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ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS HOLDINGS LLC (General Partner)

August 13, 2014

Submitted via email w/delivery confirmation: Jim Griswold@state.nm.us

Mr. Jim Griswold, Environmental Bureau Chief New Mexico Energy, Minerals & Natural Resources Department - Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Attn: Glenn Von Gonten

Re: 4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report Enterprise Field Services, LLC Trunk 6C (10/29/13 Release) (Formerly Lateral 6C) NMOCD Order Number: 3RP-438-0 NE¼ SW¼, Section 26, T28N, R11W San Juan County, New Mexico

Dear Mr. Griswold:

Enterprise Field Services, LLC (Enterprise) is submitting the attached report entitled: 4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report for the Trunk 6C (10/29/13 Release), dated July 23, 2014. This report documents the results of the sixth consecutive quarterly groundwater monitoring and sampling event conducted at the above-referenced release site during September 2013, and the fourth quarter sampling event for 2013.

Additionally, this report details aquifer testing conducted in December 2013, as well as the release assessment conducted in response to a second release discovered at the site on October 29, 2013. Four (4) additional monitor wells (MW-10 through MW-13), were installed during this assessment. Note that the initial release occurred at this location on September 21, 2011. The initial release site was referred to as Lateral 6C. Enterprise now references the site as: Trunk 6C (10/29/13 Release). GPS coordinates for the site are: 36.631970, -107.974080.

During this quarterly event, a total of eleven (11) monitor wells (MW-3 through MW-13) were sampled for dissolved-phase constituents. Two (2) monitor wells (MW-1 and MW-2) contained measurable accumulations of non-aqueous phase liquid (NAPL), and were not sampled. Due to the presence of benzene concentrations in downgradient monitor well MW-10, additional downgradient monitor wells will be installed to complete delineation of the dissolved-phase groundwater plume.

Enterprise is evaluating remedial alternatives for the site, including air sparing and soil vapor extraction (SVE). A pilot test may be conducted to aid in the design and implementation of a remediation system at the location.

If you have any questions concerning the attached report, please do not hesitate to contact me at (713) 381-2286, or via email at: <u>drsmith@eprod.com</u>.

Sincerely,

David R. Smith, P.G.

Sr. Environmental Scientist

NOSEN

Gregory E. Miller, P.G. Supervisor, Remediation

/dep

Attachment

ec: Glenn Von Gonten, New Mexico Oil Conservation Division, Santa Fe, NM Mark Kelly, Bureau of Land Management, Farmington, NM Shari Ketcham, Bureau of Land Management, Farmington, NM Brandon Powell, New Mexico Oil Conservation Division, Aztec, NM Jonathan Kelly, New Mexico Oil Conservation Division, Aztec, NM Elizabeth McNally, Animas Environmental Services, Farmington, NM



July 23, 2014

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RE: 4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report Enterprise Field Services, LLC Trunk 6C September 2011 Pipeline Release (Former Lateral 6C) NMOCD Order Number: 3RP-438-0 NE¼ SW¼, Section 26, T28N, R11W San Juan County, New Mexico

Dear Mr. Smith:

Animas Environmental Services, LLC (AES), on behalf of Enterprise Field Services, LLC (Enterprise), has prepared this 4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report for the Trunk 6C September 2011 Pipeline Release in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations. This report documents the sixth consecutive quarterly monitoring and sampling event for the subject release location and the fourth quarter sampling event for 2013. Additionally, this report details aquifer testing conducted by AES in December 2013 as well as the release assessment conducted in response to a second release discovered at the site on October 29, 2013. Note that both releases will be investigated and reported on together.

1.0 Site Information

1.1 Site Location and NMOCD Ranking

The release area is located on Federal land under jurisdiction of the Bureau of Land Management (BLM) within the NE¼ SW¼, Section 26, T28N, R11W, San Juan County, New Mexico. Latitude and longitude of the release were recorded as N36.63202 and W107.97400, respectively. A topographic site location map is included as Figure 1, and an aerial map showing the release locations (September 21, 2011 and October 29, 2013) is included as Figure 2. In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the initial assessment. The release was given a ranking score of 40 based on the following factors:

- Depth to Groundwater: Known depth to groundwater is less than 20 feet below ground surface (bgs). (20 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: The release location is within the floodplain of Kutz wash, which is less than 200 feet to the northeast. Kutz Wash flows north and ultimately discharges into the San Juan River. (20 points)

The ranking score 40 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

1.2 Initial Release Assessment and Investigation

A pipeline release was discovered on September 22, 2011, by Enterprise personnel during routine operations activities. The release was immediately reported to BLM, and a Form C-141 was submitted to NMOCD on September 29, 2011. The estimated quantity of the initial release of natural gas and condensate was 7 barrels. A second release of an unknown volume of natural gas and liquids was discovered at the same location on October 29, 2013, and is discussed in further detail in Section 4.0.

1.2.1 Initial Release Assessment

AES personnel met with Enterprise representatives at the release location on September 22, 2011. Following the pipeline repair on September 23, 2011, AES collected one soil sample from the base of the small repair excavation at 6 feet bgs. The sample was field screened for volatile organic compounds (VOCs) with a photo-ionization detector (PID) organic vapor meter (OVM). Based on the field screening reading of 3,974 parts per million (ppm) and the anticipated shallow depth of groundwater, AES and Enterprise determined that a limited investigation of the release extent would be appropriate prior to implementing further contaminant mitigation measures.

1.2.2 Release Assessment - October 2011

On October 11, 2011, AES completed four test holes excavated around the original release location and at distances of up to 100 feet from the release point. AES recorded the encountered soil materials, collected field screening samples and soil samples for laboratory analysis from each test hole, and collected groundwater samples from two of the test holes. Soil concentrations for total BTEX and TPH (GRO) in sample TP-1 at 10 feet

exceeded the applicable NMOCD action levels with 169 mg/kg total BTEX and 1,429 mg/kg TPH. Benzene, total BTEX, TPH-GRO, and TPH (DRO) concentrations in sample TP-2 at 15 feet also exceeded the applicable NMOCD action levels with 45 mg/kg benzene, 513 mg/kg total BTEX, and 5,170 mg/kg TPH (GRO/DRO). Although some elevated OVM field screening values were recorded, BTEX and TPH concentrations in the remaining soil samples were either below laboratory detection limits or below applicable NMOCD action levels.

Groundwater samples were collected for laboratory analysis from TP-2 and TP-4. During sample collection, a petroleum sheen was observed in TP-2. Dissolved phase benzene, toluene, and xylene concentrations were reported above the New Mexico Water Quality Control Commission (WQCC) standards in TP-2 with 9,800 µg/L benzene, 15,000 µg/L toluene, and 6,700 µg/L xylene. Detailed laboratory results were summarized in the AES letter report entitled *Soil and Groundwater Sampling Results* and dated October 28, 2011. Sample locations and results are included on Figure 3.

Following receipt of laboratory analytical results on October 24, 2011, Enterprise notified NMOCD of the confirmed groundwater impact by submitting a Form C-141. Based on field screening and laboratory analytical results, AES recommended that Enterprise conduct further delineation of the soil and groundwater contamination in order to determine the most effective mitigation of the release.

1.2.3 Site Investigation - November 2011

On November 30, 2011, AES completed an additional site investigation, which included the installation of eight soil borings and the collection of soil and groundwater samples. Soil samples showed that contaminant concentrations exceeded NMOCD action levels in borings SB-2, SB-7, and SB-8. The highest benzene and total BTEX concentrations were reported in SB-2, with 31 mg/kg benzene and 580 mg/kg total BTEX. The highest TPH concentration was also reported in SB-2 with 7,500 mg/kg.

Dissolved phase analytical results indicated groundwater was impacted above the WQCC standard in SB-2W (benzene, toluene, and xylene), SB-3W (benzene), and SB-7W (benzene and toluene). The highest concentrations for benzene, toluene, and xylenes were reported in SB-2W with 2,800 μ g/L benzene, 5,700 μ g/L toluene, and 4,000 μ g/L xylenes. Sample locations and results are included on Figure 3.

1.2.4 Groundwater Investigation – September 2012

On August 20 through September 7, 2012, AES completed a groundwater investigation in order to further delineate the extent of the dissolved phase hydrocarbon contaminants associated with the Lateral 6C pipeline release. During the site investigation, AES personnel installed nine soil borings which were each advanced to depths of 25 feet bgs and completed as monitor wells MW-1 through MW-9.

The local site lithology consists of alluvium and fluvial material from the adjacent Kutz Wash overlaying sandstone bedrock. Soil observed during the investigation was brown to tan, fine to medium grained, silty to clayey sand, with some gravel at depths greater than 20 feet bgs. Moisture level increased with depth from dry to moist in the upper 10 feet to moist to wet down to contact with bedrock. Bedrock material was grey, fine grained, firm to moderately hard, wet sandstone.

During the investigation, soil laboratory analytical results showed that petroleum hydrocarbon concentrations were not above NMOCD action levels in any of the soil borings. Laboratory analytical results showed groundwater contaminant concentrations above the WQCC standard of 10 µg/L for benzene in MW-1 (2,200 µg/L), MW-2 (270 µg/L), MW-4 (18 µg/L), and MW-8 (41 µg/L). Additionally, dissolved phase toluene above the WQCC standard of 750 µg/L was reported in MW-2 with 1,100 µg/L, and xylene above the WQCC standard of 620 µg/L was reported in MW-1 (650 µg/L), MW-2 (1,800 µg/L), and MW-6 (2,200 µg/L). Sample locations and results are included on Figure 4.

1.2.5 Groundwater Monitoring and Sampling – December 2012

Site monitor wells were monitored and sampled by AES on December 20, 2012. Laboratory results showed dissolved phase benzene concentrations above the WQCC standard of 10 μ g/L in two wells, including MW-1 (1,100 μ g/L) and MW-2 (26 μ g/L). Also, dissolved phase xylene concentrations were above the WQCC standard of 620 μ g/L in MW-6 with 1,200 μ g/L. Details of the groundwater sampling event were presented in the *Quarterly Groundwater Sampling Report* dated February 13, 2013.

1.2.6 Groundwater Monitoring and Sampling – March 2013

Site monitor wells were monitored and sampled by AES on March 20, 2013. Note that 0.42 feet of non-aqueous phase liquid (NAPL) or "free product" was observed for the first time in MW-1 during the March 2013 sampling event. Laboratory results reported dissolved phase benzene concentrations above the WQCC standard of 10 μ g/L in two wells, including MW-4 (290 μ g/L) and MW-8 (41 μ g/L). Dissolved phase xylene concentrations were above the WQCC standard of 620 μ g /L in MW-6 with 800 μ g/L. Details of the groundwater sampling event were presented in the *Quarterly Groundwater Sampling Report* dated May 13, 2013.

1.2.7 Groundwater Monitoring and Sampling – June 2013

AES completed site monitoring and sampling on June 19, 2013. NAPL was observed for the second consecutive quarter in MW-1 (0.26 feet) and for the first time in MW-2 (0.44 feet). Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 μ g/L in three wells, including MW-3 (780 μ g/L), MW-4 (600 μ g/L), and MW-8 (21 μ g/L). Dissolved phase xylene concentrations were above the WQCC standard of 620 μ g /L in MW-6 with 1,100 μ g/L. Details of the groundwater sampling

event were presented in the *Quarterly Groundwater Sampling Report* dated August 26, 2013.

1.2.8 Groundwater Monitoring and Sampling – September 2013

AES completed site monitoring and sampling on September 17 and 18, 2013. NAPL was observed for the third consecutive quarter in MW-1 (0.48 feet) and for the second quarter in MW-2 (0.14 feet). Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 μ g/L in two wells, including MW-3 (150 μ g/L) and MW-4 (830 μ g/L). Dissolved phase xylene concentrations were above the WQCC standard of 620 μ g/L in MW-6 with 1,200 μ g/L.

1.2.9 Monitor Well Installation - October 2013

Four additional monitor wells (MW-10 through MW-13) were installed on October 16, 2013, in order to further delineate the lateral extent of groundwater contaminant impact. Soil laboratory analytical results reported benzene, total BTEX, and TPH concentrations below the laboratory detection limits in MW-11 through MW-13. The soil benzene concentration in MW-10 at 13.5 to 14 feet was below the NMOCD action levels of 10 mg/kg; however, total BTEX and TPH concentrations exceeded the NMOCD action levels of 50 mg/kg total BTEX and 100 mg/kg TPH (as GRO/DRO) with 52 mg/kg total BTEX and 541 mg/kg TPH. Details of the groundwater sampling and monitor well installation event were presented in the *Quarterly Groundwater Monitoring and Well Installation Report* dated December 10, 2013. Sample locations and results are included on Figure 4.

2.0 Groundwater Monitoring and Sampling – December 2013

On December 16, 2013, groundwater monitoring and sampling were conducted by AES in MW-1 through MW-14, and samples were collected from MW-3 through MW-13 for laboratory analyses. Work was completed in accordance with the workplan prepared by AES and dated August 3, 2012, 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. During this sampling event, NAPL was observed for the fourth consecutive quarter in MW-1 (0.16 feet) and for the third consecutive quarter in MW-2 (0.06 feet). Groundwater elevations increased by an average of 0.30 feet across the site,

and depths to groundwater were observed to range from 14.81 feet below top of casing (TOC) in MW-8 to 19.88 feet below TOC in MW-13. The groundwater gradient was calculated to be approximately 0.006 foot/foot to the northwest. Groundwater gradient contours are included on Figure 5.

Following depth to water measurement, each well was purged with a peristaltic pump or new 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 13.21°C in MW-11 to 17.75°C in MW-4, and conductivity ranged from 6.731 mS in MW-13 to 10.140 mS in MW-10. DO concentrations were between 0.31 mg/L in MW-10 and 2.46 in MW-8, and pH ranged from 7.16 in MW-4 to 7.65 in MW-11. Depth to groundwater measurements and water quality data are summarized in Table 1. Water Sample Collection forms are presented in Appendix A.

2.2 Groundwater Laboratory Analyses

Groundwater samples were collected using low flow purging techniques with a peristaltic pump or new disposable bailer from a total of 11 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

Groundwater laboratory analytical results showed that dissolved phase benzene concentrations were above the WQCC standard of 10 μ g /L in MW-3 (660 μ g/L), MW-4 (300 μ g/L), MW-8 (18 μ g/L) and MW-10 (950 μ g/L). Dissolved phase xylene concentrations were above the WQCC standard of 620 μ g /L in MW-6 with 990 μ g/L. Dissolved phase toluene and ethylbenzene concentrations were below the WQCC standard of 750 μ g/L in all wells sampled. Tabulated groundwater analytical results are presented in Table 2 and on Figure 6, and dissolved phase benzene and xylene contours are presented on Figures 7 and 8, respectively. Groundwater laboratory analytical reports are presented in Appendix B.

3.0 Aquifer Testing – December 2013

In order to assist in develop a remedial system design, short term steady-state pumping tests were conducted by AES in December 2013 in four wells (MW-6 through MW-9) to estimate localized hydraulic conductivity (K) using drawdown and recovery analysis.

3.1 Pumping Test Setup

Pumping tests were performed with a Proactive Tornado[®] pump. Note that the pump was not outfitted with a check valve, thus to provide reliable recovery data the discharge tube was plugged at the time the pump was turned off. The drawdown and recovery data were monitored and recorded with an In-Situ Level Troll 700 transducer. The transducer is equipped with an internal data logger capable of collecting four samples per second. The transducer was initially set to measure 0.25 second intervals and increasing to 60 seconds until the well recovered to the pre-test water level elevation. Drawdown in the wells was observed to reach a quasi-steady state indicating equal recharge to discharge, and at that time the pumping was terminated and the well was allowed to recover. The flow rate was measured a minimum of five times with the average rate used in the analysis.

3.2 Pumping Test Analysis

The results of the pumping test were analyzed using aquifer testing software AQTESOLV¹. Parameters for model input included:

- Test type (pumping from single well);
- Well radius (0.083 feet);
- Estimated saturated thickness (well dependent, Table 3);
- Partially penetrating well;
- Pumping rate (test dependent); and
- Displacement observation (test dependent).

The software output includes transmissivity (T) and storativity (S). However, the storage values were not utilized, since there were no observation wells used in the tests. Using the transmissivity (T) and estimated saturated thickness (b), approximate localized hydraulic conductivity (K) can be determined with the following equation:

$$K = \frac{T}{b}$$

(1)

For each well tested, the results were pre-plotted to determine which data collected was appropriate for analysis. These short term pumping tests resulted in drawdown to quasi-steady state, a period of equal pumping and recharge, and the recovery period. The

¹ AQTESOLV[®] for Windows[®], Version 4.5 – PROFESSIONAL (Product Version 4.500.002). AQTESOLV is a registered trademark of Arcadis Geraghty & Miller, Inc. Windows[®] is a registered trademark of Microsoft Corporation.

drawdown and recovery data were used to estimate localized K. In general, recovery data is used to verify the accuracy of the pumping data (Driscoll, 1986). However, in many cases the recovery data is more reliable due to the absence of the effects of pumping and well interferences.

In AQTESOLV, the Theis (1935) method was used for pumping analysis. Theis (1935) solution is applicable to an unconfined aquifer by drawdown correction with the following equation (Kruseman and de Ridder, 1990):

$$s' = s - s^2/2b$$

(2)

Where,

s' = corrected displacement (ft),

s = observed displacement (ft), and

b = saturated thickness

In AQTESOLV, the three methods used for recovery analysis include: Neuman (1974), Moench (1997), and Tartakovsky-Neuman (2007). Neuman (1974) derived a solution for unsteady flow to a fully penetrating well in a homogeneous, anisotropic unconfined aquifer. Moench (1997) also derived a solution for unsteady flow to a fully penetrating, finite-diameter well with wellbore storage and wellbore skin in a homogeneous, anisotropic unconfined aquifer (Moench, 1997). Tartakovsky-Neuman (2007) derived a solution for unsteady-state flow to a fully penetrating well in a homogeneous, anisotropic unconfined aquifer, which assumes a line source for the pumped well and therefore neglects wellbore storage.

3.3 Pumping Test Results

The pumping tests were analyzed for localized K during drawdown and recovery. Drawdown in the wells reached a quasi-steady state of discharge and recharge, and drawdown data was analyzed with the Theis (1935) method in AQTESOLV. The average hydraulic conductivity estimate for the four wells tested using drawdown analysis was 5.27×10^{-3} cm/sec. The drawdown results are summarized in Appendix C.

The recovery data was analyzed using the three methods previously mentioned by both residual drawdown and Agarwal Equivalent Time. In general, the curve matching for the residual drawdown was well matched at late time, while the Agarwal Equivalent Time was overall a better match (i.e. early, mid, and late). The average hydraulic conductivity estimate for the four wells tested using recovery analysis was 8.81 x 10^{-3} cm/sec. The detailed recovery results and the graphs for the AQTESOLV data analyses are included in Appendix C.

In general, the results of the drawdown and recovery are reasonably matched within the same order of magnitude. The average K value of the recovery analysis is about 1.5 times

greater than the average K value from drawdown (Theis Method). One possible reason for the difference between drawdown and recovery is that the recovery curves were monitored with 60 second intervals. Generally, the first 10 minutes of well recovery would be monitored in short interval such as 0.25 to 0.50 seconds to capture early recovery and then increase with time until the well is fully recovered (Driscoll, 1986).

When comparing the range of K estimates from this study with the site soil boring logs and documented ranges of unconsolidated material, each fall within the expected range for the relevant material. The range of drawdown (2.23E-03 to 8.01E-03 cm/sec) and recovery (6.88E-03 to 1.19E-02 cm/sec) is consistent with the range for unconsolidated coarse sand (9.0E-05 to 6.0E-01 cm/sec) to fine sand (2.0E-05 to 2.0E-02 cm/sec) (Domenico and Schwartz, 1990).

Based on the hydraulic gradient (0.006 feet/feet) at Lateral 6C, the average linear velocity at the site can be determined with the following equation (Fetter, 2001):

$$v_x = -\frac{Kdk}{n_e dk}$$

(4)

Where, v_x=average linear velocity K=hydraulic conductivity n_e=effective porosity dh/dl=hydraulic gradient

The average linear velocity estimates for a range of porosity from sand and gravel mixed (20 to 35 percent) to well sorted sand and gravel (25 to 50 percent) (based on Meinzer (1923); Davis (1969); Cohen (1965); and MacCary and Lambert (1962) cited in Fetter (2001, p. 75)) are summarized in Table C-4 (Appendix C). The low end of the estimated range of average linear velocity is consistent with the distance the plume has migrated since the 2011 release. This estimate is based on the premise that the center of mass of solute is moving at the same rate as the average linear velocity (i.e. the highest concentration of 1,000 μ g/L) and the dispersion of solutes is expected. Appendix C includes all data, graphs, and results for the aquifer testing.

4.0 October 2013 Pipeline Release Assessment

A release of an unknown volume of natural gas and pipeline liquids was discovered on October 28, 2013, in approximately the same location as the September 2011 release location. The pipeline was removed from service, and an initial excavation for pipeline repair access was completed.

On November 1, 2013, Heather Woods of AES completed the initial assessment field work. The assessment included the collection of six soil samples (C-1 through C-6) from the walls and base of the initial excavation and seven soil samples from one soil boring (SB-1) advanced into the base of the initial excavation immediately adjacent to the release location. The area of the initial excavation measured approximately 54 feet by 15 feet by 6 feet in depth. Sample locations from the initial assessment are included on Figure 9.

