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Animas Environmental Services, LLC

www.animasenvironmental.com

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> Durango, Colorado 970-403-3274

April 27, 2012

Glenn von Gonten New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE:

1st Quarter 2012 Groundwater Monitoring Report for Williams Four Corners, LLC, Sammons #2 Pipeline December 2009 Release, Flora Vista, San Juan County, New Mexico

Dear Mr. von Gonten:

Animas Environmental Services, LLC (AES), on behalf of Williams Four Corners, LLC, has prepared this 1st Quarter 2012 Groundwater Monitoring Report for the Sammons #2 Pipeline December 2009 Release in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations. The subject site is located near Flora Vista, San Juan County, New Mexico.

A quarterly groundwater monitoring and sampling event was completed February 20, 2012, in accordance with a workplan previously prepared by AES and dated March 3, 2011. The workplan was submitted to the NMOCD for review prior to implementing the proposed scope of work.

1.0 Site Information

1.1 Site Location

The general project area is located in a rural area approximately 0.1 mile east of County Road 3000 on private property owned by Ms. Helen Clark. The spill location is located approximately 140 feet southeast of a wetland area that is adjacent to the Animas River. The project area is described legally as within the SE½ NE½ Section 32, T30N, R12W, in Flora Vista, San Juan County, New Mexico. Longitude and latitude were recorded as being N36.77173 and W108.11515. A topographic site location map is included as Figure 1, and a General Site Plan is presented as Figure 2.

1.2 Spill History

On December 3, 2009, trenching operations during routine pipeline replacement activities uncovered petroleum hydrocarbon contaminated soils. Williams was in the process of replacing an in-service 2-inch diameter natural gas pipeline with a new 4-inch diameter natural gas pipeline. The pipeline connects the Sammons 2 well locations, which are owned by Conoco Phillips. The volume of natural gas condensate released into the surrounding environment and the length of time that the 2-inch diameter pipeline was leaking are unknown.

Initial remedial activities were completed between December 7 and 17, 2009, and included excavation of approximately 1,884 cubic yards of petroleum contaminated soil (PCS) and removal of 1,122 barrels (bbls) of petroleum contaminated groundwater. Petroleum contaminated soil and groundwater were transported to Industrial Ecosystems, Inc. (IEI) on Crouch Mesa, San Juan County, for disposal. Soil excavation and removal activities were documented in the *Remedial Activities Report for Sammons #2 Pipeline 2009 Spill*, prepared by AES and dated January 11, 2010.

Six 1-inch diameter groundwater monitoring wells were installed and sampled at the site in April 2010. Analytical results from groundwater samples collected during the April 2010 sampling event showed benzene concentrations exceeded the New Mexico Water Quality Control Commission (WQCC) standard of 10 μ g/L in one well, MW-1 (11 μ g/L). The remaining wells had benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations either below laboratory detection limits or well below applicable WQCC standards.

Diesel and motor oil range organics were below laboratory detection limits for all wells sampled. Low level gasoline range organics (GRO) were detected in MW-2, MW-4, MW-5, and MW-6. Based on the laboratory results, AES recommended continued quarterly groundwater monitoring at the site for at least a year.

Groundwater investigation details are included within the *Site Investigation Report* prepared by AES and dated May 5, 2010. Subsequent quarterly groundwater monitoring events were conducted in July and October 2010, and January, April, August and November 2011. Groundwater monitor reports were prepared and submitted in August and November 2010 and in February, May, August, and December 2011.

2.0 Groundwater Monitoring and Sampling February - 2012

On February 20, 2012, groundwater monitoring and sampling were conducted in MW-1 through MW-5 by AES. Monitor well MW-6 was not sampled because the water in the well was frozen. Work was completed in accordance with the workplan prepared by AES and dated March 3, 2011, and also in accordance with U.S. Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs), and applicable American Society of Testing and Materials (ASTM) standards.

2.1 Groundwater Measurements and Water Quality

Prior to sample collection, depth to groundwater in each well was measured with a Keck Water Level Indicator, and water quality data was measured with a YSI Water Quality Meter. Water quality measurements were recorded and included pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP). Depth to groundwater measurements and water quality data were recorded onto Water Sample Collection forms.

Depths to groundwater varied across the site and were observed to range from 1.23 feet below top of casing (TOC) in MW-5 to 3.06 feet below TOC in MW-1. The groundwater gradient was calculated to be approximately 0.01 ft/ft to the northwest, which is consistent with previous site data. Note that the site is considered to have groundwater under the direct influence (GUDI) of the Animas River.

Following depth to water measurement, each well was purged with a disposable bailer until recorded temperature, pH, conductivity, and DO measurements were stabilized. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 3.16°C to 5.74°C, and conductivity ranged from 1.749 mS to 3.869 mS. DO concentrations were between 0.36 mg/L in MW-5 and 1.13 mg/L in MW-1, and pH ranged from 6.81 to 7.15. Although DO was recorded during field activities, it should be noted that due to the use of bailers, the accuracy of dissolved oxygen measurements is limited. Depth to groundwater measurements and water quality data are summarized in Table 1, and groundwater elevation contours are presented in Figure 2. Water Sample Collection forms are presented in Appendix A.

2.2 Groundwater Laboratory Analyses

Groundwater samples were collected with new disposable bailers from a total of five monitor wells and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. Samples were shipped in insulated coolers containing ice at less than 6°C to Hall Environmental Analytical Laboratory (Hall) in

Albuquerque, New Mexico. All groundwater analytical samples were analyzed for BTEX per USEPA Method 8021B.

2.2.1 Groundwater Analytical Results

Analytical results from groundwater samples collected during the February 2012 sampling event showed that BTEX concentrations were reported below the laboratory detection limits or applicable WQCC regulatory limits in all monitor wells (MW-1 through MW-5). Groundwater analytical results are included in Table 2 and on Figure 3. Groundwater analytical laboratory reports are presented in Appendix A.

3.0 Conclusion and Recommendations

On February 20, 2012, AES personnel conducted groundwater monitoring and sampling at the Sammons #2 Pipeline December 2009 Release location. Depths to groundwater varied across the site and were observed to exist at about 1.23 to 3.06 feet below TOC, and groundwater gradient was calculated to be approximately 0.01 ft/ft to the northwest, which is consistent with previous site data.

Groundwater analytical results showed that contaminants of concern (BTEX) were below applicable WQCC standards for the eighth consecutive quarter in MW-1, MW-3, MW-4, and MW-5. Dissolved phase benzene concentrations in MW-2 have remained below the WQCC standard for seven consecutive quarters. Monitor well MW-6 has remained below applicable WQCC standards for seven consecutive quarters but was not sampled in February 2012 because the water was frozen.

Based on current site data and in accordance with the project workplan, AES will conduct one additional quarterly sampling event for MW-2 and MW-6 to ensure eight consecutive quarters of groundwater contaminant concentrations below WQCC standards. The next sampling event is tentatively scheduled for May 2012.

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

Sincerely,

Deborah Watson Project Manager

Nebrah Water

Elizabeth V MeNelly

Elizabeth McNally, P.E. New Mexico Registration #15799

Attachments:

Tables

Table 1. Groundwater Measurement and Water Quality Data

Table 2. Groundwater Analytical Results

Figures

Figure 1. Topographic Site Location Map

Figure 2. General Site Plan and Groundwater Elevations, February 2012

Figure 3. Groundwater Analytical Results, February 2012

Appendix A

Water Sample Collection Forms
Groundwater Analytical Laboratory Reports (Hall 1202678)

cc: Brandon Powell

New Mexico Oil Conservation Division

1000 Rio Brazos Road Aztec, New Mexico 87410

Mark Potochnik Williams -Midstream

188 CR 4900

Bloomfield, NM 87413

Nick Clark

719 Otten Street Aztec, NM 87410

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
Williams Four Corners #2 Pipeline December 2009 Release

