
Cell #1	#1	9/11/2009	2	<0.50	2.0	50	0.27	5.9	<0.020	3.5	<1.0
Cell #2	#2	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #2	#2	5/22/2007	3	<0.50	5.3	171	0.34	54.5	<0.033	10.60	<4.0
Cell #2	#2	7/21/2008	2	<1.2	<12	92	<0.50	9.2	<0.033	7.3	<12
Cell #2	#2	9/11/2009	2	<0.50	1.9	48	<0.25	3.8	<0.020	2.8	<1.0
Cell #3	#3	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #3	#3	5/22/2007	3	<0.50	4.9	181	0.37	36.9	<0.033	13.90	<4.0
Cell #3	#3	7/21/2008	2	<1.2	<12	77	<0.50	7.2	0.033	11	<12
Cell #3	#3	9/11/2009	2	<0.50	2.6	120	0.48	14	<0.020	6.9	<1.0

Note: * = Concentrations reported are in mg/kg
NA = Not Analyzed



DRAWN BY: R. Kennemer	DATE DRAWN: April 28, 2008
REVISIONS BY: C. Lameman	DATE REVISED: October 9, 2009
CHECKED BY: D. Watson	DATE CHECKED: October 9, 2009
APPROVED BY: E. McNally	DATE APPROVED: December 1, 2009

Animas Environmental Services, LLC

FIGURE 1
BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS
NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

S:\ANIMAS 2000\2009 PROJECTS\BMG\LANDFARM\DRAWINGS\FIGURE 1 EVAPORATION POND AND MONITOR WELL LOCATIONS

SUMMARY OF QUARTERLY TREATMENT ZONE MONITORING SEPTEMBER 2009

LANDFARM I.D.	SAMPLE I.D.	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	#1	N 36°23.380' W 106°52.067'	09/11/09	2	<0.050	<0.050	<0.050	<0.10	<5.0	**160**	**300**	**10**
CELL #2	#2	N 36°23.404' W 106°52.004'	09/11/09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	**8.9**
CELL #3	#3	N 36°23.355' W 106°51.869'	09/11/09	2	<0.050	<0.050	<0.050	<0.10	<5.0	**14**	**51**	**28**
CELL #4		NOT IN USE, NO SAMPLE										

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

N

AES
Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: May 29, 2008
REVISIONS BY: C. Lameman	DATE REVISED: October 9, 2009
CHECKED BY: D. Watson	DATE CHECKED: October 9, 2009
APPROVED BY: E. McNally	DATE APPROVED: December 1, 2009

FIGURE 2
BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY MONITORING LOCATIONS SEPTEMBER 2009
NW1/4, NW1/4, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

S:\ANIMAS 2000\2009 PROJECTS\BMG\LANDFARM\DRAWINGS\091109 SAMPLING

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. Willis

Project No.: AES 040605
Date: 9-16-09
Time: 1255
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1413	—	38.91	—	
MW-2	1450	—	39.97	—	
MW-3	1517	—	39.21	—	
MW-4	1320	—	39.72	—	
Interstitial	1255	—	9.77	—	

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 38.91 **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 9-16-09
Arrival Time: 1413
Air Temp: 64°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1418	12.35	1.719	3.85	7.27	67.5	0.25	
1421	12.03	1.700	3.10	7.11	55.4	0.5	
1424	11.93	1.686	2.87	7.05	48.1	0.5	
1427	11.84	1.678	3.12	7.05	47.7	0.5	
1430	11.88	1.669	3.08	7.06	47.1	0.5	low Yield
1441	—	—	—	—	—	—	Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (5 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.97 **Time:** 1452 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 9-16-09
Arrival Time: 1450
Air Temp: 64°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1454	11.74	1.510	4.73	7.33	52.5	0.25	
1457	11.20	1.502	5.10	7.37	47.1	0.5	
1500	11.21	1.498	4.18	7.34	36.5	0.5	
1503	11.26	1.494	3.62	7.32	31.3	0.5	low Yield
1508							Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (5 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.21 **Time:** 1519 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 9-16-09
Arrival Time: 1517
Air Temp: 65°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1521	12.39	1.451	5.21	7.57	52.1	0.25	
1524	12.33	1.432	3.26	7.36	31.2	0.5	
1527	12.15	1.429	3.62	7.32	31.4	0.5	
1530	12.17	1.424	3.85	7.31	31.5	0.5	
1533	12.39	1.419	4.13	7.32	32.3	0.5	
1536	12.26	1.421	4.87	7.34	35.8	0.5	low Yield
1541	—						Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (5 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals and Mercury (1 - 500 mL plastic w/ HNO_3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.72 **Time:** 13.33 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 9-16-09
Arrival Time: 1320
Air Temp: 65°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1336	14.08	2.950	4.66	7.43	26.6	0.25	
1339	12.91	1.904	4.39	7.36	37.3	0.5	
1342	12.50	1.812	4.20	7.29	47.9	0.5	
1345	12.25	1.797	4.49	7.26	51.2	0.5	
1348	12.26	1.769	4.47	7.23	52.9	0.5	
1351	12.37	1.749	4.36	7.22	55.2	0.5	
1354	12.31	1.731	4.65	7.22	51.3	0.5	
1359	—	—	—	—	—	—	Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (5 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: Interstitial Well

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.77 **Time:** 1259 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 9-16-09
Arrival Time: 1255
Air Temp: 64°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 12.1

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1304	20.87	335.5	0.11	6.77	-115.9	0.25	
1309							Samples Collected

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

BTEX/GRO/DRO per EPA Method 8021/8015 (5 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

RCRA 8 Metals and Mercury (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

Chain-of-Custody Record

Client: Animas Environmental Services LLC

Mailing Address: 624 E Comanche Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: BMG Landfarm

Project #:

Project Manager: Ross Kennemer

Sampler: Nathan Willis

On Ice: ☐ Yes ☐ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + ~~MTBE~~ + ~~TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals (6010/7470)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Cations/anions	Chlorides 300.0	pH	Specific Conductivity	Air Bubbles (Y or N)
11-09	1350	soil	cell #1	MeOH Kit 1-4oz jar	MeOH/ice		X		X				X					X	X	X	X	
11-09	1333		cell #2	1-8oz jar	—		X		X				X					X	X	X	X	
11-09	1313		cell #3				X		X				X					X	X	X	X	
			MeOH Blank																			

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/4/09	1604	Nathan Willis			
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:
cations/anions = calcium, magnesium, sodium, potassium, sulfate as SO4, Fluoride
RCRA 8 metals = Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver

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

Chain-of-Custody Record

Client: Animas Environmental Services, LLC.

Mailing Address: 624 E. Comanche Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: BMG Landfarm

Project #: 040605

Project Manager: Ross Kennemer

Sampler: Nathan Willis

On Ice: ☒ Yes ☐ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals 6010/7410 Hg	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Chlorides	SM 2540c TDS			Air Bubbles (Y or N)
9-16-09	1441	H_2O	MW-1	5-40mL VOA 1-40mL VOA	HCl —		X		X				X					X	X			
	1508		MW-2	1-500mL plastic 1-500mL plastic	— H_2SO_4		X		X				X					X	X			
	1541		MW-3				X		X				X					X	X			
	1359		MW-4				X		X				X					X	X			
↓	1309	↓	Interstitial Well	↓	↓		X		X				X					X	X			

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/17/09	0830	Nathan Willis	Deborah Watson	9/17/09	0830
9/18/09	1620	Deborah Watson			

Remarks:
Cations/anions = calcium, magnesium, sodium potassium, sulfate as SO_4, Flouride
RCR8 Metals = Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, October 05, 2009

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm

Order No.: 0909399

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 9/19/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