Following pipeline repair activities, AES returned to the location on December 17, 2013, to provide excavation guidance and collect confirmation soil samples from the final excavation. Field screening activities included the collection of 20 discrete soil samples (S-1 through S-20) from the walls and base of the excavation. The excavation was limited to the northwest and northeast by additional pipeline crossings. The area of the final excavation measured approximately 1,600 square feet by 15 feet in depth. The pipeline segment had been filled with inert nitrogen gas and removed from service. Contaminated soils were transported to Envirotech Landfarm, and the excavation was backfilled with clean, imported material. Sample locations and final excavation extents are shown on Figure 10. The Bills of Lading are included in Appendix D, and a photograph log is included in Appendix E.

4.1 Field Screening

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

4.2 Laboratory Analyses

Samples collected for laboratory analysis were placed into new, clean, laboratorysupplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- BTEX per USEPA Method 8021B; and
- TPH (GRO/DRO) per USEPA Method 8015D.

4.3 Field Screening and Laboratory Analytical Results

On November 1, 2013, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 243 ppm in C-4 up to 1,420 ppm in C-1. On December 17, 2013, final excavation field screening results for VOCs via OVM ranged from 10.5 ppm in

S-14 up to 4,230 ppm in S-3. Field screening results are summarized in Table 3 and presented on Figures 9 and 10.

Laboratory analytical results from the final excavation showed that benzene concentrations ranged from below laboratory detection limits for all the samples, except S-2 (66 mg/kg), S-3 (21 mg/kg), and S-10 (0.63mg/kg). Total BTEX concentrations ranged from below laboratory detection limits in S-11 and S-17 up to 1,330 mg/kg in S-2. TPH concentrations ranged from below laboratory detection limits in S-11, S-17, and S-18, up to 15,320 mg/kg in S-2. Soil laboratory analytical results are included in Table 4 and on Figure 10. The laboratory analytical reports are included in Appendix F.

5.0 Conclusions and Recommendations

A total of 13 monitor wells (MW-1 through MW-13) were monitored and sampled at the Trunk 6C (Formerly Lateral 6C) September 2011 pipeline release location by AES on December 16, 2013. Note that during this sampling event, NAPL was observed for the fourth consecutive quarter in MW-1 (0.16 feet) and for the third consecutive quarter in MW-2 (0.06 feet).

Groundwater continues to be impacted above the WQCC standard for benzene and xylenes. Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard of 10 μ g/L in four wells, including MW-3 (660 μ g/L), MW-4 (300 μ g/L), MW-8 (18 μ g/L), and MW-10 (950 μ g/L). Also, dissolved phase xylene concentrations were above the WQCC standard of 620 μ g /L in MW-6 with 990 μ g/L. Dissolved phase toluene and ethylbenzene concentrations were below WQCC standards in all sampled monitor wells. Low benzene concentrations and high xylene concentrations in MW-6 may be indicative of weathering or partially degraded petroleum hydrocarbons.

Short term steady-state pumping tests were conducted in December 2013 in four wells (MW-6 through MW-9) to estimate localized hydraulic conductivity using drawdown and recovery analysis. The results of the pumping tests were analyzed using aquifer testing software AQTESOLV. The Theis method was used for drawdown analysis and the Neuman, Moench, and Tartakovsky-Neuman methods were used for recovery analysis for both residual drawdown and Agarwal Equivalent Time. The average hydraulic conductivity estimate using drawdown analysis was 5.27E-03 cm/sec and using recovery analysis was 8.81E-03 cm/sec. The low end of the estimated range of average linear velocity is consistent with the distance the plume has migrated since the September 2011 release.

Additionally, on November 1, 2013, AES conducted an initial assessment of petroleum contaminated soils associated with a secondary release natural gas and pipeline liquids at

the location (October 2013 Release). Initial assessment field screening results were above the NMOCD action level of 100 ppm VOCs for all the samples collected, with the highest concentration recorded in C-1 with 1,420 ppm.

On December 17, 2013, final clearance of the excavation area (October 2013 Release) was completed. Field screening results of the excavation extents showed that VOC concentrations were above the NMOCD action level of 100 ppm in 14 of the 20 samples collected from the final walls and base of the excavation, with the highest concentration reported in S-3 with 4,230 ppm VOCs. Laboratory analytical results reported benzene concentrations above the NMOCD action level of 10 mg/kg in S-2 (66 mg/kg) and S-3 (21 mg/kg). Total BTEX concentrations above the NMOCD action level of 50 mg/kg were reported in four locations, with the highest concentrations reported in S-2 (1,330 mg/kg). TPH (GRO/DRO) concentrations were also reported above the NMOCD action level of 100 mg/kg in S-9 up to 15,320 mg/kg in S-2.

Based on the final field screening and laboratory analytical results of samples collected from the location, groundwater and soils continue to be impacted above applicable NMOCD action levels and WQCC standards. AES recommends continued monitoring and sampling of site monitor wells on a semi-annual basis along with implementation a soil vapor extraction (SVE) pilot test to aid in the design and implementation of a mechanical remediation system at the location. A workplan detailing the SVE pilot study will be submitted under separate cover. Further, if benzene concentrations in MW10 remain elevated, another downgradient well should be installed in order to complete definition of the downgradient extent of dissolved phase impacts to groundwater.

A quarterly groundwater sampling event was conducted in March 2014, and the next sampling event is tentatively scheduled for September 2014. Results for both sampling events will be submitted within one report.

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

Sincerely,

Brent wereth

Brent Everett Senior Hydrogeologist

Elipsbith V Mindly

Elizabeth McNally, P.E.

Attachments:

Tables

- Table 1. Summary of Groundwater Measurements and Water Quality Data
- Table 2.Summary of Groundwater Laboratory Analytical Results
- Table 3. Summary of Soil Field Screening Results
- Table 4.Summary of Laboratory Analytical Results

Figures

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Soil and Groundwater Sample Locations and Results, October 2011 and November 2011
- Figure 4. Monitor Well Locations and Results, August 2012 and October 2013
- Figure 5. Groundwater Elevation Contours, December 2013
- Figure 6. Groundwater Contaminant Concentrations, December 2013
- Figure 7. Dissolved Benzene Concentration Contours, December 2013
- Figure 8. Dissolved Xylene Concentration Contours, December 2013
- Figure 9. Initial Assessment Sample Locations and Results, December 2013
- Figure 10. Final Assessment Sample Locations and Results, December 2013

Appendices

- Appendix A. Water Sample Collection Forms
 Appendix B. Groundwater Analytical Report (Hall 1312973)
 Appendix C. Aquifer Testing Data, Graphs and Results
 Appendix D. Envirotech BOLs (45430, 45431, 45440 through 45443, 45465 through 45468, 45472, 45473, and 45483 through 45486)
 Appendix E. Photograph Log
- Appendix F. Soil Analytical Report (Hall 1312A07)

C:\Users\emcnally\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2014 Projects\Enterprise\Lateral 6C\Reports and Workplans\Enterprise Lateral 6C 4th Qtr 2013 GW Sampling Report 071414 EM.docx Tables

			Depth to NAPL	Depth to Water	NAPL		Corrected			Dissolved	
Well ID	Date	Surveyed TOC* (ft)	(ft below TOC)	(ft below TOC)	Thickness (ft)	GW Elev. (ft amsl)	GW Elev. (ft)	pН	Conductivity (mS)	Oxygen (mg/L)	Тетр. (ºС)
MW-1	07-Sep-12	5579.56	,	15.78		5563.78		7.02	5.616	1.72	17.31
MW-1	20-Dec-12	5579.56		15.69		5563.87		7.38	4.567	1.41	16.71
MW-1	20-Mar-13	5579.56	15.31	15.73	0.42	5563.83	5564.14	NA	NA	NA	NA
MW-1	19-Jun-13	5579.56	15.49	15.75	0.26	5563.81	5564.00	NA	NA	NA	NA
MW-1	17-Sep-13	5579.56	15.79	16.27	0.48	5563.29	5563.64	NA	NA	NA	NA
MW-1	16-Dec-13	5579.56	15.59	15.75	0.16	5563.81	5563.93	NA	NA	NA	NA
MW-2	07-Sep-12	5573.23		16.29		5556.94		7.31	4.234	1.03	16.67
MW-2	20-Dec-12	5573.23		16.22		5557.01		7.61	3.511	1.45	15.42
MW-2	20-Mar-13	5573.23		15.97		5557.26		7.50	6.788	1.06	14.88
MW-2	19-Jun-13	5573.23	15.96	16.40	0.44	5556.83	5557.15	NA	NA	NA	NA
MW-2	17-Sep-13	5573.23	16.40	16.54	0.14	5556.69	5556.79	NA	NA	NA	NA
MW-2	16-Dec-13	5579.23	16.14	16.22	0.08	5563.01	5563.07	NA	NA	NA	NA
MW-3	07-Sep-12	5579.35		15.98		5563.37		7.33	5.706	2.24	15.29
MW-3	20-Dec-12	5579.35		15.79		5563.56		7.13	4.496	2.30	13.84
MW-3	20-Mar-13	5579.35		15.50		5563.85		7.33	8.893	2.62	13.63
MW-3	19-Jun-13	5579.35		15.66		5563.69		6.08	8.451	2.65	15.30
MW-3	18-Sep-13	5579.35		15.96		5563.39		6.99	9.841	0.41	17.06
MW-3	16-Dec-13	5579.35		15.70		5563.65		7.20	9.241	NA	17.54

		Surveyed	Depth to NAPL (ft below	Depth to Water (ft below	NAPL Thickness	GW Elev.	Corrected GW Elev.		Conductivity	Dissolved Oxygen	Temp.
Well ID	Date	TOC* (ft)	TOC)	тос)	(ft)	(ft amsl)	(ft)	рН	(mS)	(mg/L)	(≌C)
MW-4	07-Sep-12	5580.20		15.59		5564.61		7.30	5.564	1.46	15.77
MW-4	20-Dec-12	5580.20		15.51		5564.69		7.06	4.106	1.51	14.94
MW-4	20-Mar-13	5580.20		15.25		5564.95		7.23	7.897	1.17	14.00
MW-4	19-Jun-13	5580.20		15.41		5564.79		6.32	7.468	3.21	15.90
MW-4	18-Sep-13	5580.20		15.74		5564.46		7.11	8.425	0.49	18.42
MW-4	16-Dec-13	5580.20		15.45		5564.75		7.16	7.659	NA	17.75
MW-5	07-Sep-12	5583.36		19.35		5564.01		7.34	4.137	1.53	14.89
MW-5	20-Dec-12	5583.36		19.28		5564.08		7.00	3.438	2.65	13.74
MW-5	20-Mar-13	5583.36		19.10		5564.26		7.28	6.957	2.29	13.86
MW-5	19-Jun-13	5583.36		19.21		5564.15		7.22	6.377	1.15	15.68
MW-5	17-Sep-13	5583.36		19.55		5563.81		7.23	7.545	3.72	19.23
MW-5	16-Dec-13	5583.36		19.28		5564.08		7.44	6.793	NA	16.73
MW-6	07-Sep-12	5582.06		18.55		5563.51		7.38	4.833	1.24	15.43
MW-6	20-Dec-12	5582.06		18.49		5563.57		7.46	3.932	1.09	14.08
MW-6	20-Mar-13	5582.06		18.27		5563.79		7.38	7.571	0.79	14.36
MW-6	19-Jun-13	5582.06		18.38		5563.68		5.46	6.836	5.35	16.86
MW-6	18-Sep-13	5582.06		18.74		5563.32		7.19	8.042	0.59	17.31
MW-6	16-Dec-13	5582.06		18.46		5563.60		7.39	7.232	3.77	16.61

			Depth to NAPL	Depth to Water	NAPL		Corrected			Dissolved	
Well ID	Date	Surveyed TOC* (ft)	(ft below TOC)	(ft below TOC)	Thickness (ft)	GW Elev. (ft amsl)	GW Elev. (ft)	pН	Conductivity (mS)	Oxygen (mg/L)	Temp. (ºC)
MW-7	07-Sep-12	5582.01	100)	19.03	04	5562.98	04	7.59	4.542	1.38	15.24
MW-7	20-Dec-12	5582.01		18.97		5563.04		7.53	3.660	1.16	13.86
MW-7	20-Dec-12 20-Mar-13	5582.01		18.79		5563.22		7.45	7.512	1.10	14.40
MW-7	19-Jun-13	5582.01		18.87		5563.14		5.67	6.747	3.72	16.68
MW-7	17-Sep-13	5582.01		19.22		5562.79		7.44	4.530	2.90	20.30
MW-7	16-Dec-13	5582.01		18.96		5563.05		7.62	7.584	NA	16.85
MW-8	07-Sep-12	5577.65		14.96		5562.69		7.57	4.068	1.30	16.16
MW-8	20-Dec-12	5577.65		14.87		5562.78		7.56	3.339	0.97	15.25
MW-8	20-Mar-13	5577.65		14.63		5563.02		7.41	7.084	2.06	14.86
MW-8	19-Jun-13	5577.65		14.74		5562.91		5.68	6.235	4.21	16.43
MW-8	18-Sep-13	5577.65		15.08		5562.57		7.39	7.419	0.83	17.93
MW-8	16-Dec-13	5577.65		14.81		5562.84		7.21	6.931	2.46	17.44
								-	<u>.</u>		
MW-9	07-Sep-12	5582.31		17.55		5564.76		7.45	4.583	1.48	15.61
MW-9	20-Dec-12	5582.31		17.47		5564.84		7.14	3.369	2.29	13.06
MW-9	20-Mar-13	5582.31		17.28		5565.03		7.30	6.700	2.56	13.70
MW-9	19-Jun-13	5582.31		17.42		5564.89		7.26	6.265	1.82	14.14
MW-9	17-Sep-13	5582.31		17.74		5564.57		7.12	7.500	0.30	16.20
MW-9	16-Dec-13	5582.31		17.48		5564.83		7.49	6.786	NA	15.47

Date	Surveyed TOC* (ft)	Depth to NAPL (ft below TOC)	Depth to Water (ft below TOC)	NAPL Thickness (ft)	GW Elev. (ft amsl)	Corrected GW Elev. (ft)	pН	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (≌C)
6-Dec-13	5577.80		16.93		5560.87		7.62	10.140	0.31	13.85
6-Dec-13	5578.65		15.15		5563.50		7.65	8.945	0.65	13.21
6-Dec-13	5579.99		15.54		5564.45		7.64	6.782	0.67	13.90
.6-Dec-13	5583.03		19.88		5563.15		7.45	6.731	0.78	14.52
	6-Dec-13 6-Dec-13 6-Dec-13	Date TOC* (ft) 6-Dec-13 5577.80 6-Dec-13 5578.65 6-Dec-13 5579.99	Surveyed TOC* (ft)(ft below TOC)5-Dec-135577.806-Dec-135578.656-Dec-135579.99	Surveyed TOC* (ft) (ft below TOC) (ft below TOC) 5-Dec-13 5577.80 16.93 6-Dec-13 5578.65 15.15 6-Dec-13 5579.99 15.54	Surveyed TOC* (ft) (ft below TOC) (ft below TOC) Thickness (ft) 6-Dec-13 5577.80 16.93 1 6-Dec-13 5578.65 15.15 1 6-Dec-13 5579.99 15.54 1	Surveyed TOC* (ft) (ft below TOC) (ft below TOC) Thickness (ft) GW Elev. (ft amsl) 6-Dec-13 5577.80 16.93 5560.87 6-Dec-13 5578.65 15.15 5563.50 6-Dec-13 5579.99 15.54 5564.45	Surveyed TOC* (ft) (ft below TOC) (ft below TOC) Thickness (ft) GW Elev. (ft amsl) GW Elev. (ft) 6-Dec-13 5577.80 16.93 5560.87 1 6-Dec-13 5578.65 15.15 5563.50 1 6-Dec-13 5579.99 15.54 5564.45 1	Surveyed TOC* (ft) (ft below TOC) (ft below TOC) Thickness (ft) GW Elev. (ft amsl) GW Elev. (ft) pH 6-Dec-13 5577.80 16.93 5560.87 7.62 6-Dec-13 5578.65 15.15 5563.50 7.65 6-Dec-13 5579.99 15.54 5564.45 7.64	Surveyed TOC* (ft) (ft below TOC) Thickness (ft) GW Elev. (ft amsl) GW Elev. (ft) GW Elev. pH Conductivity (mS) 6-Dec-13 5577.80 16.93 5560.87 7.62 10.140 6-Dec-13 5578.65 15.15 5563.50 7.65 8.945 6-Dec-13 5579.99 15.54 5564.45 7.64 6.782	Surveyed Date (ft below TOC* (ft) (ft below TOC) Thickness (ft) GW Elev. (ft amsl) GW Elev. (ft) Conductivity pH Oxygen (mS) 6-Dec-13 5577.80 16.93 5560.87 7.62 10.140 0.31 6-Dec-13 5578.65 15.15 5563.50 7.65 8.945 0.65 6-Dec-13 5579.99 15.54 5564.45 7.64 6.782 0.67

Notes: NA - not analyzed

* - Resurveyed December 23, 2013 by Enterprise surveyors.

TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October 2013 Pipeline Release San Juan County, New Mexico

	Date	Sample	Benzene	Toluene	Ethyl- benzene	Xylenes	
Well ID	Sampled	Method	μg/L	μg/L	μg/L	μg/L	
	NQCC STANDA		10	750	750	620	
MW-1	07-Sep-12	8021	2,200	350	68	650	
MW-1	20-Dec-12	8021	1,100	250	37	180	
MW-1	20-Mar-13	NA		e Product P	-	-	
MW-1	19-Jun-13	NA	Fre	e Product P	resent (0.26	feet)	
MW-1	17-Sep-13	NA	Fre	e Product P	resent (0.48	feet)	
MW-1	16-Dec-13	NA	Fre	e Product P	resent (0.16	feet)	
MW-2	07-Sep-12	8021	270	1,100	66	1,800	
MW-2	20-Dec-12	8021	26	49	5.1	250	
MW-2	20-Mar-13	8260	<5.0	<5.0	<5.0	67	
MW-2	19-Jun-13	NA	Free Product Present (0.44 feet)				
MW-2	17-Sep-13	NA	Free Product Present (0.14 feet)				
MW-2	16-Dec-13	NA	Fre	e Product Pi	resent (0.08	feet)	
MW-3	07-Sep-12	8021	<2.0	<2.0	<2.0	<4.0	
MW-3	20-Dec-12	8021	<2.0	<2.0	<2.0	<4.0	
MW-3	20-Mar-13	8260	<2.0	<2.0	<2.0	<4.0	
MW-3	19-Jun-13	8260	780	130	2.5	15	
MW-3	18-Sep-13	8260	150	28	<5.0	15	
MW-3	16-Dec-13	8021	660	340	16	130	
	-		-		-		
MW-4	07-Sep-12	8021	18	5.1	<2.0	<4.0	
MW-4	20-Dec-12	8021	<2.0	<2.0	<2.0	<4.0	
MW-4	20-Mar-13	8260	290	110	<2.0	15	
MW-4	19-Jun-13	8260	600	45	<10	<20	
MW-4	18-Sep-13	8260	830	39	<20	<30	
MW-4	16-Dec-13	8021	300	110	10	63	

TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October 2013 Pipeline Release San Juan County, New Mexico

Well ID	Date Sampled	Sample Method	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L
L	NQCC STANDA	RD	10	750	750	620
MW-5	07-Sep-12	8021	<2.0	<2.0	<2.0	<4.0
MW-5	20-Dec-12	8021	<2.0	<2.0	<2.0	<4.0
MW-5	20-Mar-13	8260	<2.0	<2.0	<2.0	<4.0
MW-5	19-Jun-13	8260	<1.0	<1.0	<1.0	<2.0
MW-5	17-Sep-13	8260	<1.0	<1.0	<1.0	<1.5
MW-5	16-Dec-13	8021	2.1	4.7	4.0	17
MW-6	07-Sep-12	8021	<5.0	<5.0	260	2,200
MW-6	20-Dec-12	8021	<5.0	<5.0	180	1,200
MW-6	20-Mar-13	8260	<5.0	<5.0	120	800
MW-6	19-Jun-13	8260	9.6	6.2	150	1,100
MW-6	18-Sep-13	8260	<5.0	<5.0	180	1,200
MW-6	16-Dec-13	8021	<5.0	<5.0	140	990
MW-7	07-Sep-12	8021	<2.0	<2.0	<2.0	<4.0
MW-7	20-Dec-12	8021	<2.0	<2.0	<2.0	2.4
MW-7	20-Mar-13	8260	<2.0	<2.0	<2.0	<4.0
MW-7	19-Jun-13	8260	<1.0	<1.0	<1.0	<2.0
MW-7	17-Sep-13	8260	<1.0	<1.0	<1.0	<1.5
MW-7	16-Dec-13	8021	1.6	3.9	3.6	16
MW-8	07-Sep-12	8021	41	40	3.8	320
MW-8	20-Dec-12	8021	<2.0	<2.0	<2.0	20
MW-8	20-Mar-13	8260	41	36	<2.0	89
MW-8	19-Jun-13	8260	21	12	<1.0	6.8
MW-8	18-Sep-13	8260	<1.0	<1.0	3.4	27
MW-8	16-Dec-13	8021	18	21	5.1	74

TABLE 2. SUMMARY OF GROUNDWATER LABORATORY ANALYTICALS RESULTS Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October 2013 Pipeline Release San Juan County, New Mexico