Flora Vista, San Juan County, New Mexico

| | | | ſ | | | | | | I |
|---------|-----------------|------------------------|----------------------|------------------|--------------------|-------------------|--------------|------|-------------|
| Well ID | Date Sampled | Depth to Water (ft) | Surveyed TOC (ft) | GW Elev. (ft) | Temperature (C) | Conductivity (mS) | DO (mg/L) | рH | ORP (mV) |
| MW-1 | 20-Apr-10 | 2.43 | 5427.26 | 5424.83 | 10.19 | 4.392 | 0.43 | 7.05 | 35.1 |
| MW-1 | 20-Jul-10 | 2.05 | 5427.26 | 5425.21 | 14.75 | 1.108 | 1.76 | 7.14 | -89.7 |
| MW-1 | 28-Oct-10 | 1.95 | 5427.26 | 5425.31 | 11.84 | 3.797 | 0.67 | 7.03 | -71.0 |
| MW-1 | 25-Jan-11 | 3.21 | 5427.26 | 5424.05 | 6.45 | 3.357 | 2.77 | 7.40 | -13.8 |
| MW-1 | 27-Apr-11 | 1.97 | 5427.26 | 5425.29 | 10.16 | 3.472 | 3.92 | 7.12 | -6.7 |
| MW-1 | 11-Aug-11 | 2.68 | 5427.26 | 5424.58 | 15.31 | 0.885 | 0.92 | 6.98 | -111.0 |
| MW-1 | 08-Nov-11 | 1.89 | 5427.26 | 5425.37 | 10.66 | 2.674 | 2.02 | 6.78 | -102.8 |
| MW-1 | 20-Feb-12 | 3.06 | 5427.26 | 5424.20 | 5.74 | 3.869 | 1.13 | 6.81 | -79.9 |
| | | | | | | | | | |
| MW-2 | 20-Apr-10 | 1.11 | 5424.98 | 5423.87 | 10.37 | 1.670 | 0.20 | 7.39 | -132.7 |
| MW-2 | 20-Jul-10 | 0.91 | 5424.98 | 5424.07 | 19.09 | 0.930 | 1.84 | 7.26 | -99.3 |
| MW-2 | 28-Oct-10 | 0.92 | 5424.98 | 5424.06 | 11.52 | 0.719 | 0.22 | 7.45 | -103.5 |
| MW-2 | 25-Jan-11 | 1.74 | 5424.98 | 5423.24 | 4.55 | 1.621 | 2.20 | 7.59 | -66.8 |
| MW-2 | 27-Apr-11 | 0.95 | 5424.98 | 5424.03 | 9.69 | 1.659 | 1.76 | 7.31 | -102.5 |
| MW-2 | 11-Aug-11 | 1.34 | 5424.98 | 5423.64 | 17.21 | 0.753 | 0.24 | 7.05 | -144.7 |
| MW-2 | 08-Nov-11 | 0.83 | 5424.98 | 5424.15 | 8.61 | 1.746 | 0.64 | 7.36 | -115.3 |
| MW-2 | 20-Feb-12 | 1.67 | 5424.98 | 5423.31 | 3.16 | 2.106 | 0.57 | 7.15 | -65.0 |
| | | | | | | | | | |
| MW-3 | 20-Apr-10 | 1.77 | 5425.44 | 5423.67 | 9.73 | 2.005 | 0.24 | 7.21 | -69.0 |
| MW-3 | 20-Jul-10 | 1.56 | 5425.44 | 5423.88 | 17.89 | 0.842 | 1.52 | 7.22 | -85.6 |
| MW-3 | 28-Oct-10 | 1.66 | 5425.44 | 5423.78 | 12.61 | 0.670 | 0.18 | 7.43 | -108.4 |
| MW-3 | 25-Jan-11 | 2.36 | 5425.44 | 5423.08 | 6.13 | 1.438 | 1.70 | 7.63 | -63.5 |
| MW-3 | 27-Apr-11 | 1.61 | 5425.44 | 5423.83 | 10.70 | 1.481 | 1.80 | 7.34 | -111.5 |
| MW-3 | 11-Aug-11 | 1.95 | 5425.44 | 5423.49 | 17.42 | 0.683 | 0.22 | 7.03 | -127.2 |
| MW-3 | 08-Nov-11 | 1.56 | 5425.44 | 5423.88 | 10.66 | 0.750 | 0.37 | 7.46 | -156.1 |
| MW-3 | 20-Feb-12 | 2.26 | 5425.44 | 5423.18 | 5.14 | 1.923 | 0.40 | 7.10 | -110.3 |
| | | | | | | | | | |
| MW-4 | 20-Apr-10 | 1.59 | 5424.38 | 5422.79 | 9.60 | 2.174 | 0.22 | 7.29 | -88.4 |

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
Williams Four Corners #2 Pipeline December 2009 Release
Flora Vista, San Juan County, New Mexico

| Well ID | Date | Depth to | Surveyed | GW Elev. | Temperature | Conductivity | DO | | ORP |
|---------|------------|------------|----------|----------|-------------|--------------|--------|------|--------------------|
| | Sampled | Water (ft) | TOC (ft) | (ft) | (C) | (mS) | (mg/L) | pН | (mV) |
| MW-4 | 20-Jul-10 | 1.44 | 5424.38 | 5422.94 | 16.39 | 1.061 | 1.29 | 7.17 | -87.7 |
| MW-4 | 28-Oct-10 | 1.39 | 5424.38 | 5422.99 | 14.48 | 1.026 | 0.22 | 7.28 | -111.1 |
| MW-4 | 25-Jan-11 | 1.84 | 5424.38 | 5422.54 | 6.88 | 1.465 | 2.55 | 7.52 | -56.2 |
| MW-4 | 27-Apr-11 | 1.40 | 5424.38 | 5422.98 | 11.21 | 1.560 | 1.40 | 7.35 | -136.8 |
| MW-4 | 11-Aug-11 | 1.77 | 5424.38 | 5422.61 | 17.12 | 0.960 | 0.12 | 6.96 | -135.2 |
| MW-4 | 08-Nov-11 | 1.26 | 5424.38 | 5423.12 | 11.93 | 1.125 | 0.68 | 7.26 | -145.8 |
| MW-4 | 20-Feb-12 | 1.76 | 5424.38 | 5422.62 | 5.31 | 1.909 | 0.37 | 7.03 | -113.7 |
| | | | | | | | | | |
| MW-5 | 20-Apr-10 | 1.00 | 5424.17 | 5423.17 | 9.88 | 3.140 | 0.21 | 7.37 | -102.6 |
| MW-5 | 20-Jul-10 | 0.86 | 5424.17 | 5423.31 | 20.50 | 1.440 | 1.03 | 6.98 | -93.5 |
| MW-5 | 28-Oct-10 | 0.75 | 5424.17 | 5423.42 | 15.62 | 1.650 | 0.30 | 7.09 | -91.7 |
| MW-5 | 25-Jan-11 | 1.32 | 5424.17 | 5422.85 | 6.15 | 1.707 | 2.94 | 7.49 | -53.3 |
| MW-5 | 27-Apr-11 | 0.84 | 5424.17 | 5423.33 | 10.69 | 1.948 | 0.73 | 7.22 | -111.1 |
| MW-5 | 11-Aug-11 | 1.33 | 5424.17 | 5422.84 | 18.48 | 1.647 | 0.16 | 6.75 | -127.8 |
| MW-5 | 08-Nov-11 | 0.60 | 5424.17 | 5423.57 | 10.51 | 8.303 | 0.60 | 7.14 | - 9 8.7 |
| MW-5 | 20-Feb-12 | 1.23 | 5424.17 | 5422.94 | 5.19 | 1.749 | 0.36 | 7.06 | -109.5 |
| | | | | | | | | | |
| MW-6 | 20-Apr-10 | 1.04 | 5424.91 | 5423.87 | 11.09 | 2.277 | 0.22 | 7.28 | -113.6 |
| MW-6 | 20-Jul-10 | 0.89 | 5424.91 | 5424.02 | 21.57 | 1.399 | 1.06 | 6.93 | -82.3 |
| MW-6 | 28-Oct-10 | 0.68 | 5424.91 | 5424.23 | 11.93 | 1.482 | 0.21 | 7.12 | -89.6 |
| MW-6 | 25-Jan-11 | 1.51 | 5424.91 | 5423.40 | 4.67 | 1.726 | 6.51 | 7.47 | -30.9 |
| MW-6 | _27-Apr-11 | 0.81 | 5424.91 | 5424.10 | 11.76 | 1.662 | 2.38 | 7.20 | -96.5 |
| MW-6 | 11-Aug-11 | 1.43 | 5424.91 | 5423.48 | 22.41 | 1.657 | 0.60 | 6.70 | -121.0 |
| MW-6 | 08-Nov-11 | 0.35 | 5424.91 | 5424.56 | 6.33 | 6.248 | 0.67 | 7.43 | -58.9 |
| MW-6 | 20-Feb-12 | | | | NOT SAMPL | .ED/ FROZEN | | | |

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Williams Four Corners #2 Pipeline December 2009 Release
Flora Vista, San Juan County, New Mexico