For Andy Freeman, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Oct-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	0909399	**Collection Date:**	9/16/2009 2:41:00 PM
Project:	BMG Landfarm	**Date Received:**	9/19/2009
Lab ID:	0909399-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/23/2009 8:24:54 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/23/2009 8:24:54 PM
Surr: DNOP	116	58-140		%REC	1	9/23/2009 8:24:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/27/2009 4:22:07 AM
Surr: BFB	88.6	55.2-107		%REC	1	9/27/2009 4:22:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	9/27/2009 4:22:07 AM
Toluene	ND	1.0		µg/L	1	9/27/2009 4:22:07 AM
Ethylbenzene	ND	1.0		µg/L	1	9/27/2009 4:22:07 AM
Xylenes, Total	ND	2.0		µg/L	1	9/27/2009 4:22:07 AM
Surr: 4-Bromofluorobenzene	88.6	65.9-130		%REC	1	9/27/2009 4:22:07 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.34	0.10		mg/L	1	9/26/2009 1:19:11 AM
Chloride	22	1.0		mg/L	10	9/26/2009 1:36:35 AM
Sulfate	190	5.0		mg/L	10	9/26/2009 1:36:35 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	650	100		mg/L	1	9/24/2009 3:16:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Oct-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	0909399	**Collection Date:**	9/16/2009 3:08:00 PM
Project:	BMG Landfarm	**Date Received:**	9/19/2009
Lab ID:	0909399-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/23/2009 9:00:41 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/23/2009 9:00:41 PM
Surr: DNOP	121	58-140		%REC	1	9/23/2009 9:00:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/27/2009 4:52:19 AM
Surr: BFB	89.5	55.2-107		%REC	1	9/27/2009 4:52:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	9/27/2009 4:52:19 AM
Toluene	ND	1.0		µg/L	1	9/27/2009 4:52:19 AM
Ethylbenzene	ND	1.0		µg/L	1	9/27/2009 4:52:19 AM
Xylenes, Total	ND	2.0		µg/L	1	9/27/2009 4:52:19 AM
Surr: 4-Bromofluorobenzene	90.0	65.9-130		%REC	1	9/27/2009 4:52:19 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.37	0.10		mg/L	1	9/26/2009 1:53:59 AM
Chloride	32	1.0		mg/L	10	9/26/2009 2:11:24 AM
Sulfate	150	5.0		mg/L	10	9/26/2009 2:11:24 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	590	100		mg/L	1	9/24/2009 3:16:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Oct-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	0909399	**Collection Date:**	9/16/2009 3:41:00 PM
Project:	BMG Landfarm	**Date Received:**	9/19/2009
Lab ID:	0909399-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/23/2009 9:36:22 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/23/2009 9:36:22 PM
Surr: DNOP	118	58-140		%REC	1	9/23/2009 9:36:22 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/27/2009 5:22:29 AM
Surr: BFB	86.0	55.2-107		%REC	1	9/27/2009 5:22:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	9/27/2009 5:22:29 AM
Toluene	ND	1.0		µg/L	1	9/27/2009 5:22:29 AM
Ethylbenzene	ND	1.0		µg/L	1	9/27/2009 5:22:29 AM
Xylenes, Total	ND	2.0		µg/L	1	9/27/2009 5:22:29 AM
Surr: 4-Bromofluorobenzene	85.4	65.9-130		%REC	1	9/27/2009 5:22:29 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.39	0.10		mg/L	1	9/26/2009 2:28:48 AM
Chloride	33	1.0		mg/L	10	9/26/2009 2:46:13 AM
Sulfate	100	5.0		mg/L	10	9/26/2009 2:46:13 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	580	100		mg/L	1	9/24/2009 3:16:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Oct-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	0909399	**Collection Date:**	9/16/2009 1:59:00 PM
Project:	BMG Landfarm	**Date Received:**	9/19/2009
Lab ID:	0909399-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/23/2009 10:12:03 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	9/23/2009 10:12:03 PM
Surr: DNOP	120	58-140		%REC	1	9/23/2009 10:12:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/27/2009 5:52:44 AM
Surr: BFB	92.9	55.2-107		%REC	1	9/27/2009 5:52:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	9/27/2009 5:52:44 AM
Toluene	ND	1.0		µg/L	1	9/27/2009 5:52:44 AM
Ethylbenzene	ND	1.0		µg/L	1	9/27/2009 5:52:44 AM
Xylenes, Total	ND	2.0		µg/L	1	9/27/2009 5:52:44 AM
Surr: 4-Bromofluorobenzene	94.8	65.9-130		%REC	1	9/27/2009 5:52:44 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.34	0.10		mg/L	1	9/26/2009 3:03:37 AM
Chloride	19	0.10		mg/L	1	9/26/2009 3:03:37 AM
Sulfate	190	5.0		mg/L	10	9/26/2009 3:55:52 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	720	200		mg/L	1	9/24/2009 3:16:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Oct-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	0909399	**Collection Date:**	9/16/2009 1:09:00 PM
Project:	BMG Landfarm	**Date Received:**	9/19/2009
Lab ID:	0909399-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	15	10		mg/L	1	9/23/2009 10:47:46 PM
Motor Oil Range Organics (MRO)	ND	50		mg/L	1	9/23/2009 10:47:46 PM
Surr: DNOP	114	58-140		%REC	1	9/23/2009 10:47:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	9/28/2009 2:02:19 PM
Surr: BFB	88.7	55.2-107		%REC	10	9/28/2009 2:02:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	10		µg/L	10	9/28/2009 2:02:19 PM
Toluene	ND	10		µg/L	10	9/28/2009 2:02:19 PM
Ethylbenzene	ND	10		µg/L	10	9/28/2009 2:02:19 PM
Xylenes, Total	ND	20		µg/L	10	9/28/2009 2:02:19 PM
Surr: 4-Bromofluorobenzene	89.6	65.9-130		%REC	10	9/28/2009 2:02:19 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	ND	1000		mg/L	10000	9/26/2009 4:48:05 AM
Chloride	130000	1000		mg/L	10000	9/26/2009 4:48:05 AM
Sulfate	27	5.0		mg/L	10	9/26/2009 4:13:16 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MMS**
Total Dissolved Solids	179000	40.0		mg/L	1	9/24/2009 3:16:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *05-Oct-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Trip Blank
Lab Order:	0909399	**Collection Date:**	
Project:	BMG Landfarm	**Date Received:**	9/19/2009
Lab ID:	0909399-06	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/27/2009 11:25:51 AM
Surr: BFB	84.3	55.2-107		%REC	1	9/27/2009 11:25:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	9/27/2009 11:25:51 AM
Toluene	ND	1.0		µg/L	1	9/27/2009 11:25:51 AM
Ethylbenzene	ND	1.0		µg/L	1	9/27/2009 11:25:51 AM
Xylenes, Total	ND	2.0		µg/L	1	9/27/2009 11:25:51 AM
Surr: 4-Bromofluorobenzene	84.2	65.9-130		%REC	1	9/27/2009 11:25:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

September 27, 2009

Date Received : September 22, 2009
Description :

Sample ID : MW-1

Collected By :
Collection Date : 09/16/09 14:41

ESC Sample # : L423382-01

Site ID :

Project # : 0909399

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	09/24/09	1
Arsenic	0.020	0.020	mg/l	6010B	09/25/09	1
Barium	0.93	0.0050	mg/l	6010B	09/25/09	1
Cadmium	BDL	0.0050	mg/l	6010B	09/25/09	1
Calcium	130	0.50	mg/l	6010B	09/25/09	1
Chromium	0.067	0.010	mg/l	6010B	09/25/09	1
Lead	0.045	0.0050	mg/l	6010B	09/25/09	1
Magnesium	73.	0.10	mg/l	6010B	09/25/09	1
Potassium	19.	0.50	mg/l	6010B	09/25/09	1
Selenium	BDL	0.020	mg/l	6010B	09/25/09	1
Silver	BDL	0.010	mg/l	6010B	09/25/09	1
Sodium	100	0.50	mg/l	6010B	09/25/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 09/27/09 09:19 Printed: 09/27/09 09:20

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

September 27, 2009

Date Received : September 22, 2009
Description :

ESC Sample # : L423382-02

Site ID :

Sample ID : MW-2

Project # : 0909399

Collected By :
Collection Date : 09/16/09 15:08

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	09/24/09	1
Arsenic	BDL	0.020	mg/l	6010B	09/25/09	1
Barium	0.48	0.0050	mg/l	6010B	09/25/09	1
Cadmium	BDL	0.0050	mg/l	6010B	09/25/09	1
Calcium	110	0.50	mg/l	6010B	09/25/09	1
Chromium	0.048	0.010	mg/l	6010B	09/25/09	1
Lead	0.026	0.0050	mg/l	6010B	09/25/09	1
Magnesium	60.	0.10	mg/l	6010B	09/25/09	1
Potassium	14.	0.50	mg/l	6010B	09/25/09	1
Selenium	BDL	0.020	mg/l	6010B	09/25/09	1
Silver	BDL	0.010	mg/l	6010B	09/25/09	1
Sodium	28.	0.50	mg/l	6010B	09/25/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 09/27/09 09:19 Printed: 09/27/09 09:20

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SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

September 27, 2009

Date Received : September 22, 2009
Description :

ESC Sample # : L423382-03

Sample ID : MW-3

Site ID :

Project # : 0909399

Collected By :
Collection Date : 09/16/09 15:41

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	09/24/09	1
Arsenic	BDL	0.020	mg/l	6010B	09/25/09	1
Barium	0.40	0.0050	mg/l	6010B	09/25/09	1
Cadmium	BDL	0.0050	mg/l	6010B	09/25/09	1
Calcium	100	0.50	mg/l	6010B	09/25/09	1
Chromium	0.045	0.010	mg/l	6010B	09/25/09	1
Lead	0.026	0.0050	mg/l	6010B	09/25/09	1
Magnesium	55.	0.10	mg/l	6010B	09/25/09	1
Potassium	12.	0.50	mg/l	6010B	09/25/09	1
Selenium	BDL	0.020	mg/l	6010B	09/25/09	1
Silver	BDL	0.010	mg/l	6010B	09/25/09	1
Sodium	26.	0.50	mg/l	6010B	09/25/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 09/27/09 09:19 Printed: 09/27/09 09:20

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Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

September 27, 2009

Date Received : September 22, 2009
Description :

ESC Sample # : L423382-04

Sample ID : MW-4

Site ID :

Collected By :
Collection Date : 09/16/09 13:59

Project # : 0909399

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	09/24/09	1
Arsenic	0.024	0.020	mg/l	6010B	09/25/09	1
Barium	0.68	0.0050	mg/l	6010B	09/25/09	1
Cadmium	BDL	0.0050	mg/l	6010B	09/25/09	1
Calcium	130	0.50	mg/l	6010B	09/25/09	1
Chromium	0.10	0.010	mg/l	6010B	09/25/09	1
Lead	0.052	0.0050	mg/l	6010B	09/25/09	1
Magnesium	75.	0.10	mg/l	6010B	09/25/09	1
Potassium	21.	0.50	mg/l	6010B	09/25/09	1
Selenium	BDL	0.020	mg/l	6010B	09/25/09	1
Silver	BDL	0.010	mg/l	6010B	09/25/09	1
Sodium	26.	0.50	mg/l	6010B	09/25/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 09/27/09 09:19 Printed: 09/27/09 09:20

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Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

September 27, 2009

ESC Sample # : L423382-05

Site ID :

Project # : 0909399

Date Received : September 22, 2009
Description :

Sample ID : INTERSTITIAL WELL

Collected By :
Collection Date : 09/16/09 13:09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	09/24/09	1
Arsenic	0.094	0.020	mg/l	6010B	09/25/09	1
Barium	74.	0.0050	mg/l	6010B	09/25/09	1
Cadmium	BDL	0.0050	mg/l	6010B	09/25/09	1
Calcium	5000	2.5	mg/l	6010B	09/26/09	5
Chromium	BDL	0.010	mg/l	6010B	09/25/09	1
Lead	0.37	0.025	mg/l	6010B	09/26/09	5
Magnesium	460	0.10	mg/l	6010B	09/25/09	1
Potassium	1400	2.5	mg/l	6010B	09/26/09	5
Selenium	BDL	0.10	mg/l	6010B	09/26/09	5
Silver	BDL	0.010	mg/l	6010B	09/25/09	1
Sodium	46000	25.	mg/l	6010B	09/26/09	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 09/27/09 09:19 Printed: 09/27/09 09:20