Well ID	Date Sampled	Sample Method	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L
WQCC STANDARD			10	750	750	620
MW-9	07-Sep-12	8021	<2.0	2.4	<2.0	<4.0
MW-9	20-Dec-12	8021	<2.0	<2.0	<2.0	<4.0
MW-9	20-Mar-13	8260	<2.0	<2.0	<2.0	<4.0
MW-9	19-Jun-13	8260	<1.0	<1.0	<1.0	<2.0
MW-9	17-Sep-13	8260	<1.0	<1.0	<1.0	<1.5
MW-9	16-Dec-13	8021	1.5	3.5	2.9	12
MW-10	16-Dec-13	8021	950	34	12	39
MW-11	16-Dec-13	8021	2.6	3.5	<1.0	5.9
MW-12	16-Dec-13	8021	3.3	3.8	<1.0	5.8
MW-13	16-Dec-13	8021	4.4	5.1	1.2	7.6

Notes:

່ < μg/L

NA

Analyte not detected above listed method limit

- Micrograms per liter (ppb)

Not analyzed

TABLE 3. SUMMARY OF SOIL FIELD SCREENING RESULTS Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October 2013 Pipeline Release San Juan County, New Mexico

Sample ID	Date Sampled	Depth (ft)	OVM (ppm)
-	IMOCD Action Leve		100
C-1	01-Nov-13	0 to 6	1,420
C-2	01-Nov-13	0 to 6	484
C-3	01-Nov-13	0 to 6	1,165
C-4	01-Nov-13	0 to 6	243
C-5	01-Nov-13	6	1,267
C-6	01-Nov-13	0 to 6	291
	01-Nov-13	6	898
	01-Nov-13	7	1,315
	01-Nov-13	8	769
SB-1	01-Nov-13	9	519
	01-Nov-13	10	814
	01-Nov-13	11	880
	01-Nov-13	11.5	710
S-1	17-Dec-13	4	1,852
S-2	17-Dec-13	8	1,460
S-3	17-Dec-13	15	4,230
S-4	17-Dec-13	1 to 15	3,230
S-5	17-Dec-13	4	1,869
S-6	17-Dec-13	8	1,939
S-7	17-Dec-13	15	3,120
S-8	17-Dec-13	4	472
S-9	17-Dec-13	8	2,167
S-10	17-Dec-13	15	3,329
S-11	17-Dec-13	4	32.2
S-12	17-Dec-13	8	20.0
S-13	17-Dec-13	15	156
S-14	17-Dec-13	4	10.5
S-15	17-Dec-13	8	10.6
S-16	17-Dec-13	15	18.9
S-17	17-Dec-13	1 to 15	16.9
S-18	17-Dec-13	17-Dec-13 1 to 15 1,	
S-19	17-Dec-13	4	2,429
S-20	17-Dec-13	8	2,983

4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report July 23, 2014

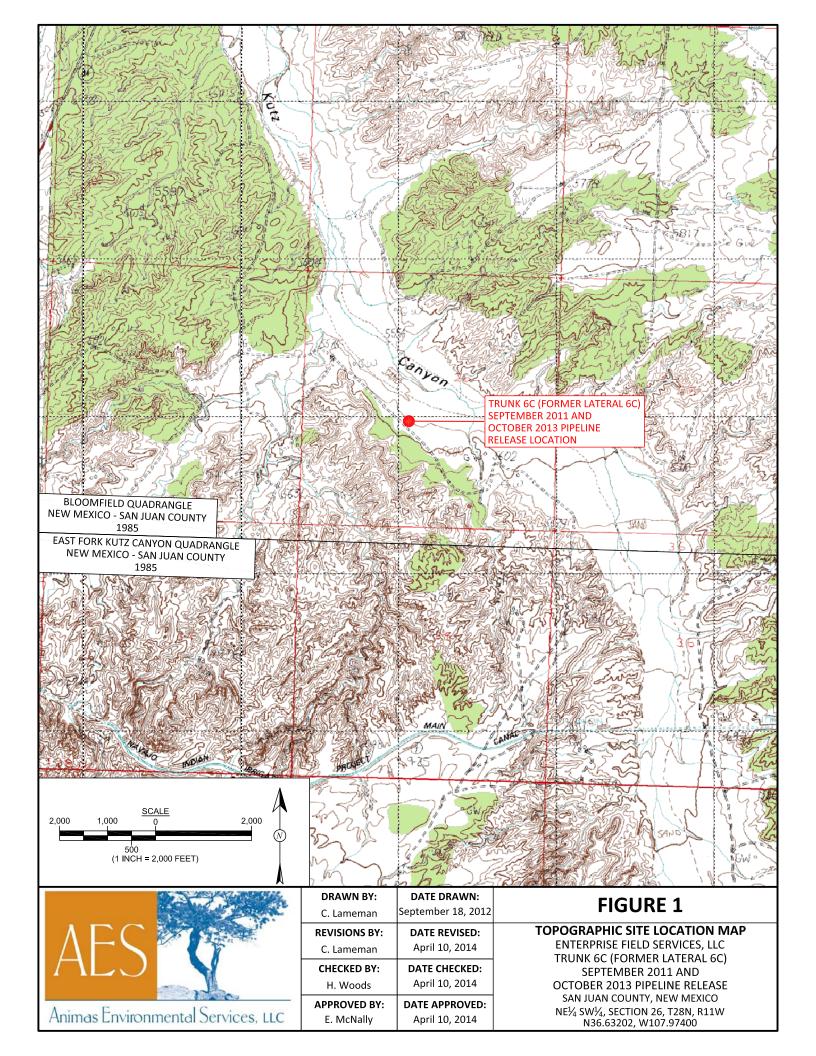
TABLE 4. SUMMARY OF LABORATORY ANALYTICAL RESULTS Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October 2013 Pipeline Release San Juan County, New Mexico

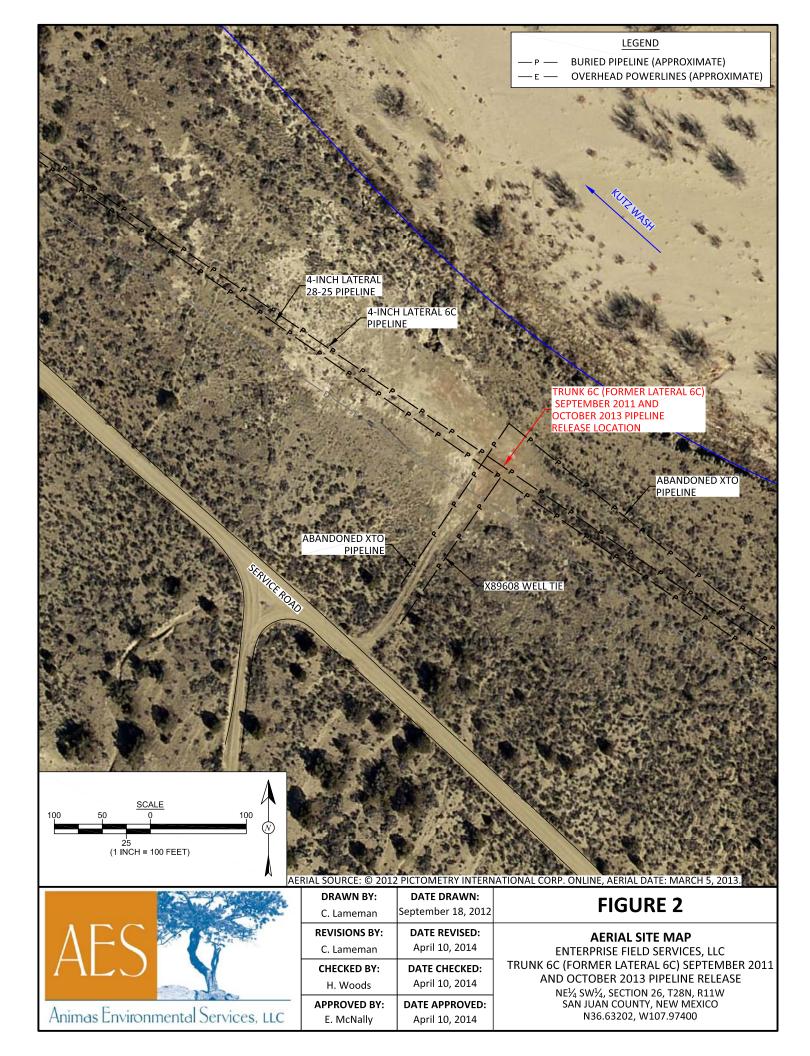
Sample ID	Date Sampled	Depth (ft)	Benzene mg/kg	Total BTEX mg/kg	TPH - GRO mg/kg	TPH - DRO mg/kg	
-	Sample Method			nod 8021B	EPA Method 8015D		
NI	MOCD Action Le	vel	10	50	1(00	
S-2	17-Dec-13	8	66	1,330	15,000	320	
S-3	17-Dec-13	15	21	586	6,200	100	
S-4	17-Dec-13	1 to 15	<0.49	86	1,000	69	
S-9	17-Dec-13	8	<0.12	6.7	94	49	
S-10	17-Dec-13	15	0.63	58	680	45	
S-11	17-Dec-13	4	<0.049	<0.244	<4.9	<10	
S-13	17-Dec-13	15	<0.048	0.11	5.6	<10	
S-17	17-Dec-13	1 to 15	<0.048	<0.239	<4.8	<10	
S-18	17-Dec-13	1 to 15	<0.048	0.16	<4.8	<10	
S-20	17-Dec-13	8	<0.12	3.8	40	330	
Notes:	NA	Not analyzed					

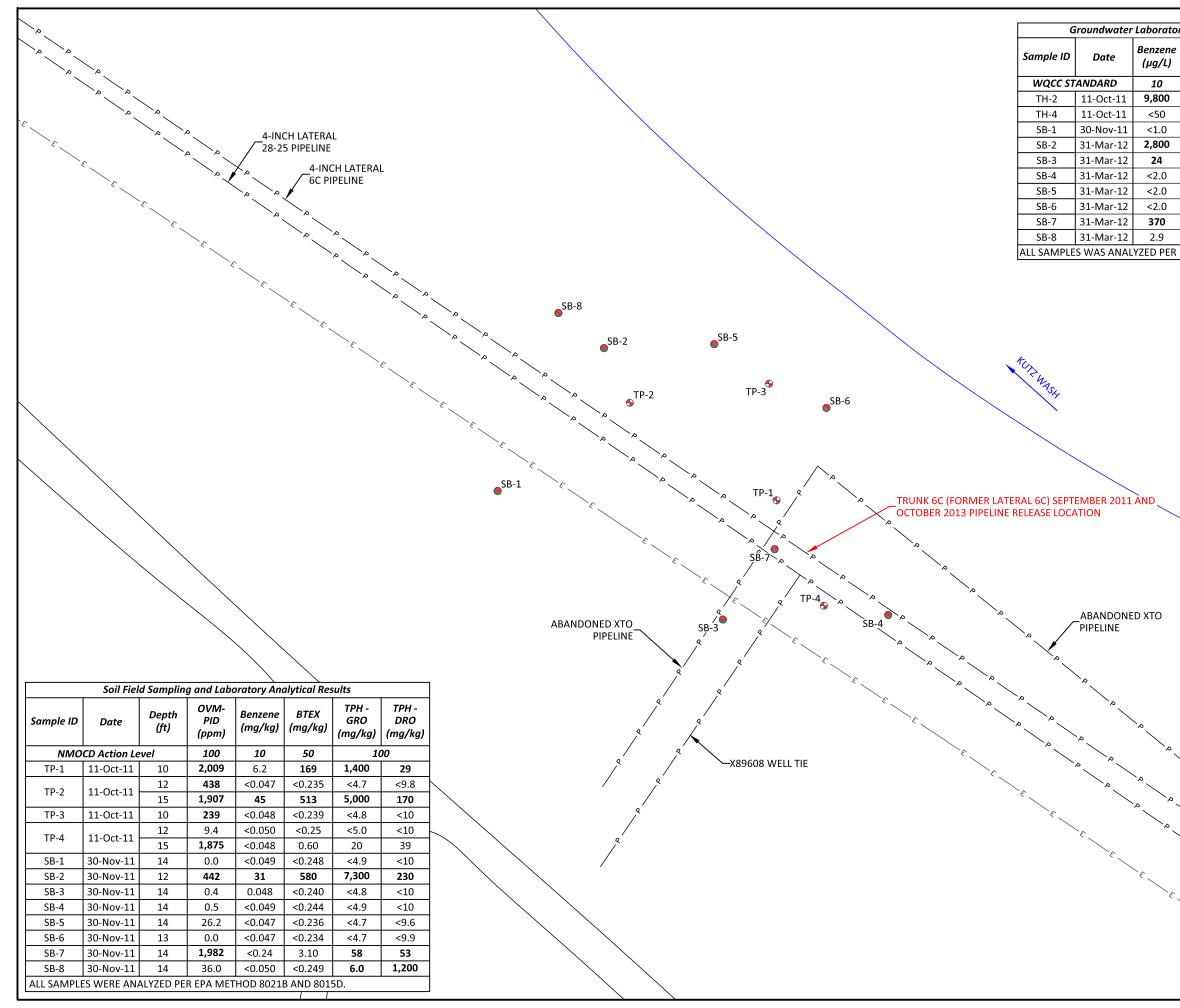
<

Analyte not detected above listed method limit

Figures







ry Analytic Toluene (µg/L)	(μg/L) Benzene (μg/L) (μg/L) (μg					
750	750	620				
15,000	540	6,700				
100	580	3,700				
<1.0	<1.0	<2.0				
5,700	280	4,000				
100	4.2	64				
8.1	<2.0	17				
<2.0	410	<4.0				
<2.0	<2.0	<4.0				
810	44	460				
3.0 <2.0 <4.0						
EPA METHOD 8021B.						



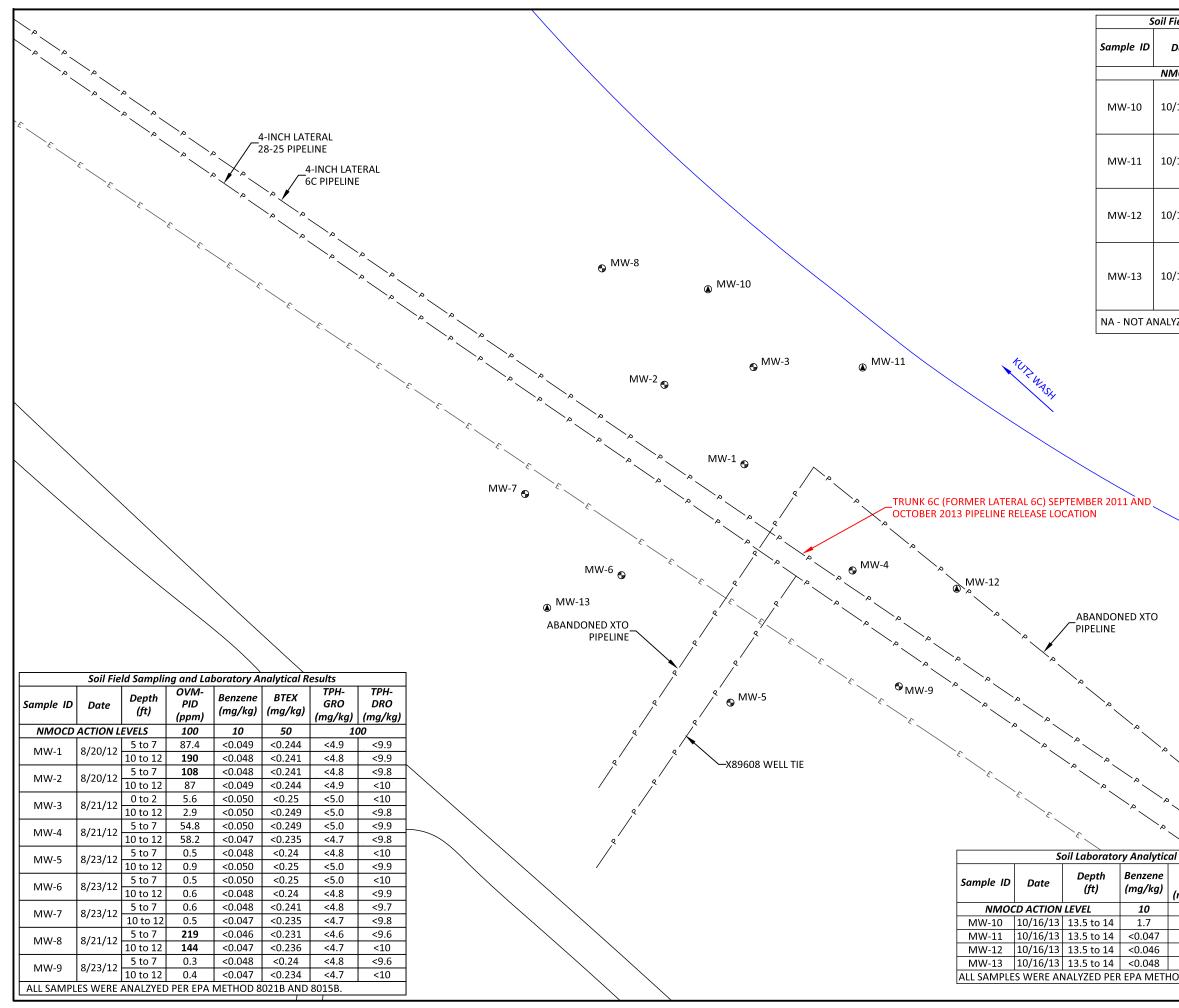
SOIL AND GROUNDWATER SAMPLE LOCATIONS AND RESULTS OCTOBER AND NOVEMBER 2011 ENTERPRISE FIELD SERVICES, LLC TRUNK 6C (FORMER LATERAL 6C) SEPTEMBER 2011 AND OCTOBER 2013 PIPELINE RELEASE NE¹/₄ SW¹/₄, SECTION 26, T28N, R11W SAN JUAN COUNTY, NEW MEXICO N36.63202, W107.97400