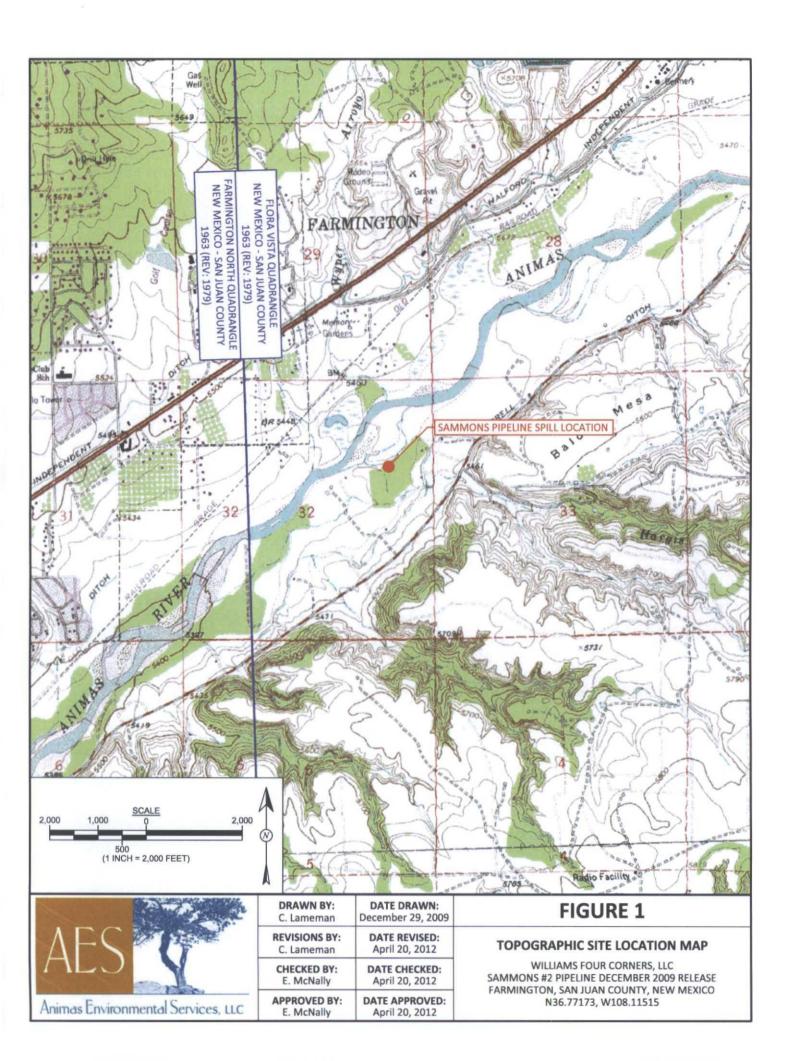
| | Date | | | Ethyl- | Total | GRO | DRO | MPO |
|----------|------------------------|-------------|--------------|------------|------------|----------|-----------|------------------|
| Well ID | Sampled | Benzene | Toluene | Benzene | Xylenes | (C6-C10) | (C10-C22) | MRO (C22-C32) |
| | Jumpieu | (μg/L) | (μg/L) | (μg/L) | // (μg/L) | (mg/L) | (mg/L) | (mg/L) |
| Analytic | al Method | 8260B/8021 | 8260B/8021 | 8260B/8021 | 8260B/8021 | 8015 | 8015 | 8015 |
| | CC Standard | 10 | 750 | 750 | 620 | NE NE | NE NE | NE NE |
| MW-1 | 20-Apr-10 | <1.0 | <1.0 | <1.0 | <1.5 | <0.050 | <1.0 | <5.0 |
| MW-1 | 20 Apr 10 20-Jul-10 | <1.0 | <1.0 | <1.0 | <1.5 | <0.050 | <1.0 | <5.0 |
| MW-1 | 28-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 25-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-1 | 27-Apr-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA NA | NA NA |
| MW-1 | 11-Aug-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA NA | NA NA | NA NA |
| MW-1 | 08-Nov-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA NA | NA NA | NA NA |
| MW-1 | 08-Nov-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA NA | NA |
| MW-1 | 20-Feb-12 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA NA | NA NA |
| | | | | | | | | |
| MW-2 | 20-Apr-10 | 11 | <1.0 | 2.4 | 22 | 1.1 | <1.0 | <5.0 |
| MW-2 | 20-Jul-10 | <1.0 | <1.0 | <1.0 | <1.5 | <0.050 | <1.0 | <5.0 |
| MW-2 | 28-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 25-Jan-11 | 2.6 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-2 | 27-Apr-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-2 | 11-Aug-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-2 | 08-Nov-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-2 | 20-Feb-12 | 1.6 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| | | | | | | | | |
| MW-3 | 20-Apr-10 | <1.0 | <1.0 | <1.0 | <1.5 | <0.050 | <1.0 | <5.0 |
| MW-3 | 20-Jul-10 | <1.0 | <1.0 | <1.0 | <1.5 | <0.050 | <1.0 | <5.0 |
| MW-3 | 28-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 25-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-3 | 27-Apr-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-3 | 11-Aug-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-3 | 08-Nov-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-3 | 20-Feb-12 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| ***** | | | | | | | | |
| MW-4 | 20-Apr-10 | 9.9 | <1.0 | <1.0 | <1.5 | 0.074 | <1.0 | <5.0 |
| MW-4 | 20-Jul-10 | <1.0 | <1.0 | <1.0 | <1.5 | <0.050 | <1.0 | <5.0 |
| MW-4 | 28-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 25-Jan-11 | 2.5 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-4 | 27-Apr-11 | 2.1 | <1.0 | <1.0 | <2.0 | NA NA | NA NA | NA NA |
| MW-4 | 11-Aug-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA NA | NA NA | NA NA |
| MW-4 | 08-Nov-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA NA | NA NA | NA NA |
| MW-4 | 20-Feb-12 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-5 | 20-Apr 10 | 9.7 | -10 | ~1 A | ,1 E | 0.055 | -1.0 | 4F.O |
| MW-5 | 20-Apr-10 20-Jul-10 | <1.0 | <1.0 <1.0 | <1.0 | <1.5 | 0.055 | <1.0 | <5.0 |
| MW-5 | 28-Oct-10 | <1.0 | <1.0 | <1.0 | <1.5 | <0.050 | <1.0 | <5.0 |
| MW-5 | 25-Uct-10 25-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-5 | | | | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| INIAA-2 | 27-Apr-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |

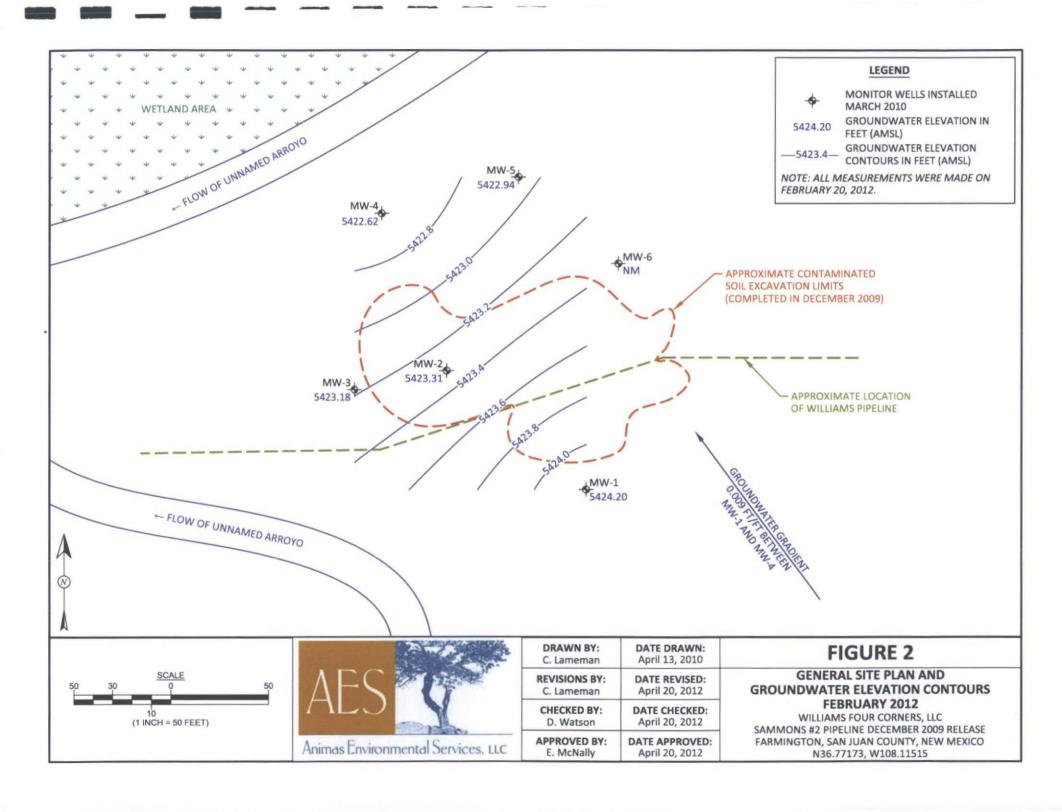
TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS Williams Four Corners #2 Pipeline December 2009 Release Flora Vista, San Juan County, New Mexico