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L423382-05	WG442339	SAMP	Selenium	R918809	O

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

QA/QC SUMMARY REPORT

lient: Animas Environmental Services
oject: BMG Landfarm **Work Order:** 0909399

nalyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ıthod: EPA Method 300.0: Anions											
ımple ID: MB		*MBLK*				Batch ID:	**R35479**	Analysis Date:		9/25/2009 5:29:10 PM	
ıoride	ND	mg/L	0.10								
ıloride	ND	mg/L	0.10								
ılfate	ND	mg/L	0.50								
ımple ID: LCS		*LCS*				Batch ID:	**R35479**	Analysis Date:		9/25/2009 5:46:34 PM	
ıoride	0.5253	mg/L	0.10	0.5	0	105	90	110			
ıloride	5.052	mg/L	0.10	5	0	101	90	110			
ılfate	10.10	mg/L	0.50	10	0	101	90	110			
sthod: EPA Method 8015B: Diesel Range											
ımple ID: MB-20172		*MBLK*				Batch ID:	**20172**	Analysis Date:		9/23/2009 6:02:21 PM	
esel Range Organics (DRO)	ND	mg/L	1.0								
otor Oil Range Organics (MRO)	ND	mg/L	5.0								
ample ID: LCS-20172		*LCS*				Batch ID:	**20172**	Analysis Date:		9/24/2009 12:44:26 PM	
iesel Range Organics (DRO)	4.784	mg/L	1.0	5	0	95.7	74	157			
ample ID: LCSD-20172		*LCSD*				Batch ID:	**20172**	Analysis Date:		9/24/2009 1:19:54 PM	
iesel Range Organics (DRO)	4.734	mg/L	1.0	5	0	94.7	74	157	1.06	23	
lethod: EPA Method 8015B: Gasoline Range											
ample ID: b 6		*MBLK*				Batch ID:	**R35469**	Analysis Date:		9/26/2009 1:18:45 PM	
ıasoline Range Organics (GRO)	ND	mg/L	0.050								
ample ID: b 23		*MBLK*				Batch ID:	**R35469**	Analysis Date:		9/26/2009 9:47:27 PM	
ıasoline Range Organics (GRO)	ND	mg/L	0.050								
ample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R35469**	Analysis Date:		9/26/2009 8:46:44 PM	
ıasoline Range Organics (GRO)	0.5332	mg/L	0.050	0.5	0	107	80	115			
ample ID: 2.5UG GRO LCS-II		*LCS*				Batch ID:	**R35469**	Analysis Date:		9/27/2009 7:23:49 AM	
ıasoline Range Organics (GRO)	0.4954	mg/L	0.050	0.5	0	99.1	80	115			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

lient: Animas Environmental Services
roject: BMG Landfarm **Work Order:** 0909399

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
lethod: EPA Method 8021B: Volatiles											
ample ID: 0909399-01A MSD		*MSD*				Batch ID:	**R35469**	Analysis Date:		9/27/2009 8:24:30 AM	
enzene	20.09	µg/L	1.0	20	0	100	85.9	113	2.64	27	
oluene	20.64	µg/L	1.0	20	0.216	102	86.4	113	1.03	19	
thylbenzene	20.14	µg/L	1.0	20	0	101	83.5	118	1.99	10	
ylenes, Total	58.75	µg/L	2.0	60	0	97.9	83.4	122	1.45	13	
ample ID: b 6		*MBLK*				Batch ID:	**R35469**	Analysis Date:		9/26/2009 1:18:45 PM	
lenzene	ND	µg/L	1.0								
oluene	ND	µg/L	1.0								
thylbenzene	ND	µg/L	1.0								
ylenes, Total	ND	µg/L	2.0								
ample ID: b 23		*MBLK*				Batch ID:	**R35469**	Analysis Date:		9/26/2009 9:47:27 PM	
enzene	ND	µg/L	1.0								
oluene	ND	µg/L	1.0								
thylbenzene	ND	µg/L	1.0								
ylenes, Total	ND	µg/L	2.0								
ample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R35469**	Analysis Date:		9/26/2009 9:16:59 PM	
Benzene	21.42	µg/L	1.0	20	0	107	85.9	113			
Toluene	22.30	µg/L	1.0	20	0	111	86.4	113			
Ethylbenzene	21.64	µg/L	1.0	20	0	108	83.5	118			
Xylenes, Total	63.86	µg/L	2.0	60	0	106	83.4	122			
Sample ID: 100NG BTEX LCS-II		*LCS*				Batch ID:	**R35469**	Analysis Date:		9/27/2009 8:54:42 AM	
Benzene	20.98	µg/L	1.0	20	0	105	85.9	113			
Toluene	21.30	µg/L	1.0	20	0.282	105	86.4	113			
Ethylbenzene	21.21	µg/L	1.0	20	0.122	105	83.5	118			
Xylenes, Total	62.15	µg/L	2.0	60	0	104	83.4	122			
Sample ID: 0909399-01A MS		*MS*				Batch ID:	**R35469**	Analysis Date:		9/27/2009 7:54:02 AM	
Benzene	20.62	µg/L	1.0	20	0	103	85.9	113			
Toluene	20.85	µg/L	1.0	20	0.216	103	86.4	113			
Ethylbenzene	20.55	µg/L	1.0	20	0	103	83.5	118			
Xylenes, Total	59.61	µg/L	2.0	60	0	99.4	83.4	122			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-20176		*MBLK*				Batch ID:	**20176**	Analysis Date:		9/24/2009 3:16:00 PM	
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-20176		*LCS*				Batch ID:	**20176**	Analysis Date:		9/24/2009 3:16:00 PM	
Total Dissolved Solids	1011	mg/L	20.0	1000	0	101	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory
Anne Thorne
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Albuquerque, NM 87109

Quality Assurance Report
Level II

L423382

September 27, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Mercury	< .0002	mg/l			WG442203	09/24/09 10:50
Arsenic	< .02	mg/l			WG442339	09/25/09 14:39
Barium	< .005	mg/l			WG442339	09/25/09 14:39
Cadmium	< .005	mg/l			WG442339	09/25/09 14:39
Calcium	< .5	mg/l			WG442339	09/25/09 14:39
Chromium	< .01	mg/l			WG442339	09/25/09 14:39
Lead	< .005	mg/l			WG442339	09/25/09 14:39
Magnesium	< .1	mg/l			WG442339	09/25/09 14:39
Potassium	< .5	mg/l			WG442339	09/25/09 14:39
Selenium	< .02	mg/l			WG442339	09/25/09 14:39
Silver	< .01	mg/l			WG442339	09/25/09 14:39
Sodium	< .5	mg/l			WG442339	09/25/09 14:39

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/l	0	0	0	20	L423327-02	WG442203
Arsenic	mg/l	0	0	0	20	L423326-06	WG442339
Barium	mg/l	0	0	0	20	L423326-06	WG442339
Cadmium	mg/l	0	0	0	20	L423326-06	WG442339
Calcium	mg/l	0	0.0440	NA	20	L423326-06	WG442339
Chromium	mg/l	0	0	0	20	L423326-06	WG442339
Lead	mg/l	0	0	0	20	L423326-06	WG442339
Magnesium	mg/l	0	0.0233	NA	20	L423326-06	WG442339
Potassium	mg/l	0	0	0	20	L423326-06	WG442339
Selenium	mg/l	0	0	0	20	L423326-06	WG442339
Silver	mg/l	0	0	0	20	L423326-06	WG442339
Sodium	mg/l	2.50	2.31	7.90	20	L423326-06	WG442339

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Mercury	mg/l	.003	0.00285	95.0	85-115	WG442203
Arsenic	mg/l	1.13	1.00	88.5	85-115	WG442339
Barium	mg/l	1.13	1.06	93.8	85-115	WG442339
Cadmium	mg/l	1.13	1.06	93.8	85-115	WG442339
Calcium	mg/l	11.3	10.6	93.8	85-115	WG442339
Chromium	mg/l	1.13	1.05	92.9	85-115	WG442339
Lead	mg/l	1.13	1.05	92.9	85-115	WG442339
Potassium	mg/l	11.3	10.3	91.2	85-115	WG442339
Selenium	mg/l	1.13	1.02	90.3	85-115	WG442339
Silver	mg/l	1.13	1.06	93.8	85-115	WG442339
Sodium	mg/l	11.3	10.6	93.8	85-115	WG442339

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Mercury	mg/l	0.00313	0	.003	104	70-130	L423327-02	WG442203
Arsenic	mg/l	0.937	0	1.13	82.9	75-125	L423326-06	WG442339
Barium	mg/l	1.09	0	1.13	96.5	75-125	L423326-06	WG442339
Cadmium	mg/l	1.10	0	1.13	97.3	75-125	L423326-06	WG442339

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L423382

September 27, 2009

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Matrix Spike								
Calcium	mg/l	10.8	0.0420	11.3	95.2	75-125	L423326-06	WG442339
Chromium	mg/l	1.07	0	1.13	94.7	75-125	L423326-06	WG442339
Lead	mg/l	1.07	0	1.13	94.7	75-125	L423326-06	WG442339
Magnesium	mg/l	11.0	0.0233	11.3	97.1	75-125	L423326-06	WG442339
Potassium	mg/l	11.1	0	11.3	98.2	75-125	L423326-06	WG442339
Selenium	mg/l	0.987	0	1.13	87.3	75-125	L423326-06	WG442339
Silver	mg/l	1.01	0	1.13	89.4	75-125	L423326-06	WG442339
Sodium	mg/l	13.8	2.31	11.3	102.	75-125	L423326-06	WG442339

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Matrix Spike Duplicate									
Mercury	mg/l	0.00320	0.00313	107	70-130	2.21	20	L423327-02	WG442203
Arsenic	mg/l	0.973	0.937	86.1	75-125	3.77	20	L423326-06	WG442339
Barium	mg/l	1.09	1.09	96.5	75-125	0	20	L423326-06	WG442339
Cadmium	mg/l	1.09	1.10	96.5	75-125	0.913	20	L423326-06	WG442339
Calcium	mg/l	10.7	10.8	94.3	75-125	0.930	20	L423326-06	WG442339
Chromium	mg/l	1.11	1.07	98.2	75-125	3.67	20	L423326-06	WG442339
Lead	mg/l	1.11	1.07	98.2	75-125	3.67	20	L423326-06	WG442339
Magnesium	mg/l	10.9	11.0	96.2	75-125	0.913	20	L423326-06	WG442339
Potassium	mg/l	10.9	11.1	91.2	75-125	1.40	20	L423326-06	WG442339
Selenium	mg/l	1.02	0.987	90.3	75-125	3.29	20	L423326-06	WG442339
Silver	mg/l	0.588	1.01	52.0*	75-125	52.8*	20	L423326-06	WG442339
Sodium	mg/l	12.9	13.8	93.7	75-125	6.74	20	L423326-06	WG442339

Batch number /Run number / Sample number cross reference

WG442203: R915271: L423382-01 02 03 04 05
WG442339: R918809: L423382-01 02 03 04 05

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL | Date Received: 9/19/2009

Work Order Number 0909399 | Received by: AMF

Checklist completed by: _____ 09/19/09 (Signature / Date) | Sample ID labels checked by: _____ (initials)

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	4.5°	<6° C Acceptable If given sufficient time to cool.		