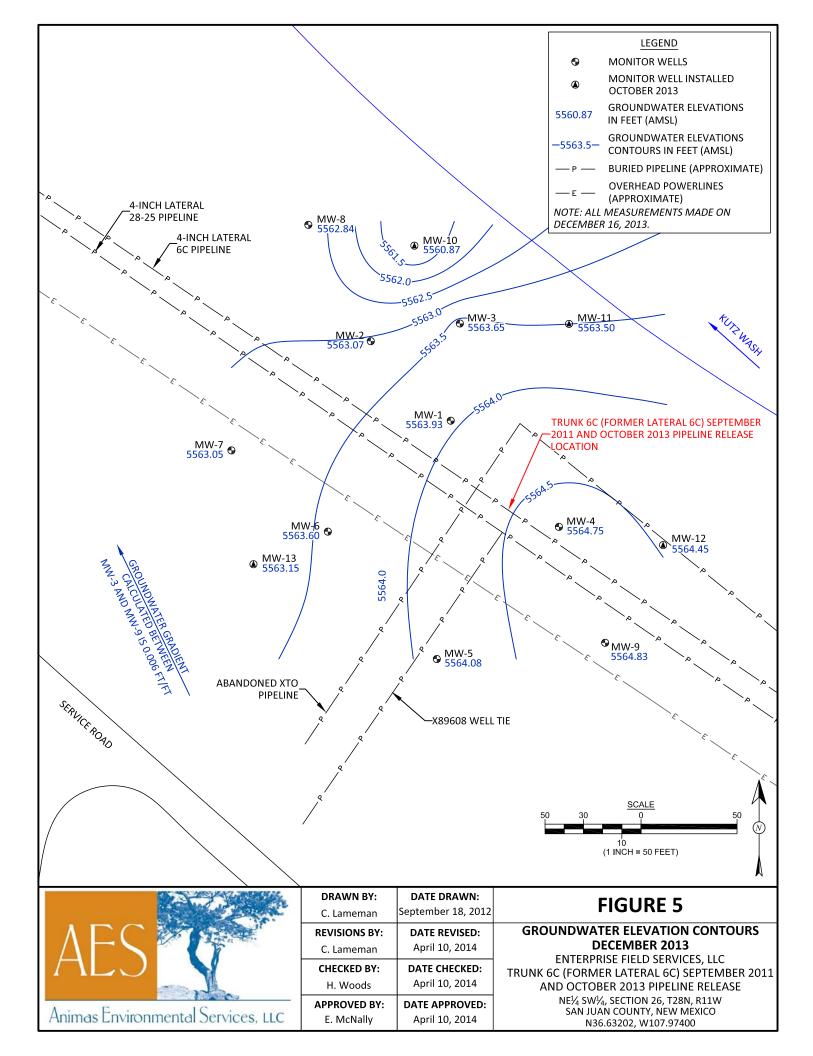
Animas Environmental Services, LLC

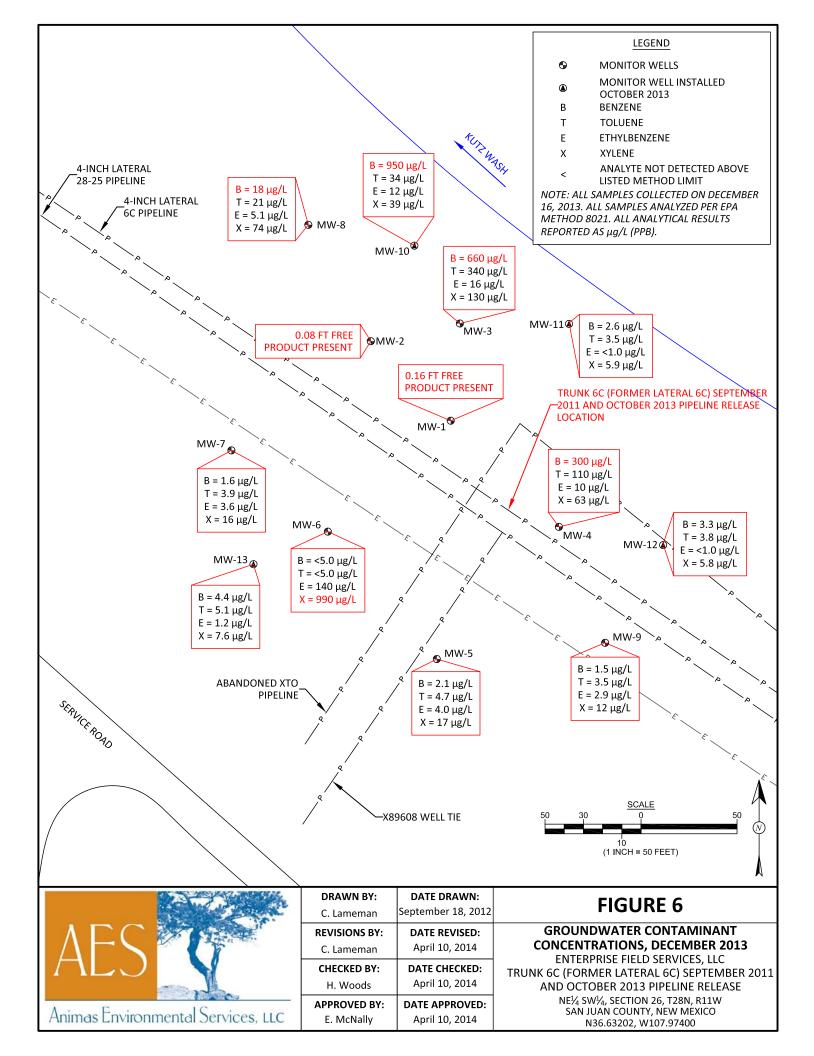
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REVISIO	ONS BY:	DATE REVISED:				
C. Larr	neman	April 10, 2014				
	ED BY:	DATE CHECKED:				
H. W	oods	April 10, 2014				
	VED BY:	DATE APPROVED:				
E. Mo		April 10, 2014				
	LEGEND					
•	SOIL BORIN	G SAMPLE LOCATIONS				
•	TEST HOLE	SAMPLE LOCATIONS				
— Р —	BURIED PIP	ELINE (APPROXIMATE)				
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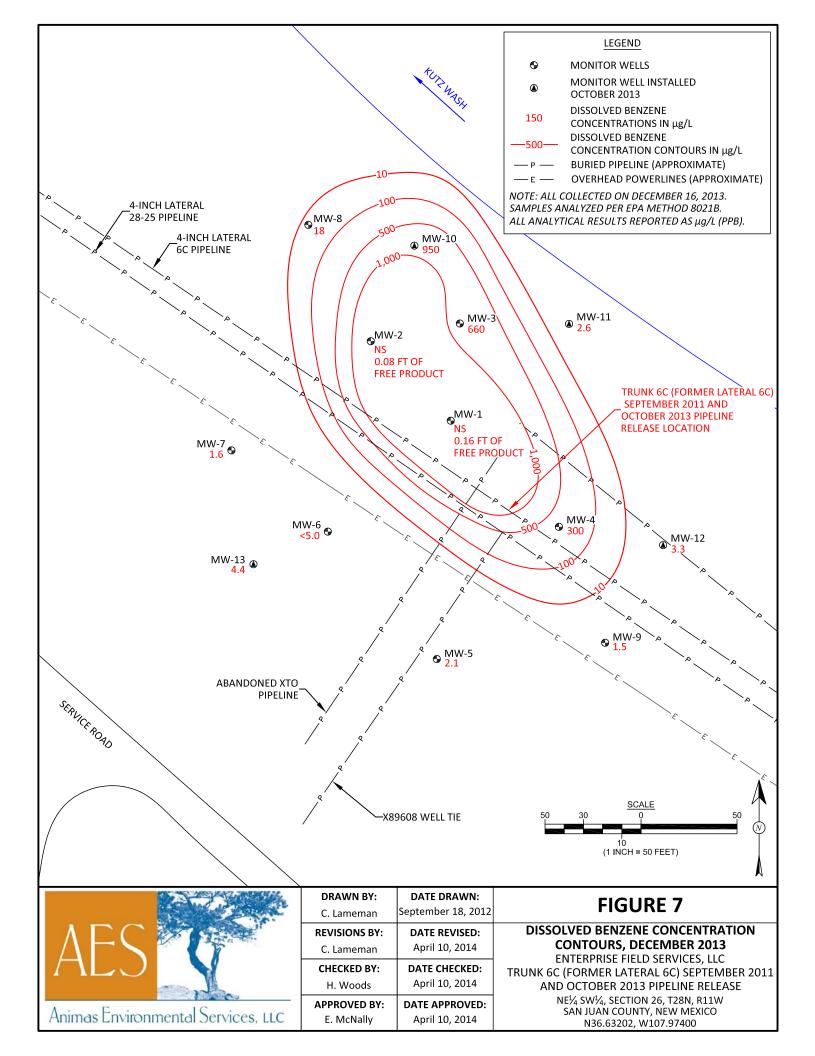
SCALE

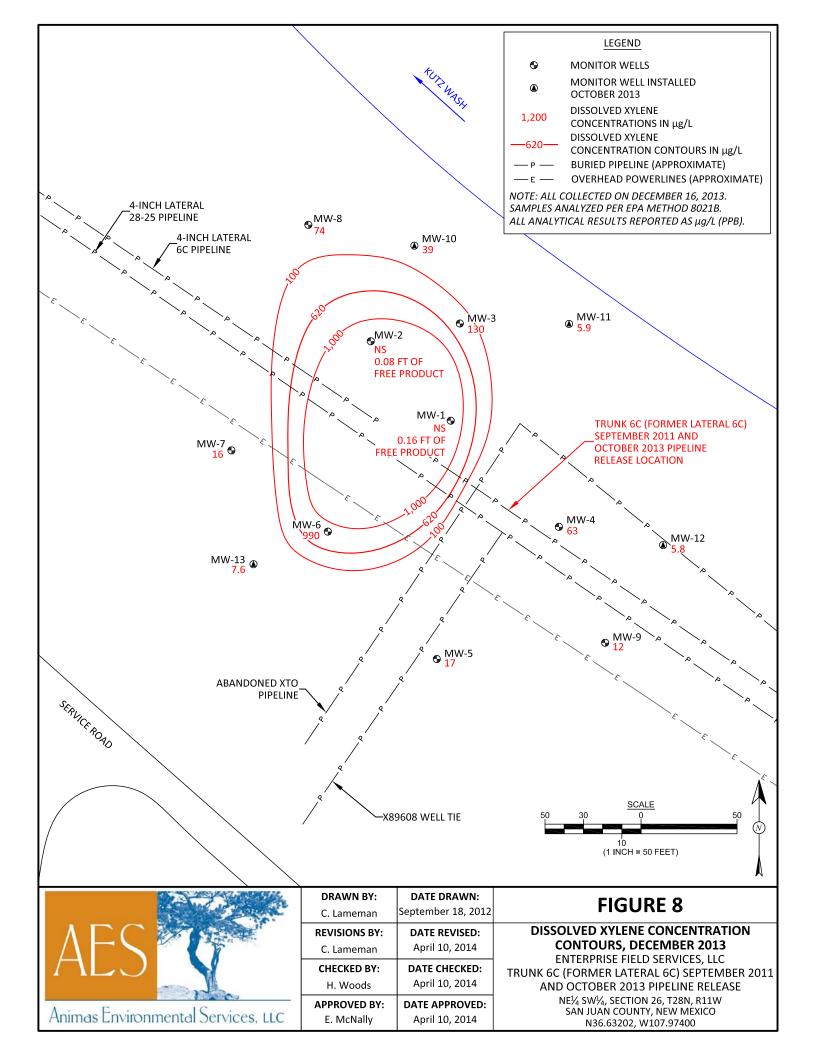


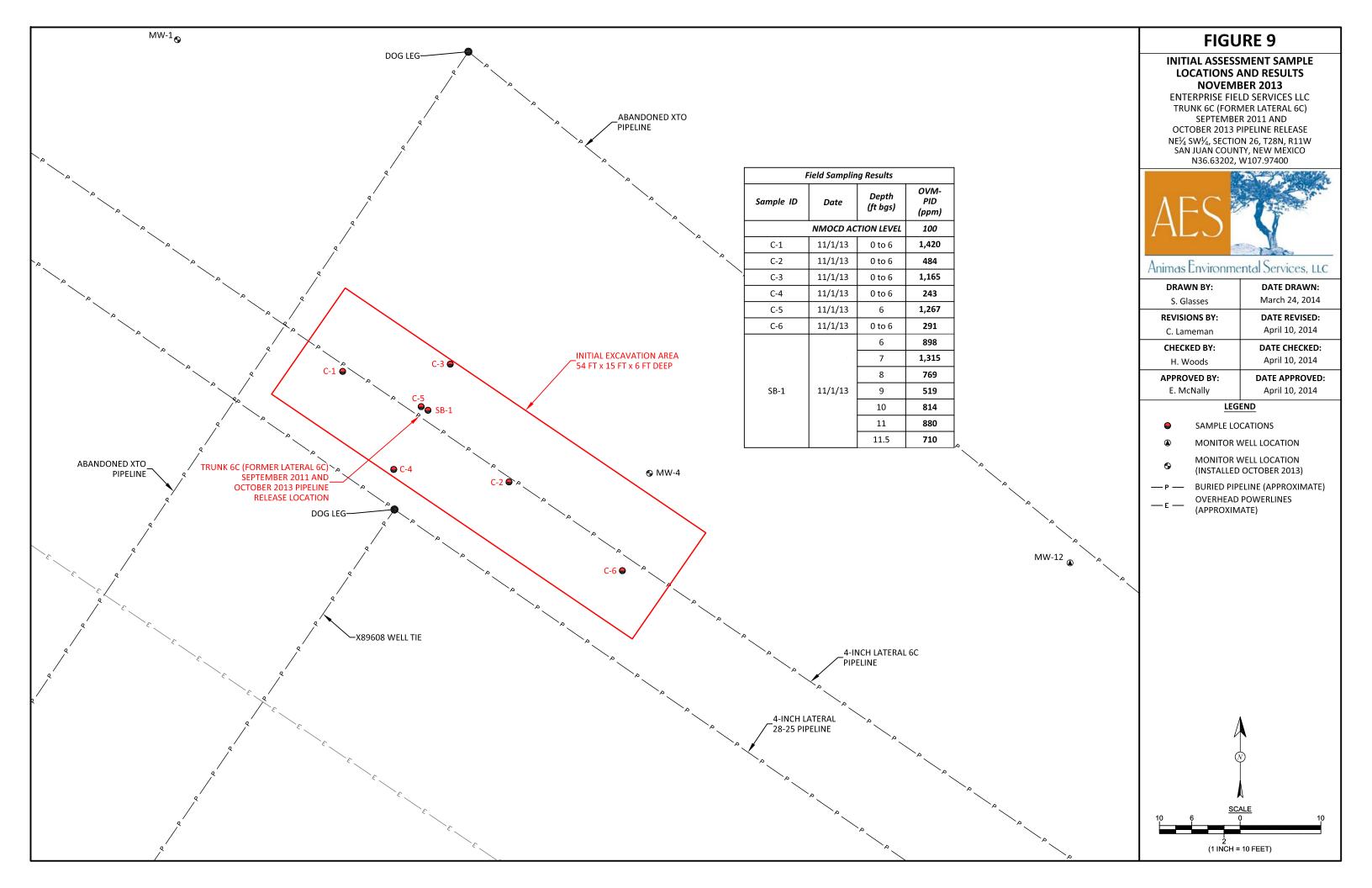
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Dete Depth (H) P(H) (ppm) 02C0 ACTION LEVEL 100 16/13 010 4 0.2 16/13 101 2 0.3 010 4 0.2 12 010 4 0.0 10 010 4 0.0 10 011 4 0.0 10 011 4 0.0 10 010 4 0.0 10 010 4 0.0 12 12 to 16 0.0 12 to 16 0.0 16 /13 8 to 12 0.0 VZED Date Environmental Services, LLC Animas Environmental Services, LLC Animas Environmental Services, LLC Revisions BY: Date ReviseD Att seviseD Att seviseD Att seviseD Att seviseD <t< th=""><th>ield San</th><th>npling Result</th><th>s</th><th>FIGU</th><th>RF 4</th></t<>	ield San	npling Result	s	FIGU	RF 4				
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E. McNally April 10, 2014 LEGEND Image: Constraint of the second sec				H. Woods	April 10, 2014				
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MONITOR WELL INSTALLED OCTOBER 2013 — P — BURIED PIPELINE (APPROXIMATE) — E — OVERHEAD POWERLINES (APPROXIMATE) — E — (APPROXIMATE) — (APPROXIM				LEG	END				
MONITOR WELL INSTALLED OCTOBER 2013 — P — BURIED PIPELINE (APPROXIMATE) — E — OVERHEAD POWERLINES (APPROXIMATE) — E — (APPROXIMATE) — (APPROXIM					NELLS				
OCTOBER 2013 — P — BURIED PIPELINE (APPROXIMATE) — E — OVERHEAD POWERLINES — E — (APPROXIMATE) — (APPROXIM				-					
-e - OVERHEAD POWERLINES A Results Total TPH - T	_								
→ → → → → → → → → → → → → → → → → → →				— P — BURIED PIPI	ELINE (APPROXIMATE)				
(APPROXIMATE) (APPRO				F					
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<0.23 <4.6 <10 <0.24		+ +		SC/	ALE				
OD 8021B AND 8015D. 10	<0.23	_	<10) 50				
00 8021B AND 8015D. 10 (1 INCH = 50 FEET)									
<u>ک</u>	UD 8021	в AND 8015[א		50 FEET)				
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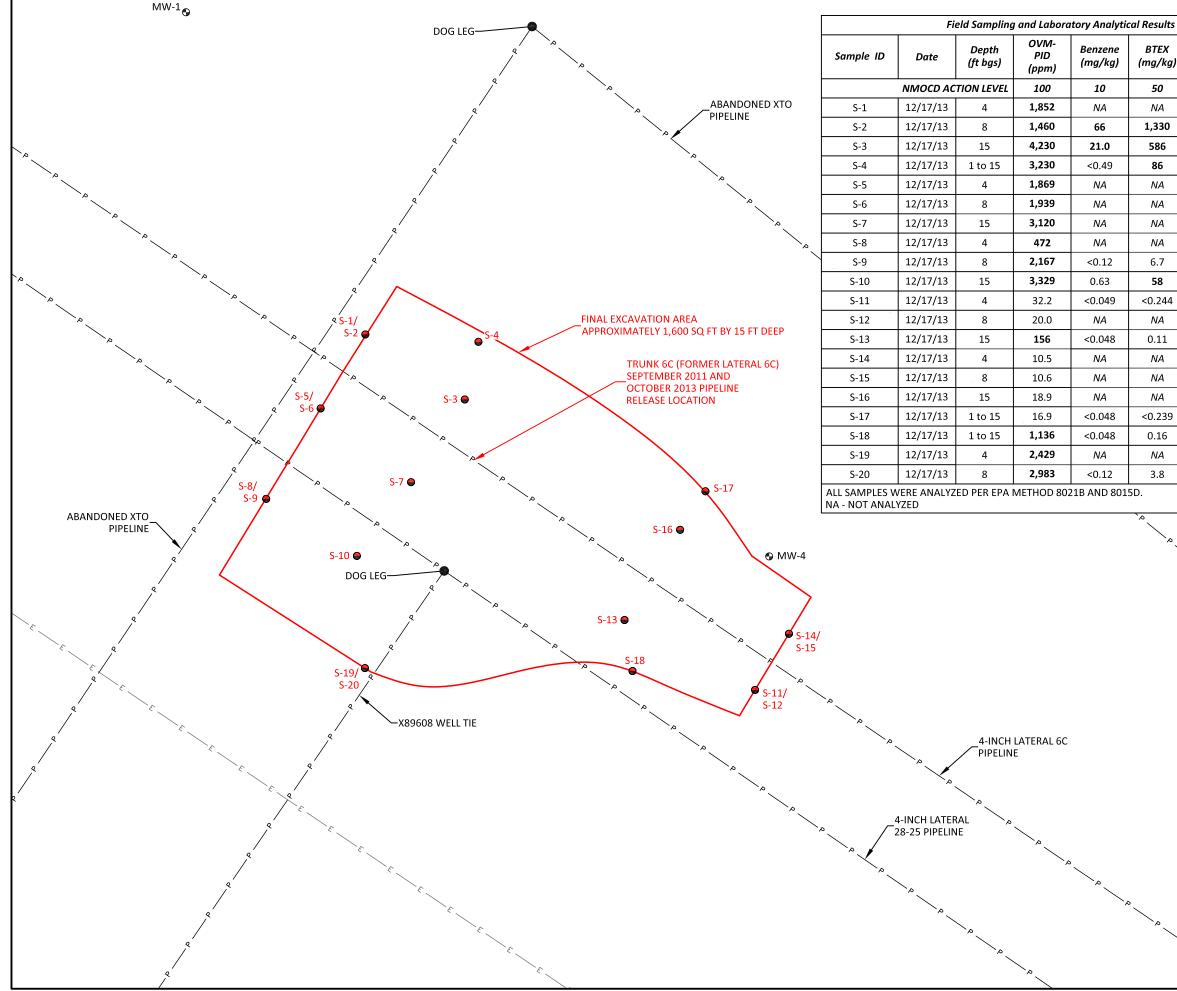




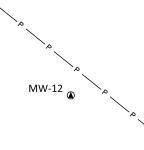


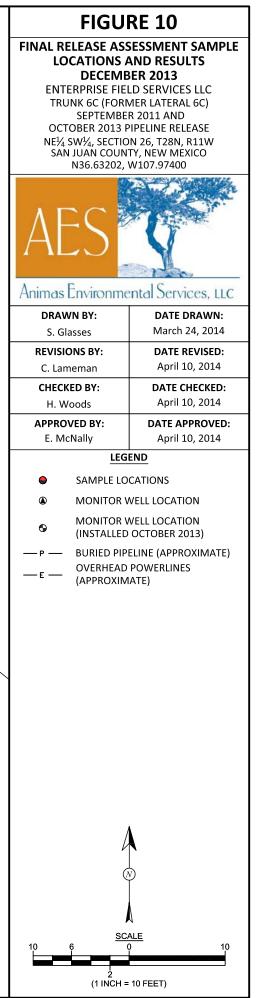






TPH- GRO (mg/kg)	TPH- DRO (mg/kg)							
100								
NA	NA							
15,000	320							
6,200	100							
1,000	69							
NA	NA							
NA	NA							
NA	NA							
NA	NA							
94	49							
680	45							
<4.9	<10							
NA	NA							
5.6	<10							
NA	NA							
NA	NA							
NA	NA							
<4.8	<10							
<4.8	<10							
NA	NA							
40	330							
	GRO (mg/kg) 10 NA 15,000 6,200 1,000 NA NA NA 94 680 <4.9 NA 5.6 NA 5.6 NA NA 5.6 NA NA 4.8 <4.8 <4.8 NA							





Appendices

Appendix A.