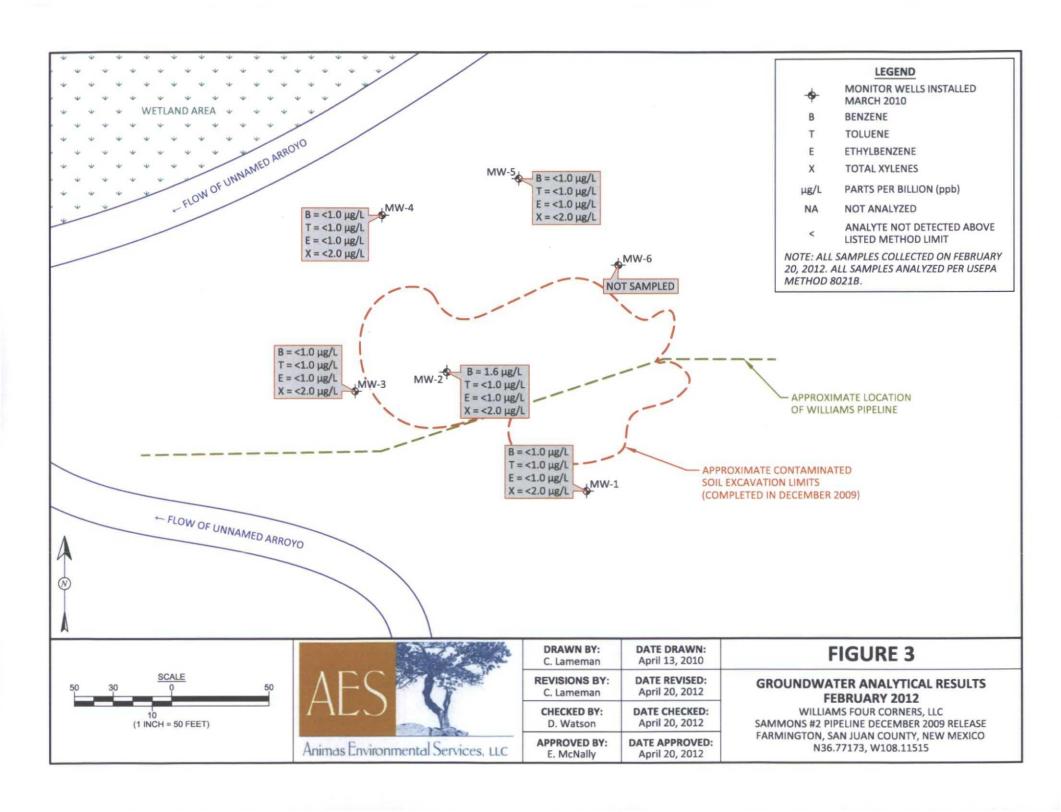
| Well ID | Date Sampled | Benzene | Toluene | Ethyl- Benzene | Total Xylenes | GRO (C6-C10) | DRO (C10-C22) | MRO (C22-C32) |
|----------------|-----------------|------------|------------|-------------------|------------------|-----------------|------------------|------------------|
| | | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (mg/L) | (mg/L) | (mg/L) |
| Analytic | al Method | 8260B/8021 | 8260B/8021 | 8260B/8021 | 8260B/8021 | 8015 | 8015 | 8015 |
| WC | CC Standard | 10 | 750 | 750 | 620 | NE | NE | ΝE |
| MW-5 | 11-Aug-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-5 | 08-Nov-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-5 | 20-Feb-12 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| | | | | | | | | |
| MW-6 | 20-Apr-10 | 4.6 | <1.0 | 11 | 47 | 3.2 | <1.0 | <5.0 |
| MW-6 | 20-Jul-10 | <1.0 | <1.0 | <1.0 | <1.5 | 0.079 | <1.0 | <5.0 |
| MW-6 | 28-Oct-10 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 25-Jan-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 27-Apr-11 | <1.0 | <1.0 | <1.0 | <2.0 | <0.050 | <1.0 | <5.0 |
| MW-6 | 11-Aug-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-6 | 08-Nov-11 | <1.0 | <1.0 | <1.0 | <2.0 | NA | NA | NA |
| MW-6 | 20-Feb-12 | | N | ot sampled-Gro | oundwater froz | en in well | | |
| | | | | | | | | |
| Field Blank | 22-Apr-10 | <1.0 | <1.0 | <1.0 | <1.5 | NA | NA | NA |

Notes: < - Analyte below laboratory detection limit

NA - Not Analyzed
NE - Not Established







DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

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

Groundwater Monitoring Project No.: AES 091204 Project: Williams Sammons #2 Pipeline Spill Site:

Date: 2-20-12

Location: Flora Vista, San Juan County, New Mexico Tech: N. Willis

Time: 1048 Form: 1 of 1

| Well I.D. | Time | Depth to NAPL (ft.) | Depth to Water (ft.) | NAPL Thickness (ft.) | Notes / Observations |
|--------------|----------|------------------------|-------------------------|-------------------------|--|
| MW-1 | 1110 | | 3.06 | | |
| MW-2 | 1142 | · | 1.67 | | |
| MW-3 | 1212 | | 2.26 | | |
| MW-4 | 1242 | | 1.76 | | |
| MW-5 | 1311 | _ | 1. Z3 | | |
| MW-6 | 1337 | | | | Whater in well is frozen, unable to disladge in in well, Depth + ice = 0.0 ft. |
| | | | | | to disladge in in well, Depth + |
| | | | | | ice = 0.0 ft. |
| | | | | | |
| | <u></u> | | | | |
| | <u> </u> | | | | |
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Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

| MONI | TORING W | ELL SAMPLI | NG REC | Aı | Animas Environmental Services | | | | | | |
|-------------|---|------------------|----------------|--|---|--------------------------------------|--|--|--|--|--|
| Mon | itor Well No: | MW | -1 | 6 | 624 E. Comanche, Farmington NM 87401 | | | | | | |
| | intel Wen No. | | 3 | Tel. (505) 564-2281 Fax (505) 324-2022 | | | | | | | |
| Site: | Williams San | nmons #2 Pipelir | ne Spill | | Project No.: AES 091: | | | | | | |
| | | San Juan County | | ico | - | Date: 2-20- | | | | | |
| | | Monitoring and | | | - | Arrival Time: 이니요 | | | | | |
| Sampling | g Technician: | N. Wi | Ilis | | - - | Air Temp: 30° | 2 | | | | |
| Purg | e / No Purge: | Purg | | | T.O | .C. Elev. (ft): 542 | 7.26 | | | | |
| Weli | Diameter (in): | 1 | | · | Total We | ell Depth (ft): 5 | | | | | |
| Initi | al D.T.W. (ft): | | Time: | | *************************************** | (taken at initial gauging | | | | | |
| Contin | m D. Γ.W. (π): al D.T.W. (ft): | 3.06 | Time: Time: | 11/0 | | (taken prior to purging | • | | | | |
| | | | | , | Th | _(taken after sample col ickness: | | | | | |
| 11.14 | | | | | | | mne | | | | |
| | Water Quality Parameters - Recorded During Well Purging | | | | | | | | | | |
| Í | Temp | Conductivity | DO | | ORP | PURGED VOLUME | | | | | |
| Time | (deg C) | (µS) (mS) | (mg/L) | pН | (mV) | (see reverse for calc.) | Notes/Observations | | | | |
| 1117 | 5.86 | 4.147 | 2.46 | 6.98 | -13.1 | 5/32 gel. | | | | | |
| 1120 | 4.97 | 4.601 | 1.85 | 6.93 | -41.7 | 5/32 | | | | | |
| 1123 | 5.40 | 3.999 | 1.01 | 6.86 | -65.6 | 5/32 | | | | | |
| 1126 | 5.41 | 3.941 | 1,12 | 6.83 | -74.3 | 5/3z | | | | | |
| 1129 | 5,74 | 3.869 | 1.13 | 6.81 | -79.9 | 5/32 | | | | | |
| 1134 | | | | | | | Samples | | | | |
| | | | | | | | Collected | | | | |
| ····· | | | | | | | | | | | |
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| Analyt | ical Parame | ters (include a | analysis r | nethod a | and nur | nber and type of sar | mple containers) | | | | |
| | | | | - | | | | | | | |
| | E | BTEX Only per E | PA Method | 8021 (3 | - 40 mL \ | Vials w/ HCl preserve) | | | | | |
| | | | | | | | | | | | |
| | D | isposal of Purg | ed Water: | 4 | | | | | | | |
| Colle | cted Samples | s Stored on Ice | in Cooler: | Yes". | 749 AF | 《美艺》第二次第 | 3 | | | | |
| | • | ustody Record (| | . '7' | 114 | 3 . 7 . 7 . W. 17 . S. S. S. S. | | | | | |
| | | - | - | | ronment | al Analysis Laboratory, | · · · · · · · · · · · · · · · · · · · | | | | |
| Fauinm | ent Used Du | • | • | | | erface Level, YSI Water | | | | | |
| Equipiii | CIR OSCU DUI | | | | | extaltic Pump | Quanty Motor | | | | |
| Notes/Com | monte: | | view blopo | 34010 0411 | c. pact. | -Sializ Your | . 1.117, | | | | |
| TOTES/COM | menta. | | | | | | | | | | |
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| Prisert 08 | 1/10/09 | | ···· | | | | | | | | |