Number of preserved bottles checked for pH: 5 AT 09/21/09 (<2 >12 unless noted below.)

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services, LLC.

Mailing Address: 624 E. Comanche Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: BMG Landfarm

Project #: 040605

Project Manager: Ross Kennemer

Sampler: Nathan Willis

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.5°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0909369	BTEX + [redacted] (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals 6010/7470 Hg	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Chlorides	SM 2540c TDS			Air Bubbles (Y or N)
9-16-09	1441	H_2O	MW-1	5-40mL VOA 1-40mL VOA	HCl —	-1	X		X				X					X	X			
	1508		MW-2	1-500mL plastic 1-500mL plastic	— ~~H_2SO_4~~ HNO_3	-2	X		X				X					X	X			
	1541		MW-3			-3	X		X				X					X	X			
	1359		MW-4			-4	X		X				X					X	X			
	1309		Interstitial Well			-5	X		X				X					X	X			
			trip blank			-6	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/17/09	0830	Nathan Willis	Deborah Watson	9/17/09	0830
9/18/09	1620	Deborah Watson		9/18/09	1400

Remarks:
Cations/anions = calcium, magnesium, sodium potassium, sulfate as SO_4, Flouride

RCRA Metals = Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, September 24, 2009

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm

Order No.: 0909262

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 9/15/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Sep-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	cell #1
Lab Order:	0909262	**Collection Date:**	9/11/2009 1:50:00 PM
Project:	BMG Landfarm	**Date Received:**	9/15/2009
Lab ID:	0909262-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	160	10		mg/Kg	1	9/18/2009 11:38:08 AM
Motor Oil Range Organics (MRO)	300	50		mg/Kg	1	9/18/2009 11:38:08 AM
Surr: DNOP	95.6	61.7-135		%REC	1	9/18/2009 11:38:08 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/17/2009 10:22:53 PM
Surr: BFB	97.1	65.9-118		%REC	1	9/17/2009 10:22:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/17/2009 10:22:53 PM
Toluene	ND	0.050		mg/Kg	1	9/17/2009 10:22:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/17/2009 10:22:53 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/17/2009 10:22:53 PM
Surr: 4-Bromofluorobenzene	112	64.7-120		%REC	1	9/17/2009 10:22:53 PM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Fluoride	ND	1.5		mg/Kg	5	9/23/2009 8:59:24 AM
Chloride	10	1.5		mg/Kg	5	9/23/2009 8:59:24 AM
Sulfate	23	7.5		mg/Kg	5	9/23/2009 8:59:24 AM
CONDUCTANCE						Analyst: **TAF**
Specific Conductance	370	1.0		µmhos/cm	1	9/20/2009
SM4500-H+B: PH						Analyst: **MMS**
pH	7.65	0.1		pH Units	1	9/18/2009

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Sep-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	cell #2
Lab Order:	0909262	**Collection Date:**	9/11/2009 1:33:00 PM
Project:	BMG Landfarm	**Date Received:**	9/15/2009
Lab ID:	0909262-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/18/2009 12:18:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/18/2009 12:18:43 AM
Surr: DNOP	80.9	61.7-135		%REC	1	9/18/2009 12:18:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/17/2009 10:53:15 PM
Surr: BFB	96.8	65.9-118		%REC	1	9/17/2009 10:53:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/17/2009 10:53:15 PM
Toluene	ND	0.050		mg/Kg	1	9/17/2009 10:53:15 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/17/2009 10:53:15 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/17/2009 10:53:15 PM
Surr: 4-Bromofluorobenzene	110	64.7-120		%REC	1	9/17/2009 10:53:15 PM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Fluoride	ND	1.5		mg/Kg	5	9/23/2009 9:34:13 AM
Chloride	8.9	1.5		mg/Kg	5	9/23/2009 9:34:13 AM
Sulfate	26	7.5		mg/Kg	5	9/23/2009 9:34:13 AM
CONDUCTANCE						Analyst: **TAF**
Specific Conductance	150	1.0		µmhos/cm	1	9/20/2009
SM4500-H+B: PH						Analyst: **MMS**
pH	7.67	0.1		pH Units	1	9/18/2009

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Sep-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	cell #3
Lab Order:	0909262	**Collection Date:**	9/11/2009 1:13:00 PM
Project:	BMG Landfarm	**Date Received:**	9/15/2009
Lab ID:	0909262-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	14	10		mg/Kg	1	9/18/2009 12:54:24 AM
Motor Oil Range Organics (MRO)	51	50		mg/Kg	1	9/18/2009 12:54:24 AM
Surr: DNOP	81.2	61.7-135		%REC	1	9/18/2009 12:54:24 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/17/2009 11:23:36 PM
Surr: BFB	97.9	65.9-118		%REC	1	9/17/2009 11:23:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/17/2009 11:23:36 PM
Toluene	ND	0.050		mg/Kg	1	9/17/2009 11:23:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/17/2009 11:23:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/17/2009 11:23:36 PM
Surr: 4-Bromofluorobenzene	112	64.7-120		%REC	1	9/17/2009 11:23:36 PM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Fluoride	ND	1.5		mg/Kg	5	9/23/2009 10:09:02 AM
Chloride	28	1.5		mg/Kg	5	9/23/2009 10:09:02 AM
Sulfate	140	7.5		mg/Kg	5	9/23/2009 10:09:02 AM
CONDUCTANCE						Analyst: **TAF**
Specific Conductance	870	1.0		µmhos/cm	1	9/20/2009
SM4500-H+B: PH						Analyst: **MMS**
pH	7.32	0.1		pH Units	1	9/18/2009

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Sep-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MeOH BLANK
Lab Order:	0909262	**Collection Date:**	
Project:	BMG Landfarm	**Date Received:**	9/15/2009
Lab ID:	0909262-04	**Matrix:**	MEOH BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/17/2009 11:53:59 PM
Toluene	ND	0.050		mg/Kg	1	9/17/2009 11:53:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/17/2009 11:53:59 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/17/2009 11:53:59 PM
Surr: 4-Bromofluorobenzene	110	64.7-120		%REC	1	9/17/2009 11:53:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

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REPORT OF ANALYSIS

September 22, 2009

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

ESC Sample # : L422341-01

Site ID :

Project # : 0909262

Date Received : September 16, 2009
Description :

Sample ID : CELL 1

Collected By :
Collection Date : 09/11/09 13:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.020	mg/kg	7471	09/17/09	1
Arsenic	2.0	1.0	mg/kg	6010B	09/21/09	1
Barium	50.	0.25	mg/kg	6010B	09/18/09	1
Cadmium	0.27	0.25	mg/kg	6010B	09/18/09	1
Calcium	3000	25.	mg/kg	6010B	09/18/09	1
Chromium	5.9	0.50	mg/kg	6010B	09/18/09	1
Lead	3.5	0.25	mg/kg	6010B	09/18/09	1
Magnesium	1300	5.0	mg/kg	6010B	09/18/09	1
Potassium	860	25.	mg/kg	6010B	09/18/09	1
Selenium	BDL	1.0	mg/kg	6010B	09/18/09	1
Silver	BDL	0.50	mg/kg	6010B	09/18/09	1
Sodium	BDL	25.	mg/kg	6010B	09/18/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 09/22/09 10:33 Printed: 09/22/09 10:33

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

September 22, 2009

ESC Sample # : L422341-02

Site ID :

Project # : 0909262

Date Received : September 16, 2009
Description :

Sample ID : CELL 2

Collected By :
Collection Date : 09/11/09 13:33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.020	mg/kg	7471	09/17/09	1
Arsenic	1.9	1.0	mg/kg	6010B	09/21/09	1
Barium	48.	0.25	mg/kg	6010B	09/18/09	1
Cadmium	BDL	0.25	mg/kg	6010B	09/18/09	1
Calcium	940	25.	mg/kg	6010B	09/18/09	1
Chromium	3.8	0.50	mg/kg	6010B	09/18/09	1
Lead	2.8	0.25	mg/kg	6010B	09/18/09	1
Magnesium	710	5.0	mg/kg	6010B	09/18/09	1
Potassium	470	25.	mg/kg	6010B	09/18/09	1
Selenium	BDL	1.0	mg/kg	6010B	09/18/09	1
Silver	BDL	0.50	mg/kg	6010B	09/18/09	1
Sodium	BDL	25.	mg/kg	6010B	09/18/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 09/22/09 10:33 Printed: 09/22/09 10:33

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

September 22, 2009

ESC Sample # : L422341-03

Site ID :

Project # : 0909262

Date Received : September 16, 2009
Description :