MON		VELL SAMPL	ING RECO	Animas Environmental Services					
Monitor Well No:									
						624 E. Comanche, Farmington NM 87401			
Site	: Groundwate	r Sampling			Tel. (505) 564-2281 Fax (505) 324-2022				
		eld Services, LLC	<u> </u>	-	Project No.: Date: 12-14-				
	Lateral 6. C		,	-	Arrival Time: 0911				
-	the second se	 Lavina Lamone			-	Air Temp: 18*			
	ge / No Purge:		Alve	and the second	- т.с	D.C. Elev. (ft):			
	Diameter (in):					ell Depth (ft):			
Initi	al D.T.W. (ft):		Time:	-		(taken at initial gaugin	a of all wells)		
Confir	m D.T.W. (ft):		Time:		·····	(taken prior to purging	- · ·		
Fin	al D.T.W. (ft):		Time:	I		(taken after sample co	llection)		
If N	NAPL Present:	D.T.P.: 15.59	D.T.W	: 15.	15 Thio	ckness: <u>0.//6</u> Tim			
		Water Quali	ty Paramet	ers - Reco	orded Du	uring Well Purging			
	Temp	Conductivity	DO	1	ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
mile		(µ3) (113)	(1116/ 5/	pn	(1117)	(see reverse for calc.)	Notes/Observations		
							·		
					10				
			15/	Fart	le				
			ND	20 m l					
			140 "						
			·····				-		
						·····			
Δ	Analytical Para	meters (include	analysis r	nethod a	nd numb	per and type of sample	containers)		
							containersy		
		В	TEX 8021B	(3x40mL	VOA w/	HCL)			
				·· · ·					
	C	Disposal of Purg	ed Water:	Into	55 gal	· drum delivered	to Etechtand		
Coll		s Stored on Ice			A				
		ustody Record (-	• •		AIA			
			-	1	'nnment	al Analysis Laboratory,			
Fauinn	nont llood Du		-						
cquipn	nent Usea Du					erface Level, YSI Water	Quality Weter		
		a <u>nd Nev</u>	v Disposab	e Bailer		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
otes/Comr	ments:								
		No	San	ple	, Pr	oduct in u	vel.		
		······		۰ - ۱					

MON		VELL SAMPL	ING REC	ORD	Animas Environmental Services			
Mor	nitor Well No:	2			24 E Comanche Earmi	ngton NM 97401		
					624 E. Comanche, Farmington NM 87401			
Site	: Groundwate	r Sampling			1	Tel. (505) 564-2281 Fax (505) 324-2022		
		eld Services, LLC	•		-	Project No.:		
	: Lateral 6. C		•		-	Date: 12-16-	201 5	
-		 Lavina Lamone		·····	-	Arrival Time: 09/3		
	ge / No Purge:			****	- 	Air Temp: <u>18° F</u>		
-	Diameter (in):	······································	e NA			D.C. Elev. (ft):		
				-	lotal we	ell Depth (ft):		
	ial D.T.W. (ft):		Time:			_(taken at initial gaugin		
	m D.T.W. (ft):	••••••••••••••••••••••••••••••••••••••	Time:			_(taken prior to purging		
	al D.T.W. (ft):		Time:			(taken after sample co		
	NAPL Present:	D.T.P.: <u>/6.14</u>	D.T.W.	.: <u>/6.22</u>	Thio	ckness: 0.08 Tim	e: <u>07/5</u>	
		Water Quali	ty Paramet	ers - Reco	orded Du	uring Well Purging		
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observations	
· · · · · · · · · · · · · · · · · · ·				1	, <u>, , , , , , , , , , , , , , , , , , </u>			
							·	
						2		
				50	\mathcal{N}			
			N	10-2				
				2				
		-						
A	Analytical Para	meters (include	e analvsis n	nethod a	nd numt	per and type of sample	containers)	
-						···	containersy	
		B	TEX 8021B	(3x40mL	. VOA w/	HCL)		
		· · · · ·						
	[Disposal of Purg	ed Water:_	Into	55 gat	· drum delivered	to Etech land	
Col		s Stored on Ice	•		N	1 .		
		ustody Record (-	(<u>y *</u>	110		
			-		P			
			-			al Analysis Laboratory,		
Equipr	ment Used Du	ring Sampling:	Keck Water	Level or	Keck Int	erface Level, YSI Water	Quality Meter	
		and New	v Disposab	le Bailer		·		
otes/Com	ments:							
		No	<rain a="" s<="" second="" td=""><td>010</td><td>0</td><td>duch in w</td><td>ell R</td></rain>	010	0	duch in w	ell R	
			Jum	me	-pro	oduct in we		
·····								
revised: 08	/10/09							

MONITORING WELL SAMPLING RECORD						Animas Environmental Services			
11101		3			624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022				
Site	Groundwate	r Sampling			Project No.:				
		eld Services, LLC	~	-	Date: 12-110.	2013			
	Lateral 6. C				Arrival Time: <u>1201</u>				
•	terration of the second s	Lavina Lamone				Air Temp: 22° F	1234 ungio		
	e / No Purge:				- т.с).C. Elev. (ft):			
-	Diameter (in):			-		ell Depth (ft): 25,58	2		
	al D.T.W. (ft):		Time:	0840		(taken at initial gaugin			
	m D.T.W. (ft):		Time:	1203		(taken prior to purging			
Fina	al D.T.W. (ft):		Time:	1238		(taken after sample co			
If N	IAPL Present:	D.T.P.:	D.T.W	.:		kness: Tim	· · ·		
		Water Quali	ty Paramet	ors - Roc		Iring Well Purging			
	Tease		ľ		T.	PURGED VOLUME			
	Temp	Conductivity	DO		ORP				
Time	(deg C)	(μS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations		
1212	15.89	10.07		7.50	-189.4	1st draw Hzo	clear Hro		
1216	16.85	9.934		7.28	-187.4	1.0 gal.	Jean Hro Slight		
1221	17.36	9.671		7.24	-179.6	20 gal.	cleer Hzo		
1228	17.63	9.429	5	7.21	761.1	3,0 gal.	clear Hzo slight		
1232	17.51	9.387		7.21	-151.5		deve H20		
1236	17.54	9.241		7.20	-136.7		Clem Hzo		
10.00		, = / /		1.00	100.1	5.0 gal.	Cum 11 20		
A	nalytical Para	meters (includ	e analysis r	nethod a	nd numb	per and type of sample	containers)		
		E	BTEX 8021B	(3x40ml	_ VOA w/	HCL)			
			<u></u>						
	C	Disposal of Purg	ed Water:	Tato "	55 a d	drum dalivera	1 to E-Tech land f		
Coll	ected Sample	es Stored on Ice	in Cooler:						
CON				•					
	chain of C	ustody Record	-						
			•			al Analysis Laboratory,			
Equipm	nent Used Du				······	erface Level, YSI Water			
		and Net	<u>v Disposab</u>	le Baile r	Peri	stattic Pump			
otes/Comn	nents:								
9.881	tzo column	<i>,</i>							
· •	120 volume								
	•					an a su an ann an			
revised: 08/	10/00 4 4					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	· · · · · · · · · · · · · · · · · · ·		
4.85 que vised: 08/	al - pinged 10/00								

MON	ITORING V	VELL SAMPL	ING RECO	Animas Environmental Services				
Monitor Well No: 4						624 E. Comanche, Farmington NM 87401		
						Tel. (505) 564-2281 Fax (505) 324-2022		
Site	Groundwate	r Sampling				Project No.:		
Location:	Enterprise Fi	eld Services, LLC			_	Date: 12-16-	2013	
Project:	Lateral 6. C					Arrival Time: 1244	(312 Somple)	
-	-	Lavina Lamone				Air Temp: <u>24° F</u>		
-	ge / No Purge:		e).C. Elev. (ft):		
	Diameter (in):					ell Depth (ft): <u>73.86</u>		
	al D.T.W. (ft):		-	0908		(taken at initial gaugin		
		15.45	Time:	1248		(taken prior to purging		
	al D.T.W. (ft): NAPL Present:		Time: D.T.W.	1315		(taken after sample co kness: Tim		
	VAPL Present:						e:	
		Water Quali	ty Paramet	ers - Rec	orded Du	aring Well Purging		
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)		Notes/Observations	
1257	14.90	7.813		7.35	-131.5	1st draw Hzo	clear H20	
1300	17.05	7.855		7.28	-130.4	1.0 gal	clean Hzo	
1303	17.31	7.839		7.2/	-112.4	2.0 gal	clour Han	
1304	17.56	7.791	3.47	7.17	-95.6	212 24	clein Hzo clein Hzo sight clein Hzo clier Hzo	
1312	17.75	7.659		7.16	-77.7	Hor cal	alian H20	
1312		1.431		1.70	11.7	7.25 gui	cuer "Co	
	11-1-20-1-2-,							
Δ	Analytical Para	meters (include	e analysis r	nethod a	nd numł	per and type of sample	containers)	
~		-					containersj	
		E	3TEX 8021B	(3x40ml	. VOA w/	HCL)		
	Ľ	Disposal of Purg	ed Water:	Into :	55 gal	. drum delivered	1 to E-Tech landfe	
Col	lected Sample	s Stored on Ice	in Cooler:	Yes				
		ustody Record		•				
					ronment	al Analysis Laboratory,	Albuquerque, NM	
Eauipn	nent Used Du		•			erface Level, YSI Water		
						stalfic Pump		
otes/Comr	ments:	[[1011	JIAITIC Fump		
-	2° Column							
	e ^o volume							
4.25 ga	· pinged						· · · · · · · · · · · · · · · · · · ·	
ieviseu: 08/	10/09							

	NITORING V	VELL SAMPL	ING REC	Animas Environmental Services					
Monitor Well No: 6						624 E. Comanche, Farmington NM 87401			
						Tel. (505) 564-2281 Fax (505) 324-2022			
Site	: Groundwate	Sampling		1	Project No.:	(303) 321 2022			
Location: Enterprise Field Services, LLC						Date: 12-114-	2013		
	: Lateral 6 C				Arrival Time: 1031				
-	The second se	Lavina Lamone			_	Air Temp: 17°F			
	ge / No Purge:				- т.с	D.C. Elev. (ft):			
Well	Diameter (in):	2				ell Depth (ft): 25.40)		
Initi	ial D.T.W. (ft):	19,27	Time:	0825	5	(taken at initial gaugin	g of all wells)		
Confir	m D.T.W. (ft):	19.28	Time:	10:3	4	_ (taken prior to purging	well)		
Fin	al D.T.W. (ft):	19.34	Time:	10:57	4	(taken after sample co	llection)		
lf N	NAPL Present:	D.T.P.:	D.T.W			ckness: Tim	e:		
		Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1039	14.96	6.789	<u>,</u>	7.67	2.4	1st draw of Hzo	Tan H20 slight sheen		
1044	16.21			7.47	1	1000 06/12	1+ Slight Gray Hzo Sheen		
	1	6.825			28.4	1.0 gal 2.0 gul.			
1047	16.42	6.816		7.45	33.2		It gray Hzo Sheen		
053	/6.73	6.793		7.44	34.7	3.0 gal.	It gray to sheen		
						- 			
							······································		
		<u> </u>		L					
<i>F</i>	Analytical Para	meters (include	e analysis i	method a	nd numb	per and type of sample	containers)		
		E	TEX 8021E	3 (3x40ml	_ VOA w/	/ HCL)			
	C	isposal of Purg	ed Water:	Into :	55 gal	. drum delivered	1 to ETech landf		
Col	llected Sample	s Stored on Ice	in Cooler:	Yes					
		ustody Record							
					ronment	al Analysis Laboratory,	Albuquerque, NM		
	ment Used Du					erface Level, YSI Water	······		
Equipr			v Disposab			taltic Pump	-6		
Equipr		1				in the later of the second			
otes/Com									
otes/Com		lumn			4.57				
otes/Com	Hz votuno	1							
otes/Com		1							

MOI		VELL SAMPL	ING REC	ORD	Animas Environmental Services				
Monitor Well No: 6						624 E. Comanche, Farmington NM 87401			
1110			************************		Tel. (505) 564-2281 Fax (505) 324-2022				
Sito	: Groundwate	r Sampling							
	********	eld Services, LLC	`		Project No.:				
	: Lateral 6. C			-	Date: 12-11e-	11ELC			
•		- Lavina Lamone		-	Arrival Time: 1/29 (Isi ample			
	ge / No Purge:				- •	Air Temp: <i>ه رو</i> D.C. Elev. (ft):			
	Diameter (in):		e	-		-			
	• •		Timor			el l Depth (ft): <u>24,9</u>7 (taken at initial gaugin	a of all welle)		
		18.46		0832		(taken prior to purging			
Comm		18.46		1132		_(taken after sample co			
		<u> </u>	-	1155					
	NAPL Present:	D.1.P.:		· · ·		ckness: Tim	e:		
		Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1142	15.97	7.145		7.53	-253.8	1st draw	slight Seen avon		
1144	16,14	7.146		7.49	-259.3		acarsh the theen		
					1	1 1 .	gray in nor sight		
1147	14.37	7.193		· · _	-264.6				
115/	16.61	7.232	3.77	7.39	-276.8	3.25 gal.	gray/ clean the		
							-		
				1					
			·····						
		un at a un /iu al uni							
+	Analytical Para	imeters (includ	e analysis r	nethod a	na numi	ber and type of sample	containers)		
		E	3TEX 8021B	(3x40ml	. VOA w/	[/] HCL)			
			1						
	r	Nichocol of Dung	ad Matan	, y		N N N			
					>> gal	· drum delivered	1 to E-Tech lands		
Col	lected Sample	s Stored on Ice	in Cooler:	Yes					
	Chain of C	ustody Record	Complete:	Yes					
		Analytical La	aboratory:	Hall Envi	ronment	al Analysis Laboratory,	Albuquerque, NM		
Equipr	ment Used Du		-			erface Level, YSI Water			
		-		***********************					
otes/Com	ments:	4	lzo has	"rotte	1 Paas	" odor.	<u>`</u>		
	Hzu Colum		<i>v</i>						
		•	······································			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
-	H2º Volume								
3.25	gal purged								
revised: 08	×10/09 ' '								

MON		VELL SAMPL	ING REC		Animas Environmental Services			
Monitor Well No: 🔗						524 E. Comanche, Farmi	ngton NM 87401	
		<i>i</i>			Tel. (505) 564-2281 Fax (505) 324-2022			
Site	: Groundwate	r Sampling		1	Project No.:			
	•	eld Services, LLC	~		_	Date: 12-110-	2013	
Project: Lateral 6 C						Arrival Time: 1329	(358 Sample	
•		Lavina Lamone)		-	Air Temp: 26°	The same interactive contribution of the second contractive control in the second second of	
	ge / No Purge:				- т.с	D.C. Elev. (ft):		
Well	Diameter (in):					ell Depth (ft): 24.37	a	
Initi	ial D.T.W. (ft):	14.81	Time:	0851		(taken at initial gaugin		
Confir	m D.T.W. (ft):	14.81	Time:	13.33		(taken prior to purging	well)	
Fin	al D.T.W. (ft):		Time:	1400		_ (taken after sample co	llection)	
If I	NAPL Present:	D.T.P.:	D.T.W	••	Thie	- ckness: Tim	e:	
		Water Quali	ty Paramet	ers - Rec	orded Di	uring Well Purging		
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations	
1343	15.34	6.754		7.62	-72.3	1st drAw of H20	(t gray Hto shew	
1344	17.04	6.820	2.48	7.32		1.0 gal	clean Hzo	
	1				+	1		
1349	17.25	6.829	8.41	1	-79.2	V	chem Hzo	
1352	17.32	6.867	2.41	7.22	-835	3.0 gal	der the silen	
1354	17.43	le. 904	-2.43	7.21	-87.9	4.0 gal	cher HED	
1358	17.44	6.931	2.44	7.2/	-91.4	4.75 gal.	dea Hu	
ļ	Analytical Para	ameters (includ	e analysis r	method a	nd numl	ber and type of sample	containers)	
		[3TEX 8021B	3 (3x40ml	. VOA w/	/ HCL)		
			·····					
	1	Disposal of Pure	red Water	TL	SC . 1	draw -1 atana	An Gralla	
Cal	lactod Comel	- sposa or rare	in Coolor	+nru :	<u>-> ja)</u>	. drum delivered	i i criech iand	
COL		es Stored on Ice		•				
	Chain of C	ustody Record		•		· · ·		
			•			tal Analysis Laboratory,		
Equipr	ment Used Du	-				erface Level, YSI Water	Quality Meter	
		and Me	w Disposab	l <u>e Baile</u> r	Peri	istallic Pump		
lotes/Com	ments:					······································		
9.5	6 1/2 col	um l	Well has	Stano.	. <i>a</i>	product odor		
	le He volu		- 1 rus	Juger	· · · · /	product DADK		
<u> </u>	y no volu	m						
revised	7 gal							
revised: 08								

MO		WELL SAMPL	ING REC		Animas Environmental Services				
Monitor Well No: G									
10101	nitor wen no:	<u> </u>			624 E. Comanche, Farmington NM 87401				
Sito	Croundwate	n Compling				Tel. (505) 564-2281 Fax (505) 324-2022			
	: Groundwate	ield Services, LLC	~			Project No.:			
	: Lateral 6. (•		Date: 12-16-				
-	Contraction of the second seco	: Lavina Lamone	`		Arrival time: 0922	1025 Sample The			
-	ge / No Purge	······			- т (Air Temp: <u>16° F</u> D.C. Elev. (ft):	****		
	Diameter (in)		C			ell Depth (ft): 25.88			
	• •	2	Time:			(taken at initial gaugir			
	m D.T.W. (ft)	in the second	Time:	0818	2	_(taken prior to purging			
	nal D.T.W. (ft)		Time:			_(taken after sample co			
	• •	. D.T.P.:	-		Thi				
		·····							
	7	Water Quali	ty Paramet	ters - Rec	orded D	uring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations		
1014	15.42	4.488		7.76	59.4	LR col	Armaish Have		
1019	15.35	6.752		7.59	63.9	1.0 gal	grayish Hzo dear Hzo		
1022	15.41	6.771				2.º gal	deor IFLO		
	1	6.786		1	70.5	2.º gol 3.0 gal 4.15 gal.	clean Hzo clean Hzo		
1025	15.47	6.106		7.49	74.5	4.15 gal.	clem H20		
]	· · · ·			
					[
	Analytical Par	ameters (includ	e analysis i	method a	und num	ber and type of sample	containers)		
•		-	-				containersy		
		E	3TEX 8021E	3 (3x40ml	L VOA w/	/ HCL)			
				·····					
		Disposal of Purg	ed Water:	Into !	55 gal	. drum delivered	1 to ETech landfa		
Col	llected Sample	es Stored on Ice	in Cooler:						
		Custody Record							
				•	ronment	al Analysis Laboratory,			
Envir	mont line - De								
Equipi	nent Usea Du					erface Level, YSI Water	Quality Meter		
		and the	<u>∧ Dispesab</u>	ne saner-	thmp				
otes/Com		<u> </u>							
040	> the co. F the volu	lumn							
1.31	+ the volu	ne							
4.11	gal pure	rel							
revised: 08	3/10/09	/							

MON		NELL SAMPL	ING REC	ORD	Animas Environmental Services				
Monitor Well No: 10									
	intor wenno:			624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022					
Site	: Groundwate	r Sampling							
		eld Services, LLC	~	_	Project No.: Date: 12-14-201 3				
1	: Lateral 6. C	·		-	Arrival Time: 1000	En la la			
	······································	Lavina Lamone)		-	Air Temp: 33° F	Er 1421 Sauge		
	ge / No Purge:				- т.с	D.C. Elev. (ft):			
Well	Diameter (in):	13	1" ~e	ī ·	Total We	ell Depth (ft): 20.8	3		
Initi	ial D.T.W. (ft):	16.97	Time:	085	7-	(taken at initial gaugin	ng of all wells)		
	m D.T.W. (ft):		-			(taken prior to purging			
Fin	al D.T.W. (ft):	15.00	Time:	162:	3	(taken after sample co			
If P	NAPL Present:	D.T.P.:	D.T.W	•••	Thio	ckness: Tim	e:		
		Water Quali	ty Paramet	ers - Rec	orded Du	aring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)			
1607	12.04	10.09	1.74	7.57	-69.7	1st Hzo drAW of HTO	clear Hio shight		
1613	13.59	10.15	054	7.61	-100.3	•25 gal.	clein Hro		
1618	13.51	10.14	0.38	7.63	-105.5	•25 gal. •5 gul.	Clear H20		
1621	13.85	10.14	0.31	7.62	-109.6		clam 1/20		
							· · · · · · · · · · · · · · · · · · ·		
Δ	Analytical Para	ameters (includ	e analysis r	nethod a	nd numl	per and type of sample	containers)		
		E	3TEX 8021B	(3x40mL	. VOA w/	' HCL)			
	<u> </u>								
	ľ	Disposal of Purg	ed Water:	Into 5	55 aal	· drum delivered	1 to Etech land fo		
Col		es Stored on Ice			<i></i>				
		ustody Record							
			-		ronment	al Analysis Laboratory,			
Fauinn	nent lised Du		-			erface Level, YSI Water			
счари		•••			·	altic fump	קעמוונץ ואוכופו		
otes/Comr	ments:				16012	arric rump			
)	" well			******			
. 24	H-10 1/11	une /	will						
. 75	Hzo CO Hzo Vulu Gal. purg	me							
e /フ	gar, purg 10/09	ed	·······						

MON		NELL SAMPL	ING REC	Animas Environmental Services					
Monitor Well No: //									
						624 E. Comanche, Farmington NM 87401			
Cita	. Charles de cata			<u> </u>	Tel. (505) 564-2281 Fax (505) 324-2022				
	Groundwate	·····	~		Project No.:				
	Lateral 6. C	eld Services, LLC	-			Date: 12-16.			
-	term sources and a second s	: Lavina Lamone	、 、			Arrival Time: 1529	551 Jonple		
	ge / No Purge:				- то	Air Temp: <u>عره</u> D.C. Elev. (ft):			
-	Diameter (in):		1" ~			ell Depth (ft): 20.84			
	al D.T.W. (ft):		Time:			(taken at initial gaugin			
		15.15	- Time:	1525		(taken prior to purging			
		15.29	-	1535 1552		(taken after sample co			
		D.T.P.:	-			 ckness: Tim	· · ·		
		Water Quali	tv Paramet	ers - Rec		uring Well Purging			
·	Tawa	I	1		T	PURGED VOLUME			
	Temp	Conductivity	DO		ORP				
Time	(deg C)	(μS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)			
1539	12.37	8.875	1.34	7.83	-52.5	1st drow of 1/20	clea the sheen/odor		
1543	1321	8.920	0.98	7.70	-49.8		clear Hzo Slight		
1547	13.27	8.934	0.77	7.76	-52.3		cleer H20		
1551	13.21	8.945	0.65	7.65	-55,0		Cler Hro		
	· · · ·					15920			
							·		
					, *				
							······································		
l		. /:	l		I				
А	Analytical Para	ameters (includ	e analysis r	nethod a	nd numb	per and type of sample	containers)		
	·······	E	BTEX 8021B	(3x40mL	. VOA w/	HCL)			
					55 gal	. drum delivered	to ETech landfa		
Col		es Stored on Ice				·····			
	Chain of C	ustody Record	Complete:	Yes					
			-	•	ronment	al Analysis Laboratory,	Albuquerque, NM		
Equipn	nent Used Du		-			erface Level, YSI Water			
			v Disposab			istaltic Pum			
otes/Comr	ments:	1	•		<u>v</u> cr	DALLE MA	1		
	70 Hro-col	lung	I" well	ch.	en ma	Hzo, slight A	work of adap		
	3 Hzo Volu			1 511		- <u>pro-</u> - 21'ght f	NUGUCI ONON		
		7				· · ·			
revised · 02	5 gal. pru g								
GVISEU, 00/	10/03								