| | | ELL SAMPLI | | | Ai | nimas Environme | ental Services | | |
|-----------------------|--|--|------------------|-----------|---|--------------------------------------|--------------------|--|--|
| Monitor Well No: MW-2 | | | | | | 624 E. Comanche, Farmington NM 87401 | | | |
| | | | + k ₄ | _ | | Tel. (505) 564-22 <u>81</u> Fax | (505) 324-2022 | | |
| Site: | Williams Sam | mons #2 Pipelir | ne Spill | | | Project No.: AES 0912 | 204 | | |
| Location: | Flora Vista, S | an Juan County | , New Mex | ico | _ | Date: Z-20- | 12 | | |
| Project: | Groundwater | Monitoring and | Sampling | | | Arrival Time: 1139 | | | |
| Sampling | Technician: | N. Willi | 5 | | - | Air Temp: 32°F | | | |
| | | Purg | | | T.0 | .C. Elev. (ft): 542- | 4.98 | | |
| | | 1 | | | Total We | ell Depth (ft): 5. | 96 | | |
| Initi | al D.T.W. (ft): | | Time: | | | (taken at initial gauging | g of all wells) | | |
| Confir | m D.T.W. (ft): | 1.67 | Time: | 1142 | | (taken prior to purging | well) | | |
| Fina | al D.T.W. (ft): | | Time: | • | | (taken after sample coi | | | |
| If N | APL Present: | D.T.P.: | D.T.W | J.: | Th | ickness:T | ime: | | |
| | ٧ | Vater Quality | Paramete | rs - Rec | orded D | Ouring Well Purging | | | |
| | Temp | Conductivity | DO | | ORP | PURGED VOLUME | | | |
| Time | (deg C) | (µS) (mS) | (mg/L)_ | pН | (mV) | (see reverse for calc.) | Notes/Observations | | |
| 1148 | 3,70 | 2.981 | 2,82 | 7.15 | 15.1 | 0.25 gal. | | | |
| 1151 | . 3. 3.8 | .2.396 | 1.15 | 6.30 | -7.9 | 0.25 | | | |
| 1154 | 3.36 | 2.208 | 0.70 | 7.00 | -40,6 | 0.25 | | | |
| | | | | T | | | | | |
| 1157 | 3.32 | 2.161 | 0.64 | 7.06 | -54.9 | 0. 25 | | | |
| 1200 | 3, 1.6 | 2.106 | 0.57 | 7.15 | -65.0 | 0.25 | | | |
| 1205 | | | | | | | Sampos Collected | | |
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| Anabut | inal Parama | tors (include | analysis r | nothod | and nur | nber and type of sar | mple containers) | | |
| Anajyt | icai Parame | ters (include | anaiysis i | nemou | anu nui | niber and type or sar | mple containers) | | |
| | ······································ | | | | | ···· | | | |
| | | ITEX Only per E | PA Method | 8021 (3 | - 40 mL \ | Vials w/ HCl preserve) | | | |
| | | | | 7 | A 1981 | wife Art Petal Lang | | | |
| | | isposal of Purg | | 74 | 4 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Y3. | | |
| Colle | cted Samples | Stored on Ice | in Cooler: | | ri pri si | | | | |
| | Chain of Cu | stody Record | Complete: | Yes | | | <u>.</u> | | |
| | | Analytical La | aboratory: | Hali Envi | ronmenta | al Analysis Laboratory, | Albuquerque, NM | | |
| Fauinm | ent Used Dur | _ | _ | | | erface Level, YSI Water | | | |
| Equipin | ent Osea Dai | | | | | | Callity Meter | | |
| | | and | New Dispo | sable Bal | er yan | astaltic Pomp | | | |
| Notes/Com | ments: | | P | | | | | | |
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| revised, 00 | /10/09 | | | | | · | | | |

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| MON | ITORING W | ELL SAMPLI | NG REC | Animas Environmental Services | | | | | |
|---------------------------------------|-----------------|------------------|---|-------------------------------|--|--|---------------------------------------|--|--|
| Mon | itor Well No: | MW | -3 | 6 | 24 E. Comanche, Farm | ington NM 87401 | | | |
| ,,,,,,,,, | | | | | Tel. (505) 564-2281 Fax (505) 324-2022 | | | | |
| Site: | : Williams San | nmons #2 Pipelir | ne Spill | | Project No.: AES 091 | | | | |
| | | San Juan County | | _ | Date: 2 - 20 | | | | |
| | | Monitoring and | | | - | Arrival Time: 1210 | | | |
| | g Technician: | | | | - | Air Temp: 32 | °F | | |
| | e / No Purge: | | е | | T.O | Air Temp: 32 .C. Elev. (ft): 542 ell Depth (ft): 5 | 5.44 | | |
| F . | Diameter (in): | | | - - | Total We | ell Depth (ft):5 | .9 | | |
| 3 | al D.T.W. (ft): | | Time: | | | (taken at initial gauging | | | |
| | m D.T.W. (ft): | | Time: | 1212 | · | (taken prior to purging | | | |
| | al D.T.W. (ft): | | Time: | | | (taken after sample co | | | |
| If N | APL Present: | D.1.P.: | D.T.W | /.: | Ih | ickness:T | ime: | | |
| | ٧ | Vater Quality | Paramete | rs - Rec | orded D | ouring Well Purging | , | | |
| | Temp | Conductivity | DO | | ORP | PURGED VOLUME | | | |
| Time | (deg C) | (µS) (mS) | (mg/L) | рΗ | (mV) | (see reverse for calc.) | Notes/Observations | | |
| 1218 | 4.98 | 1.906 | 1.20 | 7,21 | -76.4 | 3/16 gal. | | | |
| 1221 | 5,11 | 1.909 | 0.52 | 7.17 | -94.9 | 3/16 | | | |
| 1224 | 5,25 | 1,919 | 0.35 | 7.14 | | 3/16 | | | |
| | 5.10 | 1.923 | 0.35 | | -104.5 | | | | |
| 1227 | | | | 7.12 | -108.3 -110.3 | 7/16 3/16 | | | |
| 12.30 | 5,14 | 1,923 | 0.40 | 7.10 | 110.3 | 716 | | | |
| 1235 | | | | | | | Samples | | |
| | | | | | | | Samples Collected | | |
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| Analyt | ical Parame | ters (include : | analysis r | nethod : | and nur | nber and type of sai | mnle containers) | | |
| Allalyt | icarr arame | ters (metade i | analysis i | nethou i | and nu | inder and type or sai | Tiple containers) | | |
| | | | | | | | | | |
| | | BTEX Only per E | PA Method | 8021 (3 | - 40 mL \ | Vials w/ HCl preserve) | | | |
| | | | | | | | L. CELER L. R. BAR COM | | |
| | D | isposal of Purg | ed Water: | | <u> </u> | 100 mg/s | | | |
| Colle | cted Samples | Stored on Ice | in Cooler: | MY# S | | <u> 在</u> 技术 <u> </u> | · 一个编一点,是一个 | | |
| | Chain of Cu | stody Record (| Complete: | 105 | ₩ | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| | | Analytical La | aboratory: | Hall Envi | | al Analysis Laboratory, | Albuquerque, NM | | |
| Fauinm | ant Head Dur | _ | | | | erface Level, YSI Water | | | |
| Equipm | en Osea Dai | · | New-Dispo | | | 1 | Quality Meter | | |
| Motos/Cass | monto: | ano | HEW DISHO | Savie Dai | ···· Ka | rastallic fump | | | |
| Notes/Com | ments. | | | | | | | | |
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| | 140/00 | | | | | | | | |
| revised: 00 | 1/10/03 | | *************************************** | | | | | | |