Sample ID : CELL 3

Collected By :
Collection Date : 09/11/09 13:13

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.020	mg/kg	7471	09/17/09	1
Arsenic	2.6	1.0	mg/kg	6010B	09/21/09	1
Barium	120	0.25	mg/kg	6010B	09/18/09	1
Cadmium	0.48	0.25	mg/kg	6010B	09/18/09	1
Calcium	3000	25.	mg/kg	6010B	09/18/09	1
Chromium	14.	0.50	mg/kg	6010B	09/18/09	1
Lead	6.9	0.25	mg/kg	6010B	09/18/09	1
Magnesium	2400	5.0	mg/kg	6010B	09/18/09	1
Potassium	2400	25.	mg/kg	6010B	09/18/09	1
Selenium	BDL	1.0	mg/kg	6010B	09/18/09	1
Silver	BDL	0.50	mg/kg	6010B	09/18/09	1
Sodium	76.	25.	mg/kg	6010B	09/18/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 09/22/09 10:33 Printed: 09/22/09 10:33

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm **Work Order:** 0909262

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-20170		*MBLK*				Batch ID:	**20170**	Analysis Date:	9/23/2009 8:24:35 AM		
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-20170		*LCS*				Batch ID:	**20170**	Analysis Date:	9/23/2009 8:42:00 AM		
Fluoride	1.573	mg/Kg	0.30	1.5	0	105	90	110			
Chloride	14.93	mg/Kg	0.30	15	0	99.5	90	110			
Sulfate	30.22	mg/Kg	1.5	30	0	101	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-20124		*MBLK*				Batch ID:	**20124**	Analysis Date:	9/17/2009 8:10:12 AM		
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-20124		*LCS*				Batch ID:	**20124**	Analysis Date:	9/17/2009 12:18:08 PM		
Diesel Range Organics (DRO)	35.46	mg/Kg	10	50	0	70.9	64.6	116			
Sample ID: LCSD-20124		*LCSD*				Batch ID:	**20124**	Analysis Date:	9/17/2009 12:53:49 PM		
Diesel Range Organics (DRO)	36.79	mg/Kg	10	50	0	73.6	64.6	116	3.69	17.4	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R35345**	Analysis Date:	9/17/2009 9:29:44 AM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R35345**	Analysis Date:	9/18/2009 4:27:36 AM		
Gasoline Range Organics (GRO)	28.41	mg/Kg	5.0	25	0	114	64.4	133			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm **Work Order:** 0909262

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 0909262-03A MSD		*MSD*				Batch ID:	**R35345**	Analysis Date:		9/18/2009 3:57:16 AM	
Benzene	1.011	mg/Kg	0.050	1	0.0066	100	78.8	132	4.10	27	
Toluene	1.061	mg/Kg	0.050	1	0	106	78.9	112	5.50	19	
Ethylbenzene	1.125	mg/Kg	0.050	1	0	113	69.3	125	6.39	10	
Xylenes, Total	3.395	mg/Kg	0.10	3	0	113	73	128	4.16	13	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R35345**	Analysis Date:		9/17/2009 9:29:44 AM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R35345**	Analysis Date:		9/18/2009 4:58:06 AM	
Benzene	1.013	mg/Kg	0.050	1	0	101	78.8	132			
Toluene	1.025	mg/Kg	0.050	1	0	102	78.9	112			
Ethylbenzene	1.008	mg/Kg	0.050	1	0	101	69.3	125			
Xylenes, Total	2.988	mg/Kg	0.10	3	0	99.6	73	128			
Sample ID: 0909262-03A MS		*MS*				Batch ID:	**R35345**	Analysis Date:		9/18/2009 3:27:02 AM	
Benzene	0.9701	mg/Kg	0.050	1	0.0066	96.4	78.8	132			
Toluene	1.004	mg/Kg	0.050	1	0	100	78.9	112			
Ethylbenzene	1.056	mg/Kg	0.050	1	0	106	69.3	125			
Xylenes, Total	3.256	mg/Kg	0.10	3	0	109	73	128			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L422341

September 22, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Mercury	< .02	mg/kg			WG441169	09/17/09 20:51
Barium	< .25	mg/kg			WG441170	09/18/09 20:13
Cadmium	< .25	mg/kg			WG441170	09/18/09 20:13
Calcium	< 25	mg/kg			WG441170	09/18/09 20:13
Chromium	< .5	mg/kg			WG441170	09/18/09 20:13
Lead	< .25	mg/kg			WG441170	09/18/09 20:13
Potassium	< 25	mg/kg			WG441170	09/18/09 20:13
Selenium	< 1	mg/kg			WG441170	09/18/09 20:13
Silver	< .5	mg/kg			WG441170	09/18/09 20:13
Sodium	< 25	mg/kg			WG441170	09/18/09 20:13
Arsenic	< 1	mg/kg			WG441897	09/21/09 22:46

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/kg	0.00	0.00	0.00	20	L422350-02	WG441169
Barium	mg/kg	66.9	58.0	14.3	20	L422350-02	WG441170
Cadmium	mg/kg	0.401	0.360	10.8	20	L422350-02	WG441170
Calcium	mg/kg	20500	0.00	NA	20	L422350-02	WG441170
Chromium	mg/kg	16.7	15.0	10.7	20	L422350-02	WG441170
Lead	mg/kg	6.11	5.70	6.94	20	L422350-02	WG441170
Potassium	mg/kg	3200	0.00	NA	20	L422350-02	WG441170
Selenium	mg/kg	0.00	0.00	0.00	20	L422350-02	WG441170
Silver	mg/kg	0.00	0.00	0.00	20	L422350-02	WG441170
Sodium	mg/kg	564.	0.00	NA	20	L422350-02	WG441170
Arsenic	mg/kg	2.04	1.50	30.5*	20	L422350-02	WG441897

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Mercury	mg/kg	8.77	10.8	123.	71.6-127.7	WG441169
Barium	mg/kg	420	348.	82.9	78.8-121.4	WG441170
Cadmium	mg/kg	70.1	55.0	78.5*	78.5-121.5	WG441170
Calcium	mg/kg	9540	8290	86.9	78.2-121.6	WG441170
Chromium	mg/kg	168	142.	84.5	80.4-120.2	WG441170
Lead	mg/kg	113	89.5	79.2	77.3-122.1	WG441170
Potassium	mg/kg	4020	3940	98.0	70.1-129.9	WG441170
Selenium	mg/kg	176	137.	77.8	75.6-125.0	WG441170
Silver	mg/kg	115	95.0	82.6	66-133.9	WG441170
Sodium	mg/kg	618	580.	93.9	73.8-126.2	WG441170
Arsenic	mg/kg	192	168.	87.5	78.6-120.8	WG441897

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Mercury	mg/kg	0.245	0.00	.25	98.0	70-130	L422350-02	WG441169

* *Performance of this Analyte is outside of established criteria.*
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ENVIRONMENTAL SCIENCE CORP.

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Quality Assurance Report
Level II

L422341

September 22, 2009

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Barium	mg/kg	106.	58.0	50	96.0	75-125	L422350-02	WG441170
Cadmium	mg/kg	37.4	0.360	50	74.1*	75-125	L422350-02	WG441170
Calcium	mg/kg	22700	0.00	500	4540*	75-125	L422350-02	WG441170
Chromium	mg/kg	54.6	15.0	50	79.2	75-125	L422350-02	WG441170
Lead	mg/kg	44.4	5.70	50	77.4	75-125	L422350-02	WG441170
Potassium	mg/kg	3660	0.00	500	732.*	75-125	L422350-02	WG441170
Selenium	mg/kg	34.3	0.00	50	68.6*	75-125	L422350-02	WG441170
Silver	mg/kg	38.6	0.00	50	77.2	75-125	L422350-02	WG441170
Sodium	mg/kg	972.	0.00	500	194.*	75-125	L422350-02	WG441170
Arsenic	mg/kg	41.6	1.50	50	80.2	75-125	L422350-02	WG441897

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Mercury	mg/kg	0.240	0.245	96.0	70-130	2.06	20	L422350-02	WG441169
Barium	mg/kg	103.	106.	90.0	75-125	2.87	20	L422350-02	WG441170
Cadmium	mg/kg	38.5	37.4	76.3	75-125	2.90	20	L422350-02	WG441170
Calcium	mg/kg	21400	22700	4280*	75-125	5.90	20	L422350-02	WG441170
Chromium	mg/kg	55.4	54.6	80.8	75-125	1.45	20	L422350-02	WG441170
Lead	mg/kg	45.8	44.4	80.2	75-125	3.10	20	L422350-02	WG441170
Potassium	mg/kg	3560	3660	712*	75-125	2.77	20	L422350-02	WG441170
Selenium	mg/kg	35.7	34.3	71.4*	75-125	4.00	20	L422350-02	WG441170
Silver	mg/kg	39.8	38.6	79.6	75-125	3.06	20	L422350-02	WG441170
Sodium	mg/kg	951.	972.	190.2*	75-125	2.18	20	L422350-02	WG441170
Arsenic	mg/kg	41.8	41.6	80.6	75-125	0.480	20	L422350-02	WG441897

Batch number /Run number / Sample number cross reference

WG441169: R905228: L422341-01 02 03
WG441170: R908569: L422341-01 02 03
WG441897: R910029: L422341-01 02 03

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL | Date Received: 9/15/2009

Work Order Number 0909262 | Received by: TLS

Checklist completed by: [signature] Signature 9/15/09 Date | Sample ID labels checked by: [initials] Initials

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**6.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services LLC

Mailing Address: 624 E Comanche Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: BMG Landfarm

Project #:

Project Manager: Ross Kennemer

Sampler: Nathan Willis

On Ice: ☑ Yes ☐ No

Sample Temperature: 6.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0909260	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals 6010/7470	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Cations/anions	Chlorides 300.0	pH	Specific conductivity	Air Bubbles (Y or N)
9-11-09	1350	Soil	cell #1	MeOH Kit, 1-4oz jar	MeOH/ice	1	X		X				X					X	X	X	X	
9-11-09	1333	"	cell #2	1-8oz jar	—	2	X		X				X					X	X	X	X	
9-11-09	1313	"	cell #3			3	X		X				X					X	X	X	X	
			MeOH Blank			4																