MOI	MONITORING WELL SAMPLING RECORD					Animas Environme	ental Services		
		_		OND					
IVIO	nitor Well No:	12		_	624 E. Comanche, Farmington NM 87401				
					Tel. (505) 564-2281 Fax (505) 324-2022				
	: Groundwate		~~~~~			Project No.:			
	Frank and a state of the second state of the s	eld Services, LLC				Date: 12-16.			
•	: Lateral 6. C					Arrival Time: 1409 (1441 Sample		
		Lavina Lamone				Air Temp: 28			
	Purge / No Purge:PurgeWell Diameter (in):I					D.C. Elev. (ft):	**************************************		
						ell Depth (ft): 21,18			
Initial D.T.W. (ft): 15.53 Time: 690					6	_(taken at initial gaugin			
	Confirm D.T.W. (ft): 15.54 Time: 1414				,	_(taken prior to purging	· ·		
Final D.T.W. (ft): <u>/5.56</u> Time: <u>1442</u> If NAPL Present: D.T.P.: D.T.W.:					(taken after sample co	•			
11 1		D.1.F	D.1.vv	••		ckness: Tim	e:		
		Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
433	1283	6.547	1.24	7.79	-104.7	1st draw of the	clowe H20		
122	13.91	6.698	0.67	7.68	-86.9		der H20		
<u>721</u> 14.1)	1			7.64	-81.3	V.S gut			
174]	13.90	6.782	067	1.67	013	1.0 gal.	clear HZO		
	×								
						· · · · ·			
					-				
	Analytical Par	motors (includ	o opolycic r	nothod o		Der and type of sample	oontoin		
					na numi	ber and type of sample	containers)		
		E	BTEX 8021B	(3x40ml	. VOA w/	HCL)			
	E	Disposal of Purg	ed Water:	Into "	55 a.l	drum delivered	to E-Tech landfe		
Col	lected Sample	es Stored on Ice	in Cooler	<u> </u>	j~1	- un utivertu	in recy ment		
	chain of C	ustody Record	-	·······					
			•			al Analysis Laboratory,			
Equipr	nent Used Du	ring Sampling:	Keck Water	Level or	Keck Int	erface Level, YSI Water	Quality Meter		
		and Neg	v Disposab	le Bailer	- Per	istaltic Pamp	D		
otes/Com	ments:		1" well		grow				
5.64	the colu	.mn			3				
6,22	Ho Volu								
75	gd. purg					undersammenten and a state of the state of the second state of the			
evised: 08	10/09								
		1							

MO	NITORING V	VELL SAMPL	ING REC	ORD		Animas Environme	ental Services			
Мо	nitor Well No:	13			6	524 E. Comanche, Farmi	ington NM 87401			
					1	Tel. (505) 564-2281 Fax	-			
Site	e: Groundwate	r Sampling			1	Project No.:				
		eld Services, LLC	2		-	Date: 12-110.	2013			
	t: Lateral 6 C			···· · · · · · · · · · · · · · · · · ·	Arrival Time: 1450 (1519 Sample)					
Sampli	ing Technician:	Lavina Lamone	2		Air Temp: 30'					
Pur	rge / No Purge:	Purg	e		- т.с	D.C. Elev. (ft):				
Well	Diameter (in):	3	1" or			ell Depth (ft): <u>24</u> .95				
	tial D.T.W. (ft):		Time:			(taken at initial gaugin	· · ·			
		19.88	-	1453	t en	_(taken prior to purging				
	nal D.T.W. (ft):		Time:			(taken after sample co				
If	NAPL Present:	D.T.P.:	D.T.W		Thio	ckness: Tim	ie:			
		Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging				
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations			
1502	12.82	6.73 1	1.86	7.70	-64.9	1st draw of the	Clean H20			
1507	13.96	6.757	1.46	7.52	35.8		clein H20			
1512	14.4.2	6.691	0.89	7.47	-52.7	.5 gul	clew Hzo			
1519	14.52	6.731	0.78	7.45	-55.7	· le 5 gal.	den Hzo			
							······································			
	Analytical Para	meters (includ	e analysis r	nethod a	nd numl	per and type of sample	containers)			
		E	3TEX 8021B	(3x40ml	. VOA w/	' HCL)				
	C	Disposal of Purg	ed Water:	Into 5	55 gal	. drum delivered	1 to E-Tech land			
Co		s Stored on Ice			-					
		ustody Record								
				-	ronment	al Analysis Laboratory,	Albuquerque, NM			
Equip	ment Used Du		•			erface Level, YSI Water				
		-				staltic Pump				
otes/Com	nments:									
	2- c.1	1.1	well							
5.0	7 Cokum		0091							
5.0° 0.21			0091							
	Volume		0091							

Appendix B.



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

December 23, 2013

Heather Woods Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 716-2787 FAX: (505) 324-2022

RE: Enterprise Lateral 6C

OrderNo.: 1312973

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 11 sample(s) on 12/18/2013 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported:	12/23/2013
Dute Reported.	

CLIENT: Project:	Animas Environmental Services Enterprise Lateral 6C			Client Samp Collection 1		W-3 (16/2013 12:36:00 Pl	М	
Lab ID:	1312973-001	Matrix:	Matrix: AQUEOUS Received Date: 12/18/2013 10:00:00 .					
Analyses		Result	RL Qua	l Units	DF	Date Analyzed	Batch	
EPA MET	HOD 8021B: VOLATILES					Analy	st: NSB	
Benzene		660	10	µg/L	10	12/22/2013 11:58:35	AM R15678	
Toluene		340	5.0	µg/L	5	12/21/2013 3:57:41 P	M R15667	
Ethylben	zene	16	5.0	µg/L	5	12/21/2013 3:57:41 P	M R15667	
Xylenes,	Total	130	10	µg/L	5	12/21/2013 3:57:41 P	M R15667	
Surr: 4	l-Bromofluorobenzene	89.5	85-136	%REC	5	12/21/2013 3:57:41 P	M R15667	

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- on range J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 1 of 13 Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

Date Re	ported: 12/23/2013
Date Re	$p_{01} = 12/23/2013$

CLIENT: Animas Environmental Services Project: Enterprise Lateral 6C	S		Client Sampl Collection 1		V-4 16/2013 1:12:00 PM	
Lab ID: 1312973-002	Matrix:	AQUEOUS	Received	Date: 12/	18/2013 10:00:00 AI	Ν
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	300	10	µg/L	10	12/21/2013 5:28:14 P	M R15667
Toluene	110	10	µg/L	10	12/21/2013 5:28:14 P	M R15667
Ethylbenzene	10	10	µg/L	10	12/21/2013 5:28:14 P	M R15667
Xylenes, Total	63	20	µg/L	10	12/21/2013 5:28:14 P	M R15667

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- on range J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Not Detected at the Reporting Limit Page 2 of 13 Sample pH greater than 2 for VOA and TOC only.
- Р
- RL Reporting Detection Limit

Date Reported: 12	2/23/2013
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Project:	Animas Environmental Services Enterprise Lateral 6C 1312973-003	Client Sample ID: MW-5Collection Date: 12/16/2013 10:53:00 AMMatrix: AQUEOUSReceived Date: 12/18/2013 10:00:00 AM							
Analyses		Result	RL Qual	Units	DF Date Analyzed Ba	itch			
EPA MET	HOD 8021B: VOLATILES				Analyst: NS	SB			
Benzene		2.1	1.0	µg/L	1 12/21/2013 5:58:20 PM R1	5667			
Toluene		4.7	1.0	µg/L	1 12/21/2013 5:58:20 PM R1	5667			
Ethylbenz	zene	4.0	1.0	µg/L	1 12/21/2013 5:58:20 PM R1	5667			
Xylenes,	Total	17	2.0	µg/L	1 12/21/2013 5:58:20 PM R1	5667			
Surr: 4	-Bromofluorobenzene	105	85-136	%REC	1 12/21/2013 5:58:20 PM R1	5667			

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- alue above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Not Detected at the Reporting Limit Page 3 of 13 Sample pH greater than 2 for VOA and TOC only.
- Р
- RL Reporting Detection Limit

Date Reported: 12/23/2013

CLIENT:	Animas Environmental Services	Client Sample ID: MW-6							
Project:	Enterprise Lateral 6C			Collection	n Date: 12/	16/2013 11:51:00 AM	M		
Lab ID: 1312973-004		Matrix:	AQUEOUS	Received	l Date: 12/	18/2013 10:00:00 AN	Ν		
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch		
EPA MET	HOD 8021B: VOLATILES					Analys	st: NSB		
Benzene		ND	5.0	µg/L	5	12/21/2013 6:58:37 PI	M R15667		
Toluene		ND	5.0	µg/L	5	12/21/2013 6:58:37 PI	M R15667		
Ethylben	zene	140	5.0	µg/L	5	12/21/2013 6:58:37 PI	M R15667		
Xylenes,	Total	990	100	µg/L	50	12/21/2013 6:28:31 PI	M R15667		
0	1-Bromofluorobenzene	118	85-136	%REC	5	12/21/2013 6:58:37 PI			

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- E Value above quantitation rangeJ Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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 Page 4 of 13
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Date Reported: 12/23/2013

CLIENT: Animas Environmental Service	ces		Client Samp	le ID: MW-7	
Project: Enterprise Lateral 6C			Collection 2	Date: 12/16/2013 11:22:00 AM	1
Lab ID: 1312973-005	Matrix: A	AQUEOUS	Received	Date: 12/18/2013 10:00:00 AM	1
Analyses	Result	RL Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analys	t: NSB
Benzene	1.6	1.0	µg/L	1 12/21/2013 9:29:50 PM	/ R15667
Toluene	3.9	1.0	µg/L	1 12/21/2013 9:29:50 PM	/ R15667
Ethylbenzene	3.6	1.0	µg/L	1 12/21/2013 9:29:50 PM	/ R15667
Xylenes, Total	16	2.0	µg/L	1 12/21/2013 9:29:50 PM	/ R15667
Surr: 4-Bromofluorobenzene	106	85-136	%REC	1 12/21/2013 9:29:50 PM	/ R15667

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- E Value above quantitation rangeJ Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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 Page 5 of 13
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Date Reported: 12/23/2013

CLIENT: Animas Environmental Services		(Client Sam	ple ID: MW-8	
Project: Enterprise Lateral 6C			Collection	Date: 12/16/2013 1:58:00 PM	
Lab ID: 1312973-006	Matrix:	AQUEOUS	Receive	I Date: 12/18/2013 10:00:00 AM	
Analyses	Result	RL Qual	Units	DF Date Analyzed I	Batch
EPA METHOD 8021B: VOLATILES				Analyst:	NSB
Benzene	18	1.0	µg/L	1 12/21/2013 9:59:54 PM	R15667
Toluene	21	1.0	µg/L	1 12/21/2013 9:59:54 PM	R15667
Ethylbenzene	5.1	1.0	µg/L	1 12/21/2013 9:59:54 PM	R15667
Xylenes, Total	74	2.0	µg/L	1 12/21/2013 9:59:54 PM	R15667
Surr: 4-Bromofluorobenzene	110	85-136	%REC	1 12/21/2013 9:59:54 PM	R15667

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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 Page 6 of 13
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Date Reported: 12/23/2013

CLIENT: Project: Lab ID:	Animas Environmental Services Enterprise Lateral 6C 1312973-007	Matriv	(AQUEOUS	Collection	De ID: MW-9 Date: 12/16/2013 10:25:00 AM Date: 12/18/2013 10:00:00 AM	
Analyses	1312773 007	Result	RL Qual			Batch
EPA MET	HOD 8021B: VOLATILES				Analyst:	NSB
Benzene		1.5	1.0	µg/L	1 12/21/2013 10:30:04 PM I	R15667
Toluene		3.5	1.0	µg/L	1 12/21/2013 10:30:04 PM I	R15667
Ethylben	zene	2.9	1.0	µg/L	1 12/21/2013 10:30:04 PM I	R15667
Xylenes,	Total	12	2.0	µg/L	1 12/21/2013 10:30:04 PM I	R15667
Surr: 4	1-Bromofluorobenzene	106	85-136	%REC	1 12/21/2013 10:30:04 PM I	R15667

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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 Page 7 of 13
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental	Analysis	Laboratory, Inc.
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Date Reported: 12/23/2013

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CLIENT: Animas Environmental Services		0	lient Samp	le ID: MV	V-10	
Project: Enterprise Lateral 6C			Collection	Date: 12/	16/2013 4:21:00 PN	Л
Lab ID: 1312973-008	Matrix:	AQUEOUS	Received	Date: 12/	18/2013 10:00:00 A	M
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analy	/st: NSB
Benzene	950	20	µg/L	20	12/22/2013 12:59:06	PM R15678
Toluene	34	1.0	µg/L	1	12/21/2013 11:00:12	PM R15667
Ethylbenzene	12	1.0	µg/L	1	12/21/2013 11:00:12	PM R15667
Xylenes, Total	39	2.0	µg/L	1	12/21/2013 11:00:12	PM R15667
Surr: 4-Bromofluorobenzene	107	85-136	%REC	1	12/21/2013 11:00:12	PM R15667

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	F	Value above quantitation range

- Value above quantitation range Е
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 8 of 13 Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

Hall Environme	ntal Analysis	Laboratory, Inc.
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Date Reported: 12/23/2013

CLIENT:	Animas Environmental Services	Client Sample ID: MW-11							
Project:	Enterprise Lateral 6C			Collectio	n Date: 12/16/2013 3:51:00 PM				
Lab ID:	1312973-009	Matrix:	AQUEOUS	Receive	d Date: 12/18/2013 10:00:00 AM				
Analyses		Result	RL Qual	Units	DF Date Analyzed Batch				
EPA MET	THOD 8021B: VOLATILES				Analyst: NSB				
Benzene)	2.6	1.0	µg/L	1 12/22/2013 1:29:29 PM R15678				
Toluene		3.5	1.0	µg/L	1 12/22/2013 1:29:29 PM R15678				
Ethylben	izene	ND	1.0	µg/L	1 12/22/2013 1:29:29 PM R15678				
Xylenes,	Total	5.9	2.0	µg/L	1 12/22/2013 1:29:29 PM R15678				
Surr: 4	4-Bromofluorobenzene	99.2	85-136	%REC	1 12/22/2013 1:29:29 PM R15678				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- n range J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 9 of 13
- Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

Date Reported:	12/23/2013
Dute Reported.	14/40/4010

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Project:** Enterprise Lateral 6C

1312973-010

Lab ID:

Client Sample ID: MW-12 Collection Date: 12/16/2013 2:41:00 PM Received Date: 12/18/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	3.3	1.0	µg/L	1	12/22/2013 12:00:25	AM R15667
Toluene	3.8	1.0	µg/L	1	12/22/2013 12:00:25	AM R15667
Ethylbenzene	ND	1.0	µg/L	1	12/22/2013 12:00:25	AM R15667
Xylenes, Total	5.8	2.0	µg/L	1	12/22/2013 12:00:25	AM R15667
Surr: 4-Bromofluorobenzene	97.7	85-136	%REC	1	12/22/2013 12:00:25	AM R15667

Matrix: AQUEOUS

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Б	Value above quantitation range

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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 Page 10 of 13
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Date Reported: 12/23/2013

CLIENT: Project:	Animas Environmental Services Enterprise Lateral 6C			-	le ID: MW-13 Date: 12/16/2013 3:19:00 PM	
Lab ID:	1312973-011	Matrix:	AQUEOUS	Received	Date: 12/18/2013 10:00:00 AM	I
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch
EPA MET	THOD 8021B: VOLATILES				Analysi	: NSB
Benzene	9	4.4	1.0	µg/L	1 12/22/2013 12:30:37 A	M R15667
Toluene		5.1	1.0	µg/L	1 12/22/2013 12:30:37 A	M R15667
Ethylben	izene	1.2	1.0	µg/L	1 12/22/2013 12:30:37 A	M R15667
Xylenes,	Total	7.6	2.0	µg/L	1 12/22/2013 12:30:37 A	M R15667
	4-Bromofluorobenzene	101	85-136	%REC	1 12/22/2013 12:30:37 A	

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	F	Value above quantitation range

- Value above quantitation range E
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Not Detected at the Reporting Limit Page 11 of 13 Sample pH greater than 2 for VOA and TOC only.
- Р
- RL Reporting Detection Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1312973
	23-Dec-13

	Animas Environm Enterprise Lateral		vices							
Sample ID: 5ML RB	Samp	туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBW	Bat	ch ID: R1	5667	F	RunNo: 1	5667				
Prep Date:	Analysis	Date: 12	2/21/2013	5	SeqNo: 4	51694	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0					-			
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluoroben:	zene 20		20.00		100	85	136			
Sample ID: 100NG E	TEX LCS Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSW	Bat	ch ID: R1	5667	F	RunNo: 1	5667				
Prep Date:	Analysis	Date: 12	2/21/2013	S	SeqNo: 4	51695	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	80	120			
Toluene	22	1.0	20.00	0	109	80	120			
Ethylbenzene	21	1.0	20.00	0	106	80	120			
Xylenes, Total	65	2.0	60.00	0	109	80	120			
Surr: 4-Bromofluoroben:	zene 21		20.00		103	85	136			
Sample ID: 1312973	-001AMS Samp	Type: MS	;	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: MW-3	Bat	ch ID: R1	5667	F	RunNo: 1	5667				
Prep Date:	Analysis	Date: 12	2/21/2013	S	SeqNo: 4	51702	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	760	5.0	100.0	570.4	190	73.4	119			SE
Toluene	500	5.0	100.0	338.7	163	80	120			SE
Ethylbenzene	130	5.0	100.0	15.71	117	80	120			
Xylenes, Total	490	10	300.0	133.7	120	80	120			S
Surr: 4-Bromofluoroben:	zene 100		100.0		105	85	136			
Sample ID: 1312973	-001AMSD Samp	Type: MS	SD	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: MW-3	Bat	ch ID: R1	5667	F	RunNo: 1	5667				
Prep Date:	Analysis	Date: 12	2/21/2013	S	SeqNo: 4	51703	Units: µg/L			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	690	5.0	100.0	570.4	123	73.4	119	9.27	20	SE
Toluene	460	5.0	100.0	338.7	118	80	120	9.53	20	
Ethylbenzene	120	5.0	100.0	15.71	106	80	120	8.88	20	
Xylenes, Total	460	10	300.0	133.7	107	80	120	8.20	20	
Surr: 4-Bromofluoroben:	zene 100		100.0		105	85	136	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 12 of 13

, or and roc only.

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1312973
	11 D 11

Client:	Animas E	nvironme	ntal Ser	vices							
Project:	Enterprise	e Lateral 6	C								
Sample ID: 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles											
Client ID: PBW		Batch	n ID: R1	5678	F	RunNo: 1	5678				
Prep Date:		Analysis D	Date: 12	2/22/2013	5	SeqNo: 4	52046	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
Xylenes, Total		ND	2.0								
Surr: 4-Bromofluorobe	enzene	19		20.00		96.0	85	136			
Sample ID: 100NG	BTEX LCS	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSW		Batch	n ID: R1	5678	F	RunNo: 1:	5678				
Prep Date:		Analysis D	Date: 12	2/22/2013	5	SeqNo: 4	52230	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		21	1.0	20.00	0	104	80	120			
Toluene		21	1.0	20.00	0	104	80	120			
Ethylbenzene		20	1.0	20.00	0	102	80	120			
Xylenes, Total		62	2.0	60.00	0	104	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- 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 Log-In Check List

Client Name: Animas Environmental Work Order Numb	er: 1312973		RcptNo: 1
Received by/date: M& 12/18/13			
Logged By: Anne Thorne 12/18/2013 10:00:00	AM	anne Im	-
Completed By: Anne Thorne 12/20/2013		an Im	
Reviewed By: TO 12/20/2013	z	une sum	
Chain of Custody)		·
1. Custody seals intact on sample bottles?	Yes	No 🗌	Not Present
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?	<u>Courier</u>		
<u>Log In</u>			
4. Was an attempt made to cool the samples?	Yes 🗹	. No 🗌	
5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C	Yes 🗹	No 🗌	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌	
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No 🗌	
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗌
10.VOA vials have zero headspace?	Yes 🔽	No 🗍	No VOA Vials
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗔	for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
14, is it clear what analyses were requested?	Yes 🗹	No 🗌	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:

16.\	Nas client notified of all	discrepancies with th	his order?	Yes	No 🗔	NA 🗹
	Person Notified:		Da	8		
	By Whom:		Via	a: 🗌 eMaii	Phone E Fax	In Person
	Regarding:				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	Client Instructions:		·····	······································	- a strait etc. second -	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

stody Record Turn-Around Time:	X Standard C Rush	Project Name:			Analysis Request	(l∋s	,8021 (638 0i 84)Die	Sampler: L. Laynon, L. Laynon, S. 18082 0.4.1) 0.1ce: D/tes D. No.	Temperature (O' C'	Sample Request ID Type and # Type and #	MW-3 3-40mLUBA HCI -2U/X	MW-4 3-40mLVBA HC1 -CC32 X		Her roul	MW-7 3-YOMLOOA HCI TUS X	MW-B 3-40 milion HCI -cule X	MW-9 3-40 merlood HCI CUT X	MW-ID 3-40mLund HCI -008 X	HCI	MW-12 3-40mLbd HCI -OOXX			all all by Might of Date T
ord	Client: Animes Environmental Surgies		Mailing Address: b24 E. Comanche			Pro			Sa	Sample Request ID	MW-3	MW-4	MW-S	MW-lo	MW-7	MW-B	M W - 9	MW-10	M W - 11	MW-12	MW-13		u Waller
hain-of-C	nimes Envloan		Address: 624 E	Farmineton . N/	5	Fax#:	ackage: Jard	tation AP □ Other	(Type)	Time	1236 Water	1312 Weber	1053 Water	1151 Water	1122 Water	1358 Water	1025 Water	1621 Water	1551 Werter	1441 Water	1519 WALL	 1730 Relinguorented by:	Time: Relinquished by: 1756 / Muzthu
Ū	Client:		Mailing /	Farr	Phone #:	email or Fax#:	QA/QC Package: ᡌ Standard	Accreditation	□ EDD (Type)	Date	2/16/13 1236	2/11/0/13	2,116/13 1053	2/11/3/1151	2/16/13 1122	2/14/13 1358	12/11/13	12/16/13	12/11/13/551	12/ 16/13/144/	12/10/13/5/9	 Date:	Date: Zin/13

Appendix C.