| MONITORING WELL SAMPLING RECORD | | | | | | Animas Environmental Services | | | | |
|---------------------------------|---|------------------|---------------------------------------|---|---------------------|-------------------------------|---|--|--|--|
| Moni | itor Well No: | MW | -4 | , 624 E. Comanche, Farmington NM 87401 | | | | | | |
| | | | | - | | Tel. (505) 564-2281 Fax | | | | |
| | | nmons #2 Pipelir | | | | Project No.: AES 0912 | | | | |
| | | San Juan County | | ico | - | Date: 7-20 | <u>) - [Z</u> | | | |
| | | Monitoring and | | | - * | Arrival Time: 124 | 0 | | | |
| Sampling |) Technician: | N.W. | دنالن | | _ TO | Air Temp: 3 8 | 100 | | | |
| Purge | e / No Purge: | Purg | <u>e</u> _ | | 1.Ų. م/4.1-4 - ° | .C. Elev. (ft): 5424 | 4.38 | | | |
| Well L | Jiameter (in); | 1 | Time: | _ | lotai we | ell Depth (ft): 5.8 | | | | |
| Confirm | | | | | | | | | | |
| Conini | Confirm D.T.W. (ft): 176 Time: 124Z (taken prior to purging well) Final D.T.W. (ft): (taken after sample collection) | | | | | | | | | |
| If NA | ADI Present | ntp | | <i>.</i> | Th | ickness: Ti | ime: | | | |
| 11 117 | | | | | | | mpe | | | |
| | v | Vater Quality | Paramete. | rs - Rec | orded D | Ouring Well Purging | T | | | |
| | Temp Conductivity DO ORP PURGED VOLUME | | | | | | | | | |
| Time | | | | | | | | | | |
| 1246 | 6.40. | 2.127 | 1.12 | 7.08 | -74.8 | 0.25 gal. | | | | |
| 1249 | 5.50. | 1,906 | 0.40 | 7.08 | -93.3 | | | | | |
| 1252 | 5.40- | 1,902 | 0.31 | | -102.7 | <u> </u> | | | | |
| 12.55 | 5.24 | 1.908 | 0.30 | 4 | -108.8 | | | | | |
| 125.8 | 5.31 | 1.909 | 0.37 | 7,03 | -113.7 | 0.25 | | | | |
| 1303 | | | | | | | Samples | | | |
| | | | | | | | Collected | | | |
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| Analyti | ical Parame | ters (include | analysis n | nethod : | and nun | nber and type of sar | mple containers) | | | |
| | | | | *************************************** | | | | | | |
| | F | TFY Only per F | DA Method | 18021/3 | - 40 ml \ | Vials w/ HCl preserve) | | | | |
| | | 71CA Olay po. E | , A Modica | 0021 (0 | - 40 /// . | ridis w Horpicscres | | | | |
| · | D | isposal of Purg | ed Water | | : | | | | | |
| Calle | | , | • | | | 20 4 | 8 F 2 F 3 F 3 F 3 F 3 F 3 F 3 F 3 F 3 F 3 | | | |
| Collec | | s Stored on Ice | • | 1. | | <u> </u> | | | | |
| | Chain of Cu | istody Record (| Complete: | Yes | <u>.</u> | | | | | |
| | | Analytical La | aboratory: | Hall Envi | ronmenta | al Analysis Laboratory, A | Albuquerque, NM | | | |
| Fauinma | Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter | | | | | | | | | |
| Equipm | | | | | | | | | | |
| | | and a | 1 WOTE BTOPOL | Saule Dai | ici iai | installic Pump | | | | |
| Notes/Comi | otes/Comments: | | | | | | | | | |
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| MONI | TORING W | ELL SAMPL I | NG REC | Animas Environmental Services | | | | | |
|---------------|---------------------------------------|--------------------|------------|--|--------------------------------------|--|---|--|--|
| Mon | itor Well No: | MW | -5 | 6 | 624 E. Comanche, Farmington NM 87401 | | | | |
| WOII | itoi weii wo. | 19194 | | Tel. (505) 564-2281 Fax (505) 324-2022 | | | | | |
| Site: | Williams San | ımons #2 Pipelir | ne Snill | | Project No.: AES 0912 | | | | |
| | | San Juan County | | ico | Date: 2-20-(2 | | | | |
| | | Monitoring and | | | - / | Arrival Time: 130 | 9 | | |
| | | N. W | | | - | Air Temp: 40° | F | | |
| Purg | e / No Purge: | Purg | е | _ | T.O. | C. Elev. (ft): 5424 | 4.17 | | |
| | Diameter (in): | | | - - | Total We | II Depth (π):5. | 91 | | |
| 1 | al D.T.W. (ft): | | Time: | | | (taken at initial gauging | | | |
| | | 1.23 | | 1311 | | (taken prior to purging | • | | |
| | al D.T.W. (ft): | D.T.P.: | Time: | ı | Thi | (taken after sample col | | | |
| 11 147 | APL Flesent. | V.1.F | U.1.W | / | | ckness: T | me | | |
| | · · · · · · · · · · · · · · · · · · · | Vater Quality | Paramete | rs - Rec | orded D | uring Well Purging | | | |
| | Temp | Conductivity | DO | | ORP | PURGED VOLUME | | | |
| Time | (deg C) | (µS) (MS) | (mg/L) | рH | (mV) | (see reverse for calc.) | Notes/Observations | | |
| 1315 | 6.47 | 2.044 | 1.07 | 7.16 | -85.3 | 0.25 gal. | | | |
| 1318 | 5. Z 8 | 1,783 | 0.37 | 7.14 | -94.9 | 0.25 | | | |
| 1321 | 5.16 | 1,761 | 0.29 | 7.10 | -102,6 | | | | |
| 1324 | 5,27 | 1.753 | 0.30 | 7.09 | -106.7 | O. 25 | * with a state of the state of | | |
| 1327 | 5,19 | 1.749 | 0.36 | 7.06 | -109.5 | | | | |
| 1332 | | 1. / 1 1 | 0.100 | 1100 | [0]. 7 | | 6. 1. | | |
| 1556 | | | | | | | Sumples Collected | | |
| | | | | | | | Collected | | |
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| | | | | | | | | | |
| Analyt | ical Parame | ters (include : | analysis r | nethod : | and nun | nber and type of sar | nnle containers) | | |
| Allalyt | içai raiaiile | ters (merade a | anaiysis i | nethou a | ara nan | noer and type or sar | inpic contumers/ | | |
| | *** | | | | | | | | |
| | <u> </u> | BTEX Only per E | PA Method | 18021 (3 | - 40 mL \ | /ials w/ HCI preserve) | | | |
| | | | | , . | •; · · · | | 4. | | |
| _ | | isposal of Purg | | · · · · · · · · · · · · · · · · · · · | | ्रह्म के स्थाप के स्थाप इ.स.च्या १८ व्यक्त स्थाप के स्थाप | 47 | | |
| Colle | cted Samples | Stored on Ice | in Cooler: | Yes | | | | | |
| | Chain of Cu | istody Record | Complete: | Yes . | * | | 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| ĺ | | Analytical L | aboratory: | Hall Envi | ronmenta | al Analysis Laboratory, i | Albuquerque, NM | | |
| Equipm | ent Used Dui | ing Sampling: | Keck Wate | r Level or | Keck Int | erface Level, YSI Water | r Quality Meter | | |
| | | and | New Dispo | sable Bai | ler Pa | rastallie Punc | , | | |
| Notes/Com | ments: | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | |
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| L revised: 06 | 7/10/89 | | | | | | | | |