Date: 9/14/09 Time: 1604 Relinquished by: Nathan Willis

Received by: [signature] Date: 9/15/09 Time: 935

Date: Time: Relinquished by:

Received by: Date: Time:

Remarks:
cations/anions = calcium, magnesium, sodium, potassium, sulfate as SO4, Flouride
RCRA 8 metals = Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver

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

AES | Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

August 31, 2009

Brad Jones
New Mexico Oil Conservation Division
1220 South St Francis Drive
Santa Fe, NM 87505

RE: Results of June 2009 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On June 15, 2009, Animas Environmental Services, LLC (AES), completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico. The Centralized Surface Waste Management Facility is located off of Forest Rd 313 in the NW ¼ NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 BMG Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site History

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that while the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitoring wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner around September 15, 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitoring wells on June 15, 2009. Groundwater samples were collected from MW-1 through MW-4 and IW. All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the analyzing laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) – EPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0;
- Total Dissolved Solids (TDS) – SM 2540C.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation-reduction potential (ORP) measurements for each well. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 12.53°C in MW-4 to 16.09°C in IW. Conductivity ranged from 0.809 mS in MW-4 to 181.1 mS in IW, and ORP was measured between 16.8 mV in MW-2 and 106.8 mV in MW-1. Groundwater pH ranged from 6.72 in IW to 7.39 in MW-2. A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the June 2009 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and therefore are below the New Mexico Water Quality Control Commission (WQCC) standards. Each of the monitor wells had TPH concentrations below laboratory detection limits, while IW had total TPH concentrations of 16.6 mg/L. Chloride and TDS concentrations were above laboratory detection limits in each of the samples. The results have been summarized as follows:

- Chloride: IW (130,000 mg/L), MW-1 (29 mg/L), MW-2 (31 mg/L), MW-3 (32 mg/L), and MW-4 (19 mg/L);
- TDS: IW (180,000), MW-1 (780 mg/L), MW-2 (750 mg/L), MW-3 (650 mg/L), and MW-4 (1,000 mg/L).

The analytical results for the groundwater samples collected during the June 2009 sampling event have been tabulated and are presented in Table 2 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from depths below ground surface of two feet in Cell #1, Cell #2, and Cell # 3. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples collected were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH (GRO, DRO, and MRO) per EPA Method 8015B;
- Chlorides per EPA Method 300.0.

Samples collected for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Results are summarized as follows:

- BTEX concentrations were below laboratory detection limits in each cell;
- TPH-GRO concentrations were below laboratory detection limits in each cell; TPH-DRO concentrations were below detection limits in Cell #2 and Cell #3 and 36 mg/kg in Cell #1. TPH-MRO concentrations were 74 mg/kg in Cell #1 and below the laboratory detection limit of 50 mg/kg in Cell #2 and Cell #3;

- Chloride concentrations were below the applicable NMOCD standard of 500 mg/kg in each of the cells.

The locations of all samples, as well as analytical results, are presented on Figure 2. Laboratory analytical results and are summarized in Tables 3 and 4, and laboratory reports are presented in Appendix A.

3.0 Conclusion and Recommendations

Based upon the results of the June 2009 sampling event associated with the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitor wells MW-1 through MW-4 located around the Evaporation Pond were below laboratory detection limits for BTEX and TPH.

Soil analytical results from treatment zone monitoring within the landfarm were below laboratory detection limits for BTEX constituents and were below applicable standards for chlorides.

AES has scheduled quarterly treatment zone monitoring and sampling of evaporation pond monitoring wells to occur in September 2009. If you have any questions regarding the sampling procedures or results, please do not hesitate to contact Ross Kennemer at (505) 564-2281.

Sincerely,

Corwin Lameman
Geology Intern

Elizabeth McNally, PE

Attachments: **Tables**

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Soil BTEX and TPH Concentrations
Table 4. Soil Chloride Concentrations

Figures

Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
Figure 2. Treatment Zone Monitoring Locations

Appendices

Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

Cc: Mike Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington NM 87402

S:\Animas 2000\2009 Projects\BMG\Landfarm\Reports\gcbmg 083109.doc

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (ºC)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
MW-3	9-Oct-08	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0

NM - Not Measured

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation*	*Depth to Water*	*Temp.*	*Specific Conduct.*	*Dissolved Oxygen*	*pH*	*ORP*
		(ft amsl)	*(ft)*	*(ºC)*	*(mS)*	*(mg/L)*		*(mV)*

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
MW-3	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
MW-4	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1	#1	N 36° 23.327' W 106° 51.939'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	55
Cell #1	#1	N 36° 23.364' W 106° 52.017'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	39	77
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #2	#2	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #2	#2	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	
Cell #2	#2	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	
Cell #2	#2	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	
Cell #2	#2	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	
Cell #2	#2	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #2	#2	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#2	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	#2	N 36° 23.403' W 106° 51.945'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #2	#2	N 36° 23.410' W 106° 52.024'	30-Dec-08	1	<0.050	<0.050	<0.050	<0.10	<5.0	45	81
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #3	#3	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	
Cell #3	#3	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	
Cell #3	#3	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	
Cell #3	#3	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	
Cell #3	#3	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #3	#3	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#3	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#3	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	<0.10*	<5.0	<10	<50
Cell #3	#3	N 36° 23.357' W 106° 51.911'	30-Dec-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50

TABLE 3
Soil BTEX and TPH Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*		
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	

*** = Samples were analyzed by per EPA Method 8260B**

Note 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.**

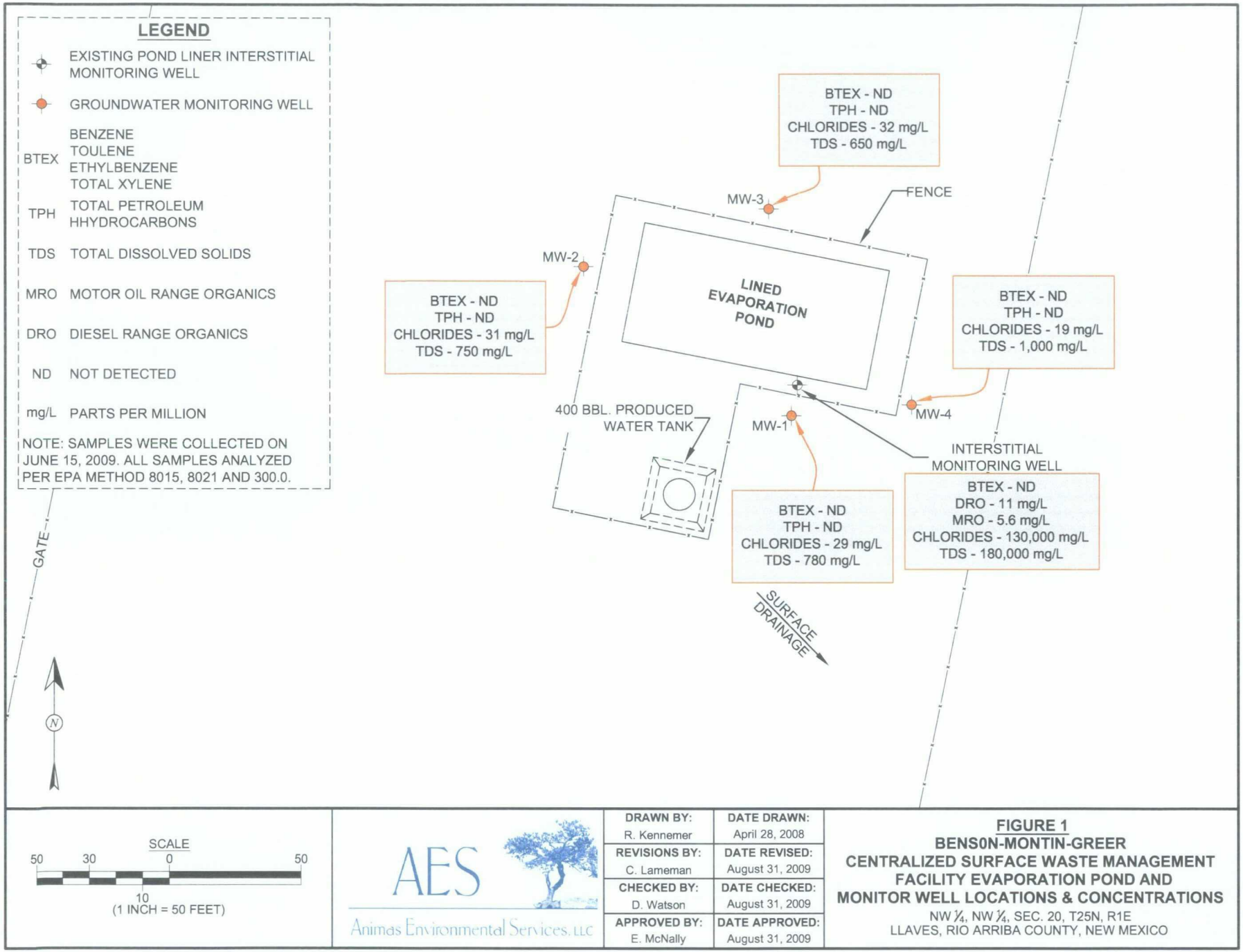
Note 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.**