TABLE C-1. SUMMARY OF PUMPING TEST PARAMETERS

Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October 2013 Pipeline Release San Juan County, New Mexico

Well ID	Date Tested	Saturated Thickness* (ft)	Average Pumping Rate (gpm)	Total Duration of Test (H:M)
MW-6	12/3/2013	6.54	1.14	1:28
MW-7	12/3/2013	6.54	1.32	1:18
MW-8	12/3/2013	10.19	1.48	1:14
MW-9	12/3/2013	7.52	1.24	1:33

Notes: * - Estimated to +/- one foot from measurements on 12/16/13

TABLE C-2. SUMMARY OF HYDRAULIC CONDUCTIVITY ESTIMATES Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October 2013 Pipeline Release San Juan County, New Mexico

Well ID	Theis (cm/sec)	Average Recovery (cm/sec)
MW-6	2.23E-03	6.88E-03
MW-7	6.96E-03	7.34E-03
MW-8	8.01E-03	1.19E-02
MW-9	3.86E-03	9.09E-03
Average	5.27E-03	8.81E-03

TABLE C-3. SUMMARY OF RECOVERY TEST HYDRAULIC CONDUCTIVITY ESTIMATES Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October 2013 Pipeline Release San Juan County, New Mexico

Well ID	Neuman Method (cm/sec)	Moench Method (cm/sec)	Tartakovsky- Neuman Method (cm/sec)	Average (cm/sec)
MW-6 (RD)	1.14E-02	9.93E-03	1.14E-02	6.88E-03
MW-6 (AG)	2.21E-03	2.38E-03	3.93E-03	0.882-05
MW-7 (RD)	1.84E-02	2.23E-04	7.63E-04	7.34E-03
MW-7 (AG)	5.89E-03	6.15E-03	1.26E-02	7.342-03
MW-8 (RD)	2.10E-02	1.88E-02	3.59E-04	1.19E-02
MW-8 (AG)	1.55E-02	5.48E-03	1.05E-02	1.192-02
MW-9 (RD)	1.20E-02	1.42E-02	2.13E-02	9.09E-03
MW-9 (AG)	2.17E-03	2.11E-03	2.75E-03	9.09E-05
Average	1.11E-02	7.41E-03	7.95E-03	8.81E-03

Notes:

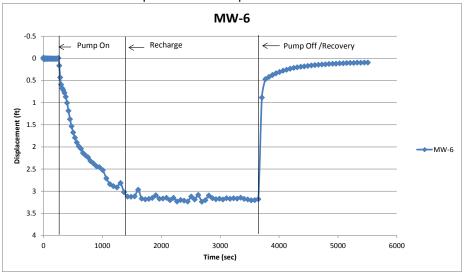
RD - Residual Drawdown

AG - Agarwal Equivalent Time

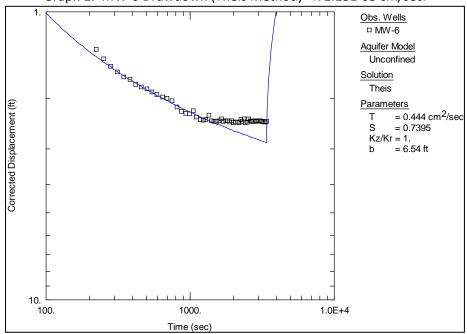
TABLE C-4. SUMMARY OF GROUNDWATER VELOCITY AND PLUME MIGRATION ESTIMATES
Enterprise Field Services, LLC, Trunk 6C (Former Lateral 6C) September 2011 and October
2013 Pipeline Release San Juan County, New Mexico

	Theis	Avg. Recovery
Average K (cm/sec)	5.27E-03	8.81E-03
Average K (ft/day)	14.94	24.97
Velocity (ft/day), n=45%	0.19	0.33
Velocity (ft/day), n=35%	0.25	0.42
Velocity (ft/day), n=25%	0.35	0.60
Plume Migration (ft), n=45%	162	282
Plume Migration (ft), n=35%	213	359
Plume Migration (ft), n=25%	299	512

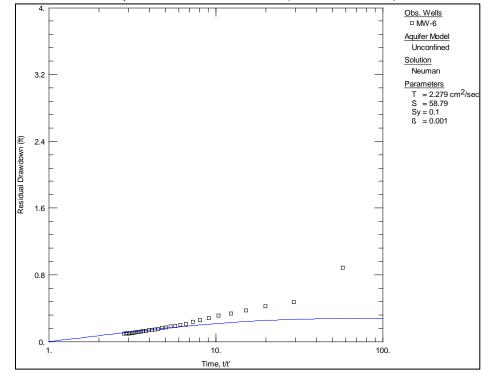
MW-6



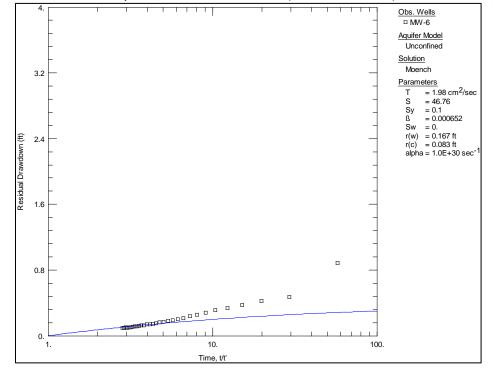
Graph 1. MW-6 Displacement Curve.



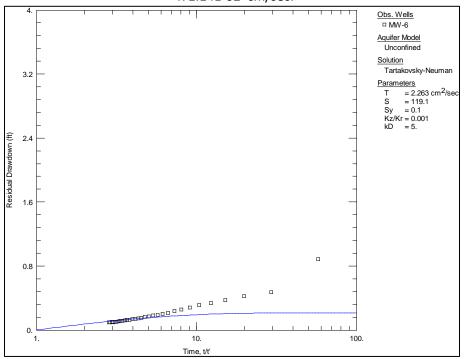
Graph 2. MW-6 Drawdown (Theis Method) –K 2.23E-03 cm/sec.



Graph 3. MW-6 Recovery Test, Residual Drawdown (Neuman Method) –K 1.14E-02 cm/sec.

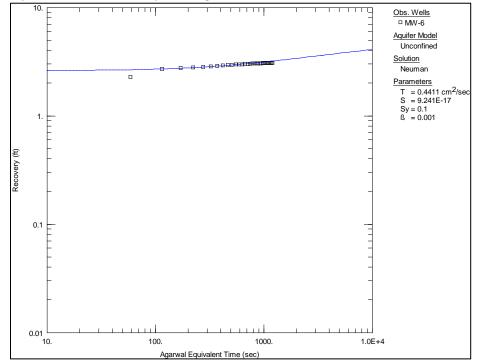


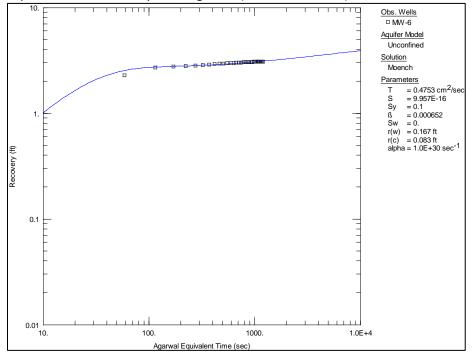
Graph 4. MW-6 Recovery Test, Residual Drawdown (Moench Method) – K 9.93E-03 cm/sec.



Graph 5. MW-6 Recovery Test, Residual Drawdown (Tartakovsky-Neuman Method) -K 1.14E-02 cm/sec.

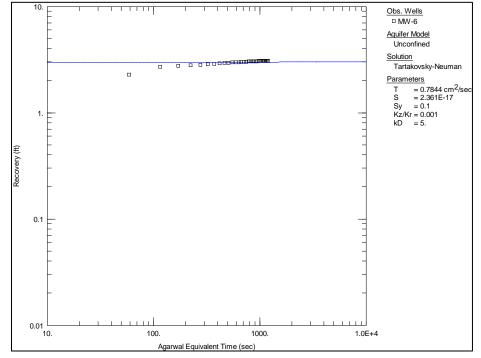
Graph 6. MW-6 Recovery Test, Agarwal (Neuman Method) –K 2.21E-03 cm/sec.



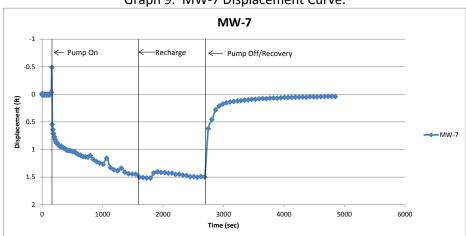


Graph 7. MW-6 Recovery Test, Agarwal (Moench Method) –K 2.38E-03 cm/sec.

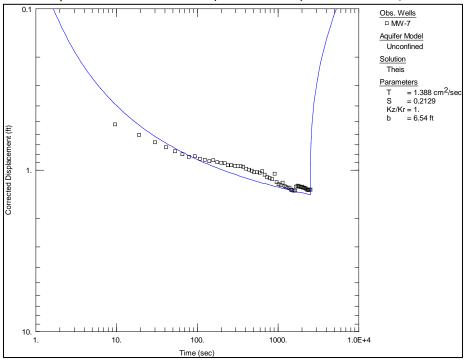




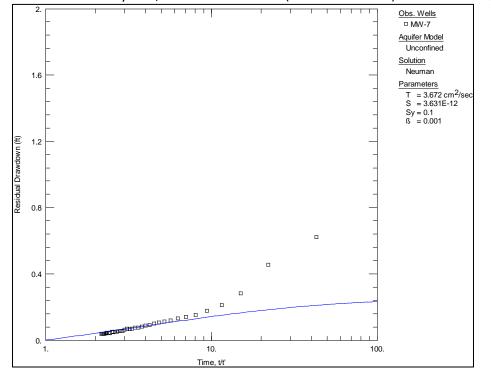
MW-7





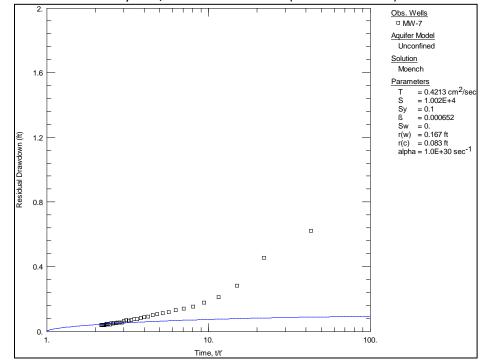


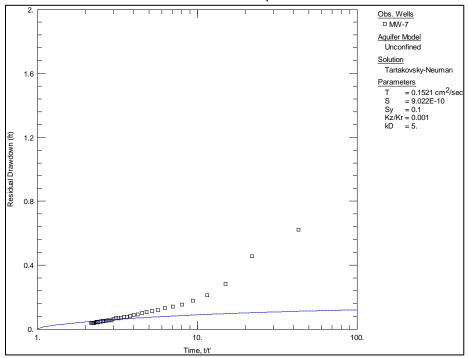
Graph 9. MW-7 Displacement Curve.



Graph 11. MW-7 Recovery Test, Residual Drawdown (Neuman Method) –K 1.84E-02 cm/sec.

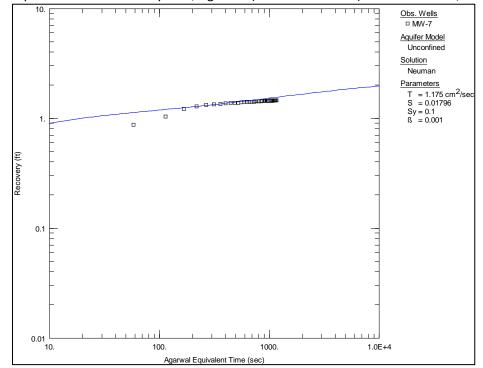
Graph 12. MW-7 Recovery Test, Residual Drawdown (Moench Method) –K 2.23E-03 cm/sec.

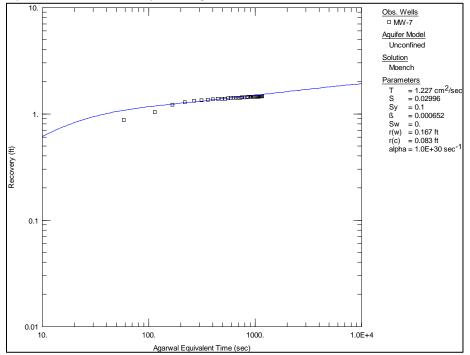




Graph 13. MW-7 Recovery Test, Residual Drawdown (Tartakovsky-Neuman Method) -K 7.63E-04 cm/sec.

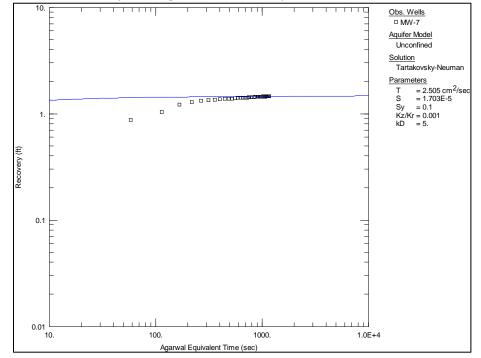
Graph 14. MW-7 Recovery Test, Agarwal (Neuman Method) –K 5.89E-03 cm/sec.





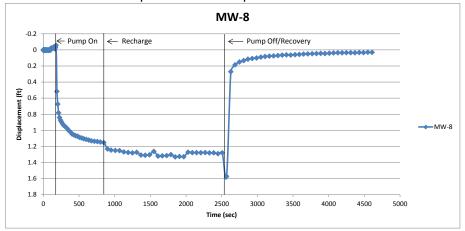
Graph 15. MW-7 Recovery Test, Agarwal (Moench Method) –K 6.15E-03 cm/sec.

Graph 16. MW-7 Recovery Test, Agarwal (Tartakovsky-Neuman Method) –K 1.26E-02 cm/sec.

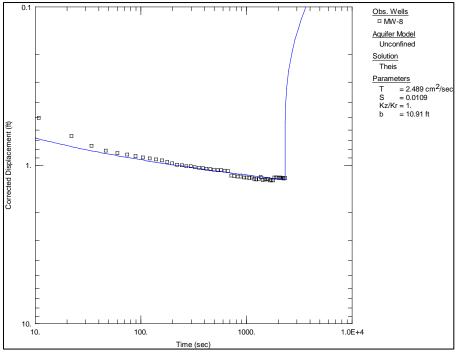


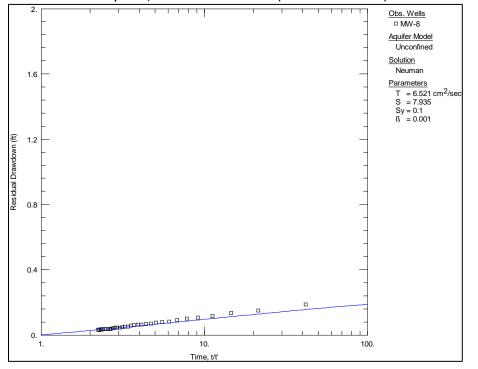
MW-8

Graph 17. MW-8 Displacement Curve.



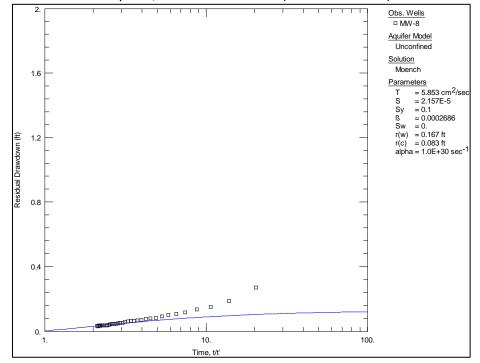


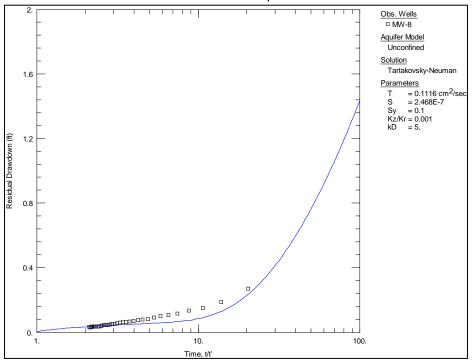




Graph 19. MW-8 Recovery Test, Residual Drawdown (Neuman Method) –K 2.10E-02 cm/sec.

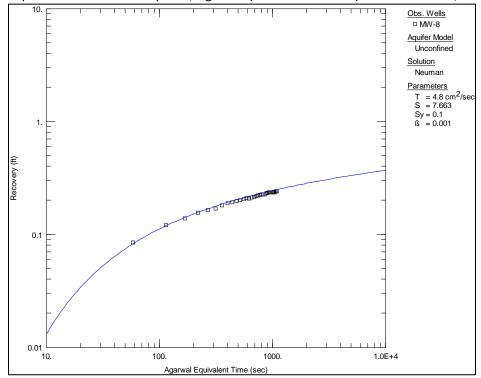


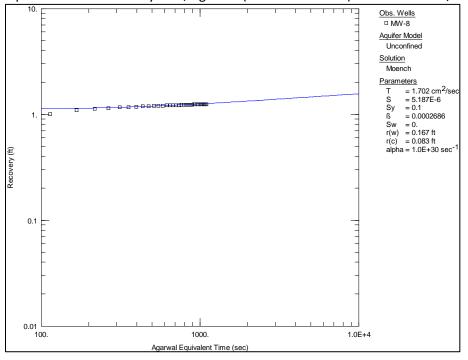




Graph 11. MW-8 Recovery Test, Residual Drawdown (Tartakovsky-Neuman Method) -K 3.59E-04 cm/sec.

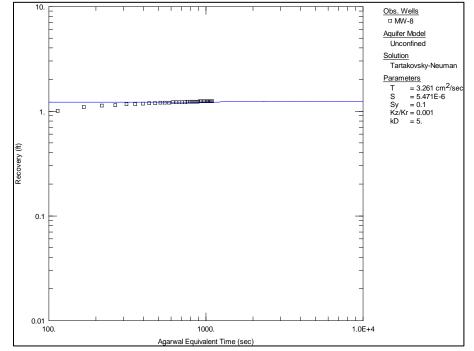
Graph 22. MW-8 Recovery Test, Agarwal (Neuman Method) –K 1.55E-02 cm/sec.



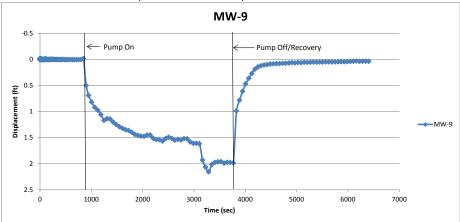


Graph 23. MW-8 Recovery Test, Agarwal (Moench Method) - K 5.48E-03 cm/sec

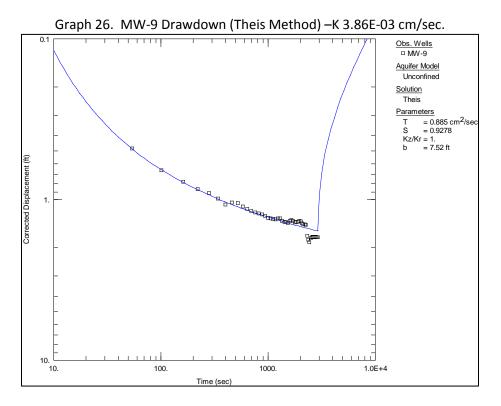




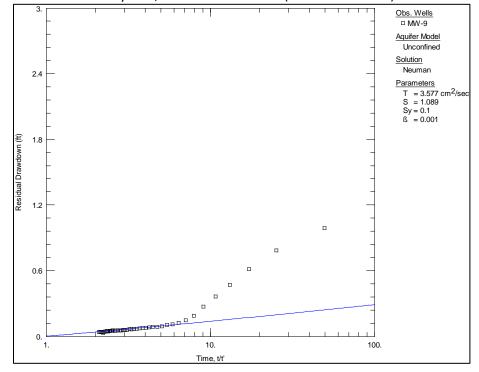
MW-9

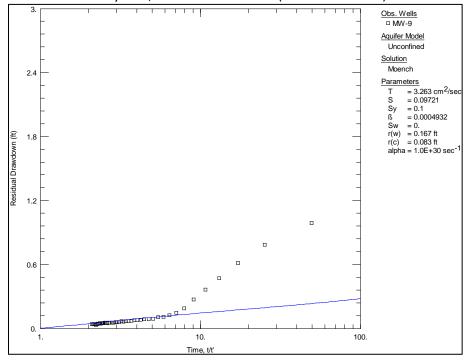


Graph 25. MW-9 Displacement Curve.