| MONI | ITORING W | ELL SAMPLI | NG REC | ORD | Animas Environmental Services | | | |
|---------------------------------------|-----------------|---------------------------------------|------------------------|-------------------------|-------------------------------|---|--------------------|--|
| Mon | itor Well No: | MW- | 6 | | i • | 24 E. Comanche, Farm Tel. (505) 564-2281 Fax | - | |
| Site | Williams San | nmons #2 Pipelin | e Snill | | <u> </u> | Project No.: AES 0912 | | |
| | | San Juan County | | CO | - | Date: Z - 20 | | |
| | | Monitoring and | | | - | Arrival Time: 133 | | |
| | | Northbring and | | | - ′ | Air Temp: 45 |) <u> </u> | |
| Dura | ia / No Purae: | Purge | 011117 | ···· | τ ο | .C. Elev. (ft): 542 | <u>'</u> 1 91 | |
| Well | Diameter (in): | 1 | | | Total We | ell Depth (ft): 6 | 3 | |
| Initi | al D.T.W. (ft): | | Time: | - | . Ota, ric | (taken at initial gauging | of all wells) | |
| Confir | m D.T.W. (ft): | | | | | (taken prior to purging | | |
| Fin | al D.T.W. (ft): | | Time: | | | (taken after sample coi | | |
| | | | | | | ckness:T | | |
| | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | T | | | rs - Rec | T | PURGED VOLUME | | |
| Time | Temp | Conductivity | DO (matt.) | , LJ | ORP | | Notes/Observations | |
| Time | (deg C) | (μS) (mS) | (mg/L) | рН | (mV) | (see reverse for calc.) | Water in | |
| | | | | | | | well is | |
| | | | | | | , | floren unable | |
| | | | | | | | to dislange | |
| ~ | | | | · | | · · · · · · · · · · · · · · · · · · · | ice in well, | |
| | | | | | | | Samples not | |
| · . | | | | | | | Collected | |
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| | <u> </u> | | | | | | | |
| <u> </u> | | | | | | | | |
| Analyt | ical Parame | ters (include a | ınalysis n | nethod a | and nur | nber and type of sar | nple containers) | |
| | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | E | BTEX Only per E | PA Method | 8021 (3 | - 40 mL \ | /ials w/ HCl preserve) | | |
| | | | | | | | | |
| | D | isposal of Purg | ed Water: | 18 - 1891 - 1841 - S | | | | |
| Colle | cted Samples | Stored on Ice | in Cooler [.] | 70% | | | | |
| 30.10 | - | | • | | :374 | 4 3 22 | | |
| | Chain of Ci | stody Record (Analytical La | • | کے کے Hall Envi | ronment | al Analysis Laboratory, | Albuquerque NM | |
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1202678

February 23, 2012

Tami Ross

Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 793-2072 FAX (505) 324-2022

RE: Sammons #2 Pipeline

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/21/2012 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1202678

Hall Environmental Analysis Laboratory, Inc. Date Reported: 2/23/2012

CLIENT: Animas Environmental Services

Client Sample ID: MW-1

Project: Sammons #2 Pipeline

Collection Date: 2/20/2012 11:34:00 AM

Lab ID: 1202678-001

Matrix: AQUEOUS

Received Date: 2/21/2012 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-----------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 1,0 | μg/L | 1 | 2/21/2012 11:05:26 PM |
| Toluene | ND | 1.0 | μg/L | 1 | 2/21/2012 11:05:26 PM |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 2/21/2012 11:05:26 PM |
| Xylenes, Total | ND | 2.0 | μg/L | 1 | 2/21/2012 11:05:26 PM |
| Surr: 4-Bromofluorobenzene | 108 | 76.5-115 | %REC | 1 | 2/21/2012 11:05:26 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

Lab Order 1202678

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/23/2012

CLIENT: Animas Environmental Services Client Sample 1D: MW-2

 Project:
 Sammons #2 Pipeline
 Collection Date: 2/20/2012 12:05:00 PM

 Lab ID:
 1202678-002
 Matrix: AQUEOUS
 Received Date: 2/21/2012 10:00:00 AM

| Analyses | Result | Result RL Qual Units | | DF | Date Analyzed | | | |
|-----------------------------|--------|----------------------|------|----|-----------------------|--|--|--|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA | | | |
| Benzene | 1.6 | 1.0 | μg/L | 1 | 2/21/2012 11:34:14 PM | | | |
| Toluene | ND | 1.0 | μg/L | 1 | 2/21/2012 11:34:14 PM | | | |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 2/21/2012 11:34:14 PM | | | |
| Xylenes, Total | ND | 2.0 | μg/L | 1 | 2/21/2012 11:34:14 PM | | | |
| Surr: 4-Bromofluorobenzene | 107 | 76.5-115 | %REC | 1 | 2/21/2012 11:34:14 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

Lab Order 1202678

Date Reported: 2/23/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: MW-3

Project: Sammons #2 Pipeline

Collection Date: 2/20/2012 12:35:00 PM

Lab 1D: 1202678-003

Matrix: AQUEOUS Received Date: 2/21/2012 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | | | |
|-----------------------------|--------|----------|----------|----|-----------------------|--|--|--|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA | | | |
| Benzene | ND | 1.0 | μg/L | 1 | 2/22/2012 12:02:58 AM | | | |
| Toluene | ND | 1.0 | μg/L | 1 | 2/22/2012 12:02:58 AM | | | |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 2/22/2012 12:02:58 AM | | | |
| Xylenes, Total | ND | 2.0 | μg/L | 1 | 2/22/2012 12:02:58 AM | | | |
| Surr: 4-Bromofluorobenzene | 107 | 76.5-115 | %REC | 1 | 2/22/2012 12:02:58 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

Page 3 of 7

Lab Order 1202678

Date Reported: 2/23/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Sammons #2 Pipeline

Lab ID: 1202678-004

Project:

Client Sample 1D: MW-4

Collection Date: 2/20/2012 1:03:00 PM Received Date: 2/21/2012 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | | | |
|-----------------------------|--------|----------|----------|----|-----------------------|--|--|--|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA | | | |
| Benzene | ND | 1.0 | μg/L | 1 | 2/22/2012 12:31:40 AM | | | |
| Toluene | ND | 1.0 | μg/L | 1 | 2/22/2012 12:31:40 AM | | | |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 2/22/2012 12:31:40 AM | | | |
| Xylenes, Total | ND | 2.0 | μg/L | 1 | 2/22/2012 12:31:40 AM | | | |
| Surr: 4-Bromofluorobenzene | 108 | 76.5-115 | %REC | 1 | 2/22/2012 12:31:40 AM | | | |

Matrix: AQUEOUS

Qualifiers:

X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 4 of 7

Lab Order 1202678

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/23/2012

CLIENT: Animas Environmental Services Client Sample 1D: MW-5

 Project:
 Sammons #2 Pipeline
 Collection Date: 2/20/2012 1:32:00 AM

 Lab ID:
 1202678-005
 Matrix: AQUEOUS
 Received Date: 2/21/2012 10:00:00 AM

| Analyses | Result | ult RL Qual Units | | DF | Date Analyzed | | | |
|-----------------------------|--------|-------------------|------|----|----------------------|--|--|--|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA | | | |
| Benzene | ND | 1.0 | μg/L | 1 | 2/22/2012 1:00:21 AM | | | |
| Toluene | ND | 1.0 | μg/L | 1 | 2/22/2012 1:00:21 AM | | | |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 2/22/2012 1:00:21 AM | | | |
| Xylenes, Total | ND | 2.0 | μg/L | 1 | 2/22/2012 1:00:21 AM | | | |
| Surr: 4-Bromofluorobenzene | 109 | 76.5-115 | %REC | 1 | 2/22/2012 1:00:21 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

Lab Order 1202678

Date Reported: 2/23/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Trip Blank

Project: Sammons #2 Pipeline

Collection Date: 2/20/2012

Lab ID: 1202678-006

Matrix: TRIP BLANK

Received Date: 2/21/2012 10:00:00 AM

| Analyses | Result | RL Qual Units | | DF | Date Analyzed | | | |
|-----------------------------|--------|---------------|------|----|----------------------|--|--|--|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA | | | |
| Benzene | ND | 1.0 | μg/L | 1 | 2/22/2012 1:29:03 AM | | | |
| Toluene | NĎ | 1.0 | μg/L | 1 | 2/22/2012 1:29:03 AM | | | |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 2/22/2012 1:29:03 AM | | | |
| Xylenes, Total | ND | 2.0 | μg/L | 1 | 2/22/2012 1:29:03 AM | | | |
| Surr: 4-Bromofluorobenzene | 107 | 76.5-115 | %REC | 1 | 2/22/2012 1:29:03 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1202678

23-Feb-12

Client:

Animas Environmental Services

Project:

Sammons #2 Pipeline

Sample ID b 17 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBW Batch ID: R1056 RunNo: 1056 Prep Date: Analysis Date: 2/21/2012 SeqNo: 30314 Units: µg/L PQL **RPDLimit** SPK value SPK Ref Val %REC LowLimit Analyte Result HighLimit %RPD Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 Xylenes, Total 2.0 ND Surr: 4-Bromofluorobenzene 22 20.00 108 76.5 115

| Sample ID 100NG BTEX LC | S SampT | ype: LC | S | Tes | 8021B: Volati | iles | | | | | | | | |
|----------------------------|------------|---------|-----------|--------------|---------------|----------|-------------|------|----------|------|--|--|--|--|
| Client ID: LCSW | Batch | ID: R1 | 056 | F | RunNo: 1056 | | | | | | | | | |
| Prep Date: | Analysis D | ate: 2/ | 21/2012 | SeqNo: 30318 | | | Units: µg/L | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | | |
| Benzene | 19 | 1.0 | 20.00 | 0 | 97.0 | 80 | 120 | | | | | | | |
| Toluene | 20 | 1.0 | 20.00 | 0 | 100 | 80 | 120 | | | | | | | |
| Ethylbenzene | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | | | | | |
| Xylenes, Total | 61 | 2.0 | 60.00 | 0 | 102 | 80 | 120 | | | | | | | |
| Surr: 4-Bromofluorobenzene | 22 | | 20.00 | | 110 | 76.5 | 115 | | | | | | | |

| Sample ID 1202688-001A MS | SampT | 3 | Tes | 8021B: Volat | iles | | | | | |
|----------------------------|------------|---------------|-----------|--------------|----------|----------|-------------|------|----------|------|
| Client ID: BatchQC | Batch | ID: R1 | 056 | F | RunNo: 1 | 056 | | | | |
| Prep Date: | Analysis D | ate: 2/ | 21/2012 | 8 | SeqNo: 3 | 0319 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1,200 | 50 | 1,000 | 185.1 | 101 | 70.1 | 118 | | | |
| Toluene | 1,600 | 50 | 1,000 | 535.0 | 105 | 72.3 | 117 | | | |
| Ethylbenzene | 1,200 | 50 | 1,000 | 160.0 | 106 | 73.5 | 117 | | | |
| Xylenes, Total | 4,200 | 100 | 3,000 | 1,063 | 106 | 73.1 | 119 | | | |
| Surr: 4-Bromofluorabenzene | 1,200 | | 1,000 | | 119 | 76.5 | 115 | | | S |

| Sample ID 1202688-001A N | ∥SD SampT | SampType: MSD TestCode: EPA Method 8021B: Volatiles | | | | | | | | | | |
|----------------------------|------------------|---|-----------|-------------|--------------|----------|-----------|------|----------|------|--|--|
| Client ID: BatchQC | Batch | ID: R1 | 056 | F | RunNo: 1 | 056 | | | | | | |
| Prep Date: | Analysis D | Analysis Date: 2/21/2012 | | | SeqNo: 30320 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Benzene | 1,100 | 50 | 1,000 | 185.1 | 96.2 | 70.1 | 118 | 4.20 | 16.4 | | | |
| Toluene | 1,500 | 50 | 1,000 | 535.0 | 101 | 72.3 | 117 | 2.69 | 13.9 | | | |
| Ethylbenzene | 1,200 | 50 | 1,000 | 160.0 | 101 | 73.5 | 117 | 4.16 | 13.5 | | | |
| Xylenes, Total | 4,100 | 100 | 3,000 | 1,063 | 102 | 73.1 | 119 | 3.10 | 12.9 | | | |
| Surr: 4-Bromofluorobenzene | 1,200 | | 1,000 | | 118 | 76.5 | 115 | 0 | 0 | s | | |

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 7 of 7



Hall Environmental Analysis Laboratory .4901 Hawkins NE Albuquerque, NM 87105

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

Sample Log-In Check List

Client Name: Anlmas Environmental Work Order Number: 1202678 Received by/date: Logged By: 2/21/2012 10:00:00 AM Completed By: Michelle Garcia 2/21/2012 10:26:52 AM HU2/21/12 Reviewed By: Chain of Custody Yes 🗌 No 🔲 Not Present 1. Were seals intact? Yes 🗹 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗍 Yes 🗹 No 🗌 4. Coolers are present? (see 19. for cooler specific information) NA 🗍 Yes 🗹 No 🗌 5. Was an attempt made to cool the samples? NA 🗆 Yes 🗹 No 🗌 6. Were all samples received at a temperature of >0° C to 6.0°C Yes 🔽 No 🗌 7 Sample(s) in proper container(s)? Yes 🗹 No 🗌 8. Sufficient sample volume for indicated test(s)? Yes 🗹 No 🗌 9. Are samples (except VOA and ONG) properly preserved? Yes 🗌 No 🗹 NA 🗆 10. Was preservative added to bottles? Yes 🗌 No 🗍 No VOA Vials 🗹 11. VOA vials have zero headspace? Yes 🗌 No 🗹 12. Were any sample containers received broken? # of preserved Yes 🗹 No 🗀 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes 🔽 No 🔲 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? Yes 🗹 No 🗌 15. Is it clear what analyses were requested? Yes 🗹 No 🗌 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes 🗌 No 🔲 NA 🛂 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: **Client Instructions:** 18. Additional remarks: 19. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date Signed By

| Chamilor-Custouy Necolu | | | | | | | | HALL ENVIRONMENTAL | | | | | | | | | | | |
|---|-----------------------|---|---|---|---------------------|--|------------------|--------------------|--|---------|---------------|---------|--|-----------------|----------|------------|-----------------|----------------|--------------|
| Client: | Animas | Environ | mental Services | XStandard Project Name | | ANALYSIS LABORATORY www.hallenvironmental.com | | | | | | | | | | , | | | |
| Mailing | Address | 624 E Co | ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, , | 1 | 0 |) Bissilies | | | 40044 | | | | | | | | | | |
| | | | | Sammons #2 Pipeline Project #: | | | | | 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | | | | |
| | Farmington , NM 87401 | | | ᅴ ` | | | | | Tel. 505-345-3975 Fax 505-345-4107 Analysis Request | | | | | | | | | | |
| Phone #: 505-564-2281 email or Fax#: 505-324-2022 | | Project Mana | AES 091204 | | | | | | | All | allySiS | Kego | esi | | | | T | | |
| QA/QC Package: X Standard | | | ⊣ ′ | Tami Ross | | | | | | | | | | | | | | | |
| Accreditation: NELAP Other EDD (Type) | | Sampler: Ontoe in the Samble trem | ジル。 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | | | (021) | | | | | | | | | | | | | |
| Date | Time | Matrix | Sample Request ID | | | | | BTEX Only (8021) | | | | | | | | | | | |
| 20-12 | 1134 | water | MW-1 | 3 - 40 mL glass | HCI | _ (| | X | | | | | | | | 1. | | | T |
| 7 | 1205 | water | MW-2 | 3 - 40 mL glass | нсі | - 5 | } | X | | | | | | | | | | | Ť |
| | 1235 | water | MW-3 | 3 - 40 mL glass | HCI | _ 2 | | X | _ | | | | <u> </u> | | | 1 | \Box | | T |
|) | 1303 | water | MW-4 | 3 - 40 mL glass | HCI . | - 4 | - | X | | \Box | \neg | \neg | | | _ | | | 1 | 十 |
| 7 | 1332 | water | MW-5 | 3 - 40 mL glass | HCI | - 5 | _ | X | | | | | | \Box | | | | | Ť |
| | | water | MW-6 | 3 - 40 mL glass | HCI | NU | | X | | | | | | | | | | | T |
| | | water | Trip Blank | 2-40 m2 glass | 1761 | ما - | | X | | | 1 | | | | | , | | $\overline{+}$ | $rac{1}{2}$ |
| | | | | | | | | | | | | | | | | | | <u> </u> | † |
| | | <u> </u> | | | | <u> </u> | | | _ | + | _ | | | $\vdash \vdash$ | _ | 1. | $\vdash \vdash$ | | + |
| | | <u></u> | | | | <u> </u> | _ | \vdash | _ | + | | | | $\vdash \vdash$ | | | \vdash | | + |
| Date: 2/20/12 Date: 2/ 1 | Time: | Relinquish Relinquish | Why | Received by: Date Time Australia 1/20/12 17/07 Received by: Date Time | | | Rem | arks: | 1 1 | 1., | <u></u> В1 | TEX O | ∟ nly | | 1 | | | _ | |
| 20/12 | 1721 | 1 Uhr | strubbeles. | Much 11 | (price | _2 21/15 | 1000 | | .:::L. A | | ** | | 11 6 - 1 - 1 | | | 1 | | | |
| | II necessary | surples sub | mitted to Hall Environmental may be suf | ocontracted to other a | ccrecyteo laborator | es. mis serves | as notice of thi | dizzoq z | uity. Any | sub-con | tracted | data wi | ii be cleai | ly notate | ed on th | e analytic | :ai repo | rt. | |