Note Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.**

TABLE 4
Soil Chloride Concentrations
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	*Sample ID*	*Sample Date*	*Sample Depth (ft)*	*Chloride (mg/kg)*
	Laboratory Analytical Method			**300.0**
	NMOCD Soil Standard			**500**
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8
Cell #1	#1	9-Oct-08	2	14
Cell #1	#1	30-Dec-08	1	30
Cell #1	#1	25-Mar-09	2	6
Cell #1	#1	15-Jun-09	2	48
Cell #2	#2	7-Jun-06	2.5	20.4*
Cell #2	#2	22-May-07	3	17.4
Cell #2	#2	16-Aug-07	2.5	5.34
Cell #2	#2	6-Nov-07	2.5	3.3
Cell #2	#2	14-Apr-08	2	2.2
Cell #2	#2	21-Jul-08	2	14
Cell #2	#2	9-Oct-08	2	1.1
Cell #2	#2	30-Dec-08	1	32
Cell #2	#2	25-Mar-09	2	8.3
Cell #2	#2	15-Jun-07	2	16
Cell #3	#3	7-Jun-06	2.5	26.3*
Cell #3	#3	22-May-07	3	57.6
Cell #3	#3	16-Aug-07	2.5	2.86
Cell #3	#3	6-Nov-07	2	7.8
Cell #3	#3	14-Apr-08	2	26
Cell #3	#3	21-Jul-08	2	5.5
Cell #3	#3	9-Oct-08	2	1.4
Cell #3	#3	30-Dec-08	2	4.2
Cell #3	#3	25-Mar-09	2	5.1
Cell #3	#3	15-Jun-09	2	22

Note: * = Concentrations reported are in mg/L
NA = Not Analyzed



AES
Animas Environmental Services, LLC

DRAWN BY: R. Kennemer	DATE DRAWN: April 28, 2008
REVISIONS BY: C. Lameman	DATE REVISED: August 31, 2009
CHECKED BY: D. Watson	DATE CHECKED: August 31, 2009
APPROVED BY: E. McNally	DATE APPROVED: August 31, 2009

FIGURE 1
BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS
NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

S:\ANIMAS 2000\2009 PROJECTS\BMG\LANDFARM\DRAWINGS\FIGURE 1 EVAPORATION POND AND MONITOR WELL LOCATIONS

SUMMARY OF QUARTERLY TREATMENT ZONE MONITORING JUNE 2009

LANDFARM I.D.	SAMPLE I.D.	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/Kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	#1	N 36°23.331' W 106°51.948'	06/15/09	2	<0.050	<0.050	<0.050	<0.10	<5.0	**36**	**74**	**48**
CELL #2	#2	N 36°23.426' W 106°52.013'	06/15/09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	**16**
CELL #3	#3	N 36°23.367' W 106°51.843'	06/15/09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	**22**
CELL #4		NOT IN USE, NO SAMPLE										

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

N

AES
Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: May 29, 2008
REVISIONS BY: N. Willis	DATE REVISED: August 31, 2009
CHECKED BY: D. Watson	DATE CHECKED: August 21, 2009
APPROVED BY: E. McNally	DATE APPROVED: August 31, 2009

FIGURE 2
BENSON-MONTIN-GREER
CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY MONITORING LOCATIONS
JUNE 2009
NW1/4, NW1/4, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

S:\ANIMAS 2000\2009 PROJECTS\BMG\LANDFARM\DRAWINGS\061509 SAMPLING

Water Sampling Record

Monitor Well No: **Interstitial Well**

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

Project:	BMG Land Farm Sampling	**Project No.:**	
Site:	Evaporation Pond	**Date:**	6-15-09
Location:	Llaves, NM	**Time:**	1434
Sampler:	NW	**Weather:**	Partly Cloudy
Sampling Method:	Purge	**Air Temperature:**	71°F
Depth of Well (ft):	12.10	**Well Diam. (in.):**	2
Depth to Water (ft):	9.79	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1448	16.09	181.1	1.45	6.72	21.8	0.25	
1453	—						Samples Collected

Analytical Parameters Sampled For (include Method #):

BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserved

Chlorides and TDS (1) 500mL poly unpreserved

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Hall Environmental Analysis Lab, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter;

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-1**

Animas Environmental Services

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

Project:	BMG Land Farm Sampling	**Project No.:**	
Site:	Evaporation Pond	**Date:**	6-15-09
Location:	Llaves, NM	**Time:**	1400
Sampler:	NW	**Weather:**	Clear
Sampling Method:	Purge	**Air Temperature:**	71°F
Depth of Well (ft):	45.55	**Well Diam. (in.):**	2
Depth to Water (ft):	38.71	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1416	13.51	0.832	3.53	6.98	111.8	0.25	
1420	13.09	0.820	3.08	6.99	106.8	1	
1425	—	—	—	—	—	—	Samples Collected
							low Yield

Analytical Parameters Sampled For (include Method #):

BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserved

Chlorides and TDS (1) 500mL poly unpreserved

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Hall Environmental Analysis Lab, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter;

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-2**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Project:	BMG Land Farm Sampling	**Project No.:**	
Site:	Evaporation Pond	**Date:**	6-15-09
Location:	Llaves, NM	**Time:**	1509
Sampler:	NW	**Weather:**	Partly Cloudy
Sampling Method:	Purge	**Air Temperature:**	71°F
Depth of Well (ft):	45.54	**Well Diam. (in.):**	2
Depth to Water (ft):	39.77	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1526	13.92	3.566	4.31	7.37	0.3	0.25	
1529	12.77	1.057	4.51	7.39	16.8	1	
1534							Samples Collected low Yield

Analytical Parameters Sampled For (include Method #):

BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserved

Chlorides and TDS (1) 500mL poly unpreserved

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Hall Environmental Analysis Lab, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter;

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-3**

Animas Environmental Services

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

Project:	BMG Land Farm Sampling	**Project No.:**	
Site:	Evaporation Pond	**Date:**	6-15-09
Location:	Llaves, NM	**Time:**	1546
Sampler:	NW	**Weather:**	Partly Cloudy
Sampling Method:	Purge	**Air Temperature:**	71°F
Depth of Well (ft):	45.59	**Well Diam. (in.):**	2
Depth to Water (ft):	39.01	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1559	13.69	0.914	2.67	7.23	59.8	0.25	
1602	12.87	0.909	3.28	7.24	60.9	1	
1607							Samples Collected
							low Yield

Analytical Parameters Sampled For (include Method #):

BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserved

Chlorides and TDS (1) 500mL poly unpreserved

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Hall Environmental Analysis Lab, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

Water Sampling Record

Monitor Well No: **MW-4**

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Project:	BMG Land Farm Sampling	**Project No.:**	
Site:	Evaporation Pond	**Date:**	6-15-09
Location:	Llaves, NM	**Time:**	1315
Sampler:	NW	**Weather:**	Clear
Sampling Method:	Purge	**Air Temperature:**	71°F
Depth of Well (ft):	45.6	**Well Diam. (in.):**	2
Depth to Water (ft):	39.51	**Site Elevation (ft):**	

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations
1331	14.08	0.911	4.63	7.17	94.4	0.25	
1335	12.78	0.843	4.05	7.17	95.8	1	
1338	12.82	0.819	3.83	7.12	95.1	1	
1342	12.53	0.809	3.84	7.10	97.0	1	
1347	—						Samples Collected

Analytical Parameters Sampled For (include Method #):

BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserved

Chlorides and TDS (1) 500mL poly unpreserved

Disposal of Purged Water:	On asphalt or concrete pavement
Chain of Custody Record Complete? (Y/N)	Yes
Analytical Laboratory:	Hall Environmental Analysis Lab, Albuquerque, NM
Equipment Used During Sampling:	Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer

Other Notes/Comments

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, July 08, 2009

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm

Order No.: 0906329

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 6/17/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Jul-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1
Lab Order:	0906329	**Collection Date:**	6/15/2009 11:58:00 AM
Project:	BMG Landfarm	**Date Received:**	6/17/2009
Lab ID:	0906329-01	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	36	10		mg/Kg	1	6/24/2009
Motor Oil Range Organics (MRO)	74	50		mg/Kg	1	6/24/2009
Surr: DNOP	98.9	61.7-135		%REC	1	6/24/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/23/2009 4:53:25 AM
Surr: BFB	83.5	58.8-123		%REC	1	6/23/2009 4:53:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	6/23/2009 4:53:25 AM
Toluene	ND	0.050		mg/Kg	1	6/23/2009 4:53:25 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/23/2009 4:53:25 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/23/2009 4:53:25 AM
Surr: 4-Bromofluorobenzene	94.9	66.8-139		%REC	1	6/23/2009 4:53:25 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	48	3.0		mg/Kg	10	6/23/2009 3:47:27 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Jul-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2
Lab Order:	0906329	**Collection Date:**	6/15/2009 12:33:00 PM
Project:	BMG Landfarm	**Date Received:**	6/17/2009
Lab ID:	0906329-02	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/24/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2009
Surr: DNOP	104	61.7-135		%REC	1	6/24/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/23/2009 5:23:46 AM
Surr: BFB	80.4	58.8-123		%REC	1	6/23/2009 5:23:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	6/23/2009 5:23:46 AM
Toluene	ND	0.050		mg/Kg	1	6/23/2009 5:23:46 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/23/2009 5:23:46 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/23/2009 5:23:46 AM
Surr: 4-Bromofluorobenzene	89.5	66.8-139		%REC	1	6/23/2009 5:23:46 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	16	3.0		mg/Kg	10	6/23/2009 4:04:51 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Jul-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3
Lab Order:	0906329	**Collection Date:**	6/15/2009 12:52:00 PM
Project:	BMG Landfarm	**Date Received:**	6/17/2009
Lab ID:	0906329-03	**Matrix:**	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/24/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2009
Surr: DNOP	102	61.7-135		%REC	1	6/24/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/23/2009 5:54:22 AM
Surr: BFB	85.4	58.8-123		%REC	1	6/23/2009 5:54:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	6/23/2009 5:54:22 AM
Toluene	ND	0.050		mg/Kg	1	6/23/2009 5:54:22 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/23/2009 5:54:22 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/23/2009 5:54:22 AM
Surr: 4-Bromofluorobenzene	97.0	66.8-139		%REC	1	6/23/2009 5:54:22 AM
EPA METHOD 300.0: ANIONS						Analyst: **RAGS**
Chloride	22	3.0		mg/Kg	10	6/23/2009 4:22:16 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Jul-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TRIP BLANK
Lab Order:	0906329	**Collection Date:**	
Project:	BMG Landfarm	**Date Received:**	6/17/2009
Lab ID:	0906329-04	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/20/2009 2:17:14 AM
Toluene	ND	1.0		µg/L	1	6/20/2009 2:17:14 AM
Ethylbenzene	ND	1.0		µg/L	1	6/20/2009 2:17:14 AM
Xylenes, Total	ND	2.0		µg/L	1	6/20/2009 2:17:14 AM
Surr: 4-Bromofluorobenzene	85.9	65.9-130		%REC	1	6/20/2009 2:17:14 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Jul-09*

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	0906329	**Collection Date:**	6/15/2009 2:25:00 PM
Project:	BMG Landfarm	**Date Received:**	6/17/2009
Lab ID:	0906329-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/22/2009
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/22/2009
Surr: DNOP	121	58-140		%REC	1	6/22/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/20/2009 2:47:33 AM
Surr: BFB	74.9	59.9-122		%REC	1	6/20/2009 2:47:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/20/2009 2:47:33 AM
Toluene	ND	1.0		µg/L	1	6/20/2009 2:47:33 AM
Ethylbenzene	ND	1.0		µg/L	1	6/20/2009 2:47:33 AM
Xylenes, Total	ND	2.0		µg/L	1	6/20/2009 2:47:33 AM
Surr: 4-Bromofluorobenzene	81.5	65.9-130		%REC	1	6/20/2009 2:47:33 AM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Chloride	29	2.0		mg/L	20	6/22/2009 5:42:39 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**
Total Dissolved Solids	780	100		mg/L	1	6/18/2009

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Animas Environmental Services
0906329
BMG Landfarm
0906329-06

Client Sample ID: MW-2
Collection Date: 6/15/2009 3:34:00 PM
Date Received: 6/17/2009
Matrix: AQUEOUS

	Result	PQL	Qual	Units	DF	Date Analyzed	I
)D 8015B: DIESEL RANGE						Analyst: **SCC**	**SCC**
Organics (DRO)	ND	1.0		mg/L	1	6/22/2009	
ge Organics (MRO)	ND	5.0		mg/L	1	6/22/2009	
)P	119	58-140		%REC	1	6/22/2009	
) 8015B: GASOLINE RANGE						Analyst: **NSB**	**NSB**
nge Organics (GRO)	ND	0.050		mg/L	1	6/20/2009 3:18:10 AM	PM
	78.3	59.9-122		%REC	1	6/20/2009 3:18:10 AM	PM
) 8021B: VOLATILES						Analyst: **NSB**	**NSB**
	ND	1.0		µg/L	1	6/20/2009 3:18:10 AM	PM
	ND	1.0		µg/L	1	6/20/2009 3:18:10 AM	PM
	ND	1.0		µg/L	1	6/20/2009 3:18:10 AM	PM
al	ND	2.0		µg/L	1	6/20/2009 3:18:10 AM	PM
omofluorobenzene	87.0	65.9-130		%REC	1	6/20/2009 3:18:10 AM	PM
) 300.0: ANIONS						Analyst: **TAF**	**TAF**
	31	2.0		mg/L	20	6/22/2009 6:17:28 PM	PM
D: TOTAL DISSOLVED SOLIDS						Analyst: **KMS**	**KMS**
ed Solids	750	100		mg/L	1	6/18/2009	

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

d

ental Services

Client Sample ID: MW-4
Collection Date: 6/15/2009 1:47:00 PM
Date Received: 6/17/2009
Matrix: AQUEOUS

-3
/1 2009 4:07:00 PM
2009
EOUS

Result	PQL	Qual	Units	DF	Date Analyzed	F	Date Analyzed
GE					Analyst: **SCC**		Analyst: **SCC**
ND	1.0		mg/L	1	6/22/2009		6/22/2009
ND	5.0		mg/L	1	6/22/2009		6/22/2009
125	58-140		%REC	1	6/22/2009		6/22/2009
ANGE					Analyst: **NSB**		Analyst: **NSB**
ND	0.050		mg/L	1	6/20/2009 9:23:32 AM		6/20/2009 3:48:35 AM
75.3	59.9-122		%REC	1	6/20/2009 9:23:32 AM		6/20/2009 3:48:35 AM
					Analyst: **NSB**		Analyst: **NSB**
ND	1.0		µg/L	1	6/20/2009 9:23:32 AM		6/20/2009 3:48:35 AM
ND	1.0		µg/L	1	6/20/2009 9:23:32 AM		6/20/2009 3:48:35 AM
ND	1.0		µg/L	1	6/20/2009 9:23:32 AM		6/20/2009 3:48:35 AM
ND	2.0		µg/L	1	6/20/2009 9:23:32 AM		6/20/2009 3:48:35 AM
81.4	65.9-130		%REC	1	6/20/2009 9:23:32 AM		6/20/2009 3:48:35 AM
					Analyst: **TAF**		Analyst: **TAF**
19	2.0		mg/L	20	6/22/2009 8:01:57 PM	)	6/22/2009 6:52:18 PM
SOLIDS					Analyst: **KMS**		Analyst: **KMS**
1000	200		mg/L	1	6/18/2009		6/18/2009

n Contaminant Level
quantitation limits
orting Limit
ccepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

he associated Method Blank
eparation or analysis exceeded
am ant Level

Date: 08-Jul-09

QA/QC SUMMARY REPORT

tal Services

Work Order: 0906329

Work Order: 0906329

lt	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	MBLK			Batch ID: **19429**		Analysis Date:	6/22/2009 10:16:40 PM	
	mg/Kg	0.30						
	LCS			Batch ID: **19429**		Analysis Date:	6/22/2009 10:34:05 PM	
	mg/Kg	0.30	99.5	90	110			
	MBLK			Batch ID: **R34187**		Analysis Date:	6/22/2009 9:35:10 AM	
	mg/L	0.10						
	MBLK			Batch ID: **R34209**		Analysis Date:	6/23/2009 9:51:11 AM	
	mg/L	0.10						
	MBLK			Batch ID: **R34227**		Analysis Date:	6/24/2009 9:16:04 AM	
	mg/L	0.10						
	LCS			Batch ID: **R34187**		Analysis Date:	6/22/2009 9:52:34 AM	
	mg/L	0.10	97.6	90	110			
	LCS			Batch ID: **R34209**		Analysis Date:	6/23/2009 10:08:36 AM	
	mg/L	0.10	98.6	90	110			
	LCS			Batch ID: **R34227**		Analysis Date:	6/24/2009 9:33:29 AM	
)	mg/L	0.10	98.4	90	110			
ge Organics								
	MBLK			Batch ID: **19392**		Analysis Date:	6/19/2009	
	mg/Kg	10						
	mg/Kg	50						
	LCS			Batch ID: **19392**		Analysis Date:	6/19/2009	
	mg/Kg	10	77.3	64.6	116			
	LCSD			Batch ID: **19392**		Analysis Date:	6/19/2009	
	mg/Kg	10	77.7	64.6	116	0.423	17.4	
nge								
	MBLK			Batch ID: **19416**		Analysis Date:	6/22/2009	
	mg/L	1.0						
	mg/L	5.0						
	LCS			Batch ID: **19416**		Analysis Date:	6/22/2009	
	mg/L	1.0	106	74	157			
	LCSD			Batch ID: **19416**		Analysis Date:	6/22/2009	
	mg/L	1.0	102	74	157	3.12	23	
ange								
	MBLK			Batch ID: **R34192**		Analysis Date:	6/22/2009 9:38:06 AM	
	mg/Kg	5.0						
	LCS			Batch ID: **R34192**		Analysis Date:	6/23/2009 12:19:14 AM	
	mg/Kg	5.0	95.8	64.4	133			

)	RPDLimit	Qual
is Date:	6/19/2009 9:36:06 AM	
s Date:	6/20/2009 7:21:32 AM	
s Date:	6/22/2009 9:38:06 AM	
s Date:	6/19/2009 8:42:30 PM	
	S	
i Date:	6/20/2009 6:51:05 AM	
	S	
Date:	6/23/2009 12:49:39 AM	
Date:	6/18/2009	
Date:	6/23/2009	
Date:	6/18/2009	
Date:	6/23/2009	

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Page 3

Inc.

ımple Receipt Checklist

Date Received: 6/17/2009

Received by: TLS

Sample ID labels checked by: _____ Initials

6/17/09 Date

ıame: Greyhound

Yes ☑	No ☐	Not Present ☐	
Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Yes ☑	No ☐	N/A ☐	
Yes ☑	No ☐		
Yes ☑	No ☐		
Yes ☑	No ☐		
Yes ☑	No ☐		
Yes ☑	No ☐		
Yes ☑	No ☐		
Yes ☑	No ☐		
s submitted ☐	Yes ☑	No ☐	
Yes ☐	No ☐	N/A ☑	
Yes ☐	No ☐	N/A ☑	

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

4.9° *<6° C Acceptable*
If given sufficient time to cool.

: _____ Person contacted _____

13

Date: *08-Jul-09*

PORT

Work Order: 0906329

im	HighLimit	%RPD	RPDLimit	Qual
atc	ID: **R34172**	Analysis Date:	6/20/2009 4:49:33 AM	
	115	1.39	8.39	
atc	ID: **R34172**	Analysis Date:	6/19/2009 9:36:06 AM	
	ID: **R34192**	Analysis Date:	6/22/2009 9:38:06 AM	
ıtc	ID: **R34172**	Analysis Date:	6/20/2009 5:19:49 AM	
	115			
	ID: **R34192**	Analysis Date:	6/23/2009 12:19:14 AM	
	115			
	ID: **R34172**	Analysis Date:	6/20/2009 4:19:05 AM	
	115			
	D: **R34192**	Analysis Date:	6/23/2009 2:51:35 AM	
	132	1.23	27	
	112	1.87	19	
	125	3.77	10	
	128	4.73	13	
tcl	D: **R34192**	Analysis Date:	6/22/2009 9:38:06 AM	
	D: **R34192**	Analysis Date:	6/23/2009 12:49:39 AM	
	132			
	112			
	125			
	128			
ch	D: **R34192**	Analysis Date:	6/23/2009 2:21:12 AM	
	132			
	112			
	125			
	128			

... tion or analysis exceeded
tep ting Limit
le ı cepted recovery limits

Page 2