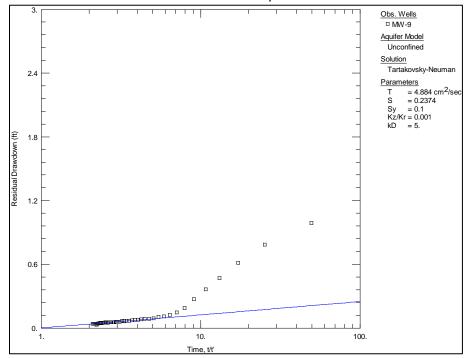
Graph 27. MW-9 Recovery Test, Residual Drawdown (Neuman Method) –K 1.20E-02 cm/sec

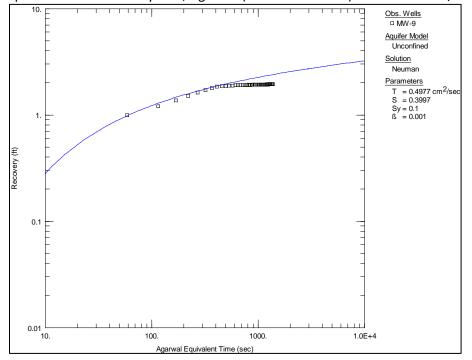




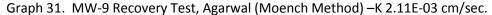
Graph 28. MW-9 Recovery Test, Residual Drawdown (Moench Method) –K 1.42E-02 cm/sec.

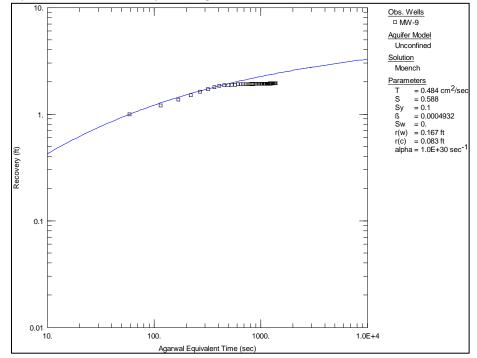
Graph 29. MW-9 Recovery Test, Residual Drawdown (Tartakovsky-Neumen Method) –K 2.13E-02 cm/sec.

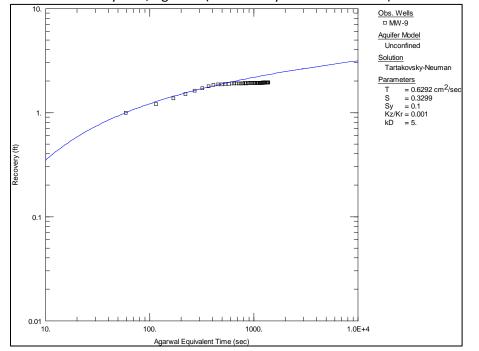




Graph 30. MW-9 Recovery Test, Agarwal (Neuman Method) –K 2.17E-03 cm/sec.







Graph 32. MW-9 Recovery Test, Agarwal (Tartakovsky-Neuman Method) –K 2.75E-03 cm/sec.

References

- Aragon-Jose, A.T., and Robbins, G.A. (2011). Low-flow hydraulic conductivity tests at wells that cross the water table. *Ground Water* 49, no. 3: pp. 426–431.
- Bouwer, H., and Rice, R.C.. (1976). A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells. *Water Resources Research* 12, no. 3: pp. 423–428.
- Butler, J.J. Jr. (1997). The Design, Performance, and Analysis of Slug Tests. New York: Lewis Pub.
- Domenico, P. A., and Schwartz, F. W. (1990). *Physical and Chemical Hydrogeology*. John Wiley & Sons, New York, 824 p.
- Driscoll, F. (1986). Groundwater and Wells (2nd ed.). St. Paul: Johnson Filtration Systems, Inc.
- Fetter, C.W. (2001). *Applied Hydrogeology (4th ed.)*, Prentice-Hall, Upper Saddle River, New Jersey, 598p.
- Kruseman, G.P. and de Ridder N.A. (1990). *Analysis and Evaluation of Pumping Test Data (2nd ed.),* Publication 47, Intern. Inst. for Land Reclamation and Improvement, Wageningen, The Netherlands, 370 p.
- Moench, A. (1997). Flow to a well of finite diameter in a homogeneous, anisotropic water table aquifer. *Water Resources Research, vol. 33, no. 6,* pp. 1397-1407.
- Neuman, S. (1974). Effect of partial penetration on flow in unconfined aquifers considering delayed gravity response,. *Water Resources Research, vol. 10, no. 2*, pp. 303-312.
- Robbins, G.A., Aragon-Jose, A.T., and Romero A. (2009). Determining hydraulic conductivity using pumping data from low-flow sampling. *Ground Water* 47, no. 2: pp. 271–276.
- Tartakovsky, G. D., and Neuman, S. P. (2007). Three-dimensional saturated-unsaturated flow with axial symmetry to a partially penetrating well in a compressible unconfined aquifer. *Water Resources Research, vol. 43, W01410, doi:1029/2006WR005153*.
- Theis, C.V. (1935). The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, *Am. Geophys. Union Trans., vol. 16*, pp. 519-524.
- Van Rooy, D. (1988). A note on the computerize interpretation of slug test data. Progress Report 66. Institute of Hydrodynamics and Hydraulic. Engineering, Technical University of Denmark.

Appendix D.

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White - Company Records, Yellow - Billing, Pink - Customer

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	i											
	SULIS. 287 CHLORIDE TEST	M	LANDFARM EMPLOYEE:	mula	Inder	EL	<u> </u>	NOTES:				
	PAINT FILTER TEST	М	Certifica	Certification of above rec	receival & placement	ement					202	
By signin mentione TRANSPO	By signing as the driver/transporter, I certify the material hauled from the mentioned Generator/Point of Origin and that no additional material has t TRANSPORTER CO POUR FILL そっからケー NAME	rter, I c rigin ar	ertify the material h nd that no additiona	auled from the ab al material has bee NAMF	been added or mixed into the load	n has not b mixed into	een add the load	above location has not been added to or tampered with. I certify the material peen added or mixed into the load.	with. I ce	tify the r	material is from the above	٦٥
COMPANY	COMPANY CONTACT CON'S For 12	Tat.	~	1	21	4922			-10-	m	ph	r
Signature	Signatures required prior to distribution of the legal document.	ribution	of the legal docum	tent.		i						r

White - Company Records, Yellow - Billing, Pink - Customer

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U	3 envirotech	ch	8	Bill of Lading	adin		MANIFEST #	45441	41		1
NOHA	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	U.S. HIGHWAY 64	• FARMINGTON,	, NEW ME>	KICO 8740	<u>ר</u>	DATE [2-]	2-1	<u>8-1</u> 3 JOB # _	ap20-72079 #	I
LOAD	Ō	COMPLETE DESCRIPTION OF SHIPM	ION OF SHIPMENT	L			TRANSPORTING COMPANY	DRTING (COMPAN	74	
0 Z	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	1
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RESULTS	S: CHLORIDE TEST	LANDFARM EMPLOYEE:	Carr Ru	b inse	JJ EC		NOTES:				
	PAINT FILTER TEST	Certific	Certification of above receival & placement	eival & plac	ement					RD	
By signin mentione	By signing as the driver/transporter, I certify the material hauled from the above location has not been adde mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.	certify the material h and that no additions	nauled from the ab	ove location	n has not t mixed into	the load	ed to or tampered v	with. I cer	rtify the r	above location has not been added to or tampered with. I certify the material is from the above been added or mixed into the load.] @
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COMPAN' Signature	COMPANY CONTACT () () () () () () () () () (t2 on of the legal docum	PHONE	525-4	1264		DATE 2 -	Ś	\sim		1
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U	3 envirotech	he	ch		Bill of Lading	adir		MANIFEST #	45442	42		
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	5796 U	.S. HIGHWAY 64	• FARMINGTON	NFW MFX		<u>מ</u>	DATE <u>/</u> 2 –	18-13	S JOB#	# 97257-6590	0
LOAD		COM	COMPLETE DESCRIPTION OF SHIPMENT	ION OF SHIPMEN	L7			TRANSPORTING COMPANY	IRTING C	OMPAN	<u>۲</u>	
Ů N	POINT OF ORIGIN	NIC	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	Τ
	Enterprise Latec	0/	LFI	LON T	K-27	ũ	1	West States	512	1101	He group	4
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RESULTS:	S:		LANDFARM	6		4		NOTES.				
5 287		3	EMPLOYEE:	(mu Pa	ling	- Lil						
	PAINT FILTER TEST	3	Certific	Certification of above rec	receival & placement	ement					Day	
By signin mentione	By signing as the driver/transporter, I certify the material hauled from the above location has not been adde mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load	orter, I c Drigin ar	ertify the material l nd that no additiona	nauled from the at al material has bee	ove locatior en added or	has not mixed into	been add o the loac	ed to or tampered v	vith. I cer	tify the n	By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.] e
TRANSPC	TRANSPORTER CO. U. P. F.	1 V	741705	NAME F	FRANK	C Ocher	hert	SIGNATURE	The	duri	e a labor	
COMPAN	COMPANY CONTACT			PHONE)			DATE /2	2	MI.		
Signature	Signatures required prior to distribution of the legal document.	tribution	of the legal docun	1					2	l -		1

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	3 envirotech	ch	Bi	Bill of Lading	adir	D	MANIFEST # _	45443	43		
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	J.S. HIGHWAY 64	• FARMINGTON,	NEW MEX	(ICO 874(5	рате <i>(2 ~ 1</i>	8-13	JOB	813 JOB# 97057-0590	
LOAD	COM	PLETE DESCRIP1	COMPLETE DESCRIPTION OF SHIPMENT	L,			TRANSPORTING COMPANY	ORTING C	COMPAN	2	
o Z	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
~	E.tech.	ENterprise	Erprisa C/ 492	(12	1	west	515	1101	Hun A Lot	
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3	a a a a a a a a a a a a a a a a a a a	ž	<i>u Q</i>	1	21	١	ù Y	SIS	1500	Trank cult	1
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		EMPLOYEE:	Goug L	olin	nord	<u>I</u>					
	PAINT FILTER TEST	Certific		receival & placement	ement					60	
By signin mentione	By signing as the driver/transporter, I certify the material hauled from the above location has not been adde mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.	certify the material nd that no addition	hauled from the ab al material has bee	ove location in added or	n has not t mixed into	been add	ed to or tampered v	vith. I cer	tify the r	e above location has not been added to or tampered with. I certify the material is from the above been added or mixed into the load.	_
TRANSPC	TRANSPORTER CO. West States	ates	NAME PP	NAME FRANK COLLANT	C.O.L.	They	SIGNATURE	of re	5	entitle	
COMPAN	COMPANY CONTACT		PHONE				DATE 1218	2.0	~)	
Signature	Signatures required prior to distribution of the legal document.	n of the legal docur	nent.								

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U	2 envirotech	t e	ch h	ä	ill of Ladino	nipe	ç	MANIFEST #	45466	99	
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	796 U.	S. HIGHWAY 64	FARMINGTON	I, NEW ME>	KICO 8740		DATE / 3-30	-13	JOB #	# 97257-0590
LOAD		COMF	COMPLETE DESCRIPTION OF SHIPMENT	ON OF SHIPMEI	TN			TRANSPORTING COMPANY	DRTING (COMPAN	۲۷
Ő	POINT OF ORIGIN	z	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
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2	6	4		4	5-27	011	}	u u	835	8.8	ania Sund
3	¥	3	17	4	5-27	01		11	934	65:8	Ken Bull
5	4	×	4	4	N-251	01	(u u	935	10:00	0,27
5	d	X	4	6	1-25	NO	1	x N	835	10:05	Am Bar My
9	ci	×	4 17	4	2-25	011		4	934	01:01	AN TAL
5	2	2	2 2	R	22-2	01		*	935	11:15	O' LL
δ	R	4	10 11	6 [1	12-2	01	ļ	c1 4	8:35	11:15	Care Saulla
6	¥	4	2	9 6	۲-27	10	1	0 1	9:34	02:11	ten Dall
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//	31	1	717 71	11	1-27	01		10 11	835	1120	Can Shendly
12	ħ	17	77 /T	17 ((6-27	10	1	4 4		73~12:45	Key Bilt
RESULTS:	ÿ		LANDFARM			and	5	NOTES:			
2825	CHLORIDE TEST	M	EMPLOYEE:	She	N.						
	PAINT FILTER TEST	3	Certific	Certification of above re	receival & placement	cement					P.D.C.
By signin mentione	By signing as the driver/transporter, I certify the material hauled from the mentioned Generator/Point of Origin and that no additional material has I	rter, l c rigin al	certify the material I nd that no additions		 above location has not been adde been added or mixed into the load. 	on has not r mixed int	been add o the load	above location has not been added to or tampered with. I certify the material been added or mixed into the load.	with. I ce	ertify the	material is from the above
TRANSPC	TRANSPORTER COLOUS FONTZ CUNSA	12	Curst		in Ruch	Ruchquer		SIGNATURE	Q	(et)	
COMPAN	COMPANY CONTACT LONDA	the	4	PHONE SO S-		3254922	2	DATE 12	1-06-	3	
Signature	1.1	ributior	n of the legal docun								

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J	3 envirotech	ch	ä	ill of Ladino	adin	D	MANIFEST #	45467	2	
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	J.S. HIGHWAY 64	• FARMINGTON,	NEW MEX	(ICO 8740	ב מ	DATE 12-20-	-/3	JOB #	17057-0590
LOAD	CON	COMPLETE DESCRIPTION OF SHIPMENT	ON OF SHIPMEN	Ŀ			TRANSPC	TRANSPORTING COMPANY	MPAN	
Ö	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK# 1	TIME	DRIVER SIGNATURE
Ч	E-fect	Lat 61	clear Fill	١	01		Doug Fourte	9358	8:50	Qull
હ	t-fech	U U	u u	(<i>e)</i>	(77 A	8350	05:2	Gen Burk.
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to	<i>n n</i>	a (l	4)	10	۱	2	835 11	15	Faurbandh
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//	11 11	2	0 1		01	1	e a	835 11	ofil	Jacob quello
<i>4</i>	h n	an n	y q	1	10		r d	934 12	12:45	Han Bref
RESULTS:	ÿ	LANDFARM	6	A	13 ac		NOTES:			
		EMPLOYEE:	Xan	X						
	PAINT FILTER TEST	Certific	Certification of above receival & placement	seival & plac	sement					G
By signin mentione	By signing as the driver/transporter, I certify the material hauled from the above location has not been adde mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.	certify the material and that no addition	hauled from the al al material has be	bove locatio en added or	n has not l	been adc o the load	led to or tampered	with. I certi	fy the n	above location has not been added to or tampered with. I certify the material is from the above een added or mixed into the load.
TRANSPC	TRANSPORTER CO. DW CALL	Currt	NAME	m Cade	rigun		SIGNATURE	0710	_	
COMPAN	COMPANY CONTACT (Coly B	and	PHONES	-Sez - 20	- 492.2	٢	DATE 12-	1. 0-C-	\sim	
Signature	orior to distr	on of the legal docur	White - Comr	anv Becords Vallow - Billing Pink - Custome	w Rilling Pink	Customer				22.1

U	3 envirotech	ch	m	ill of Lading	adin	D	MANIFEST #	45468	68	
PHONE	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	J.S. HIGHWAY 64	• FARMINGTON	I, NEW ME)	XICO 8740	0 5	DATE <u>22.20-13</u>	2	JOB #	# 97057-059D
LOAD	COM	COMPLETE DESCRIPTION OF SHIPMENT	TION OF SHIPME	NT			TRANSPORTING COMPANY	RTING C	COMPAN	74
Ö N	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	ΥDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
4	ENAL PEUC	2-II-2	Cont Soit	(E-W	3	1	W155+ States	515	8.8	June of the
d	n	k d	•	12-W	3	1	<i>u a</i>	515	10.10	ature & all
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4	n v	14 (1	5	72-M	- 2)	N N	515	1136	ornal alth
h	8	8	4 (1	5-10	12	1	z u	515	13:30	The for the
9	7 0	a a	er 19	M-27	ル	١	8	515	14:40	Other Do The
5	<i>ת</i>	0 4	5	m-27	61	1	2	515	15:20	Ĥ
					84					
RESULTS:	ŝ	LANDFARM			L L	2	NOTES:			
<287		EMPLOYEE:		mal						
	PAINT FILTER TEST	Certifi	Certification of above receival & placement	sceival & pla	cement					PDC
By signin mentione	By signing as the driver/transporter, I certify the material hauled from the above location has not been adde mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.	certify the material and that no additior	hauled from the a	above locatic een added o	on has not ir mixed int	been adc o the load	led to or tampered 1.	with. I ce	rtify the	above location has not been added to or tampered with. I certify the material is from the above leen added or mixed into the load.
TRANSPC	TRANSPORTER CO. JAP ST ST REAM	then 5		NAME ZAANK, "	770=	M.	SIGNATURE	april	And	HARD -
COMPAN	COMPANY CONTACT	5	PHONE				DATE			
Signature	Signatures required prior to distribution of the legal document.	on of the legal docu	iment.		dai0 callig	, Customore				

U	3 envirotech	ch	<u> </u>	Bill of Lading	adin	D	MANIFEST #	4547	72		1
NOHA	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	I.S. HIGHWAY 64	• FARMINGTON,	NEW MEX	(ICO 8740		DATE <u>/2-20</u>	.13	JOB	JOB # 77257- 8591	0
LOAD		COMPLETE DESCRIPTION OF SHIPMENT	ION OF SHIPMEN	١T			TRANSPORTING COMPANY	RTING C	COMPAN	NY	
Ö	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
Ч	E-tech	ENTER PRISC	Clenn	١	al	١	Dous Forthe	935	13:30	MMM)	
8	8	7 1	8	۱	01		4 11	8:35	13:30	Parkelle	
3	11	6	4		01	١	11 77		13:50	Ken Prila	
2	4	<i>a b</i>	4 4		10		K (D	935	14:46	OLD.	
\mathcal{N}	4	4 4	3 4		10	١	5	835	017:17	a front	
9	5	X	12 CC)	Q	١	4 4	934	1454	Ron Park	×
					191						
					5						
RESULTS	'S:	LANDFARM) C		J (7	NOTES:				
		EMPLOYEE:	Lake	- Jo-							
	PAINT FILTER TEST	Certifi	Certification of above receival & placement	ceival & plac	cement					GD	
By signir mentione	By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.	certify the material and that no addition	hauled from the a	bove locatic en addeq or	n has not r r mixed into	been ad o the loa	ded to or tampered v d.	· _ ·	rtify the	certify the material is from the above	ove
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COMPAN	COMPANY CONTACT Landy Rutz	172 In of the level docu	NOHA	-202322-	A922		DATE 12-9	30.	2		
oldialun	es required prive to unsumption	in or me regai aora									

J	3 envirotech	ch	ä	till of Lading	adin	D	MANIFEST #	45473	23	
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	U.S. HIGHWAY 64	• FARMINGTON	, NEW MEX	(ICO 8740	<u>-</u> د	DATE <u>/2-20 - /</u>	13		# 97057-659C
LOAD	COV	COMPLETE DESCRIPTION OF SHIPMENT	ION OF SHIPME	LT L			TRANSPORTING COMPANY	DRTING C	OMPAN	K
Ö	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
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3		46 4	2	M-2)	10	۱	0 0	83	13:30	and much mully
M	N N	5	a 0	M-27	01	1	a a	934	3.50	Hen Ball
7	7	5	5	M-27	10		(c 4	935	Chi the	Den Lod
\mathcal{S}	7	4 CL	0	4-27	Q	1	47 10	J:3	14.66	But feull
9	11 11	11 11	n n	12-W	10	l	ц ()	5341	463	Kar Do M
5	K a	6	4 4	12-12	0	l	u a	934	15:55	the maint
8	2	2	20	M-27	QI	l	a a	935 1	15:53	Miller
				1	0%					
RESULTS:	ŝ	LANDFARM			13 El	۲,	NOTES:			
5287		EMPLOYEE:	- Aller	N 1						(
	PAINT FILTER TEST 2	Certifi	Certification of above re	receival & placement	cement					1200
By signir mentione	By signing as the driver/transporter, I certify the material hauled from the mentioned Generator/Point of Origin and that no additional material has I	certify the material and that no addition		above location has not been adde	n has not r mixed int	been add o the loa	ded to or tampered	with. I cer	tify the	above location has not been added to or tampered with. I certify the material is from the above been added or mixed into the load.
TRANSP(TRANSPORTER CO. CUMP TOWT	Cons -	NAME	Im (Lad	25	2.2	SIGNATURE	して		
COMPAN	-	ane	PHONE	See sos	やすら	d	DATE 13	.08.El	2	
Signatur	rior to distribut	ion of the legal docu		White . Commany Boonde Vollow . Billing Dick . Customer	4 - Rillino Pink	Cistomer			`	ean kean torroduction 578.

U	3 envirotech	ch		Bill of Ladind	adin	D	MANIFEST #	45483	83		
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	.S. HIGHWAY 64	• FARMINGTON	NEW ME	<ico 8740<="" td=""><td><u>,</u></td><td>DATE <u>12-23-</u></td><td>2</td><td>JOB #</td><td># 97257-0590</td><td></td></ico>	<u>,</u>	DATE <u>12-23-</u>	2	JOB #	# 97257-0590	
LOAD	COM	COMPLETE DESCRIPTION OF SHIPMENT	ION OF SHIPMEN	L7			TRANSPORTING COMPANY	RTING C	OMPAN	7	
Ö	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
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4	et a	8	4	١	12	۱	n n	515	13:20		-
N/	1	N	6)	61)	4	5/5 2:27	7212	1	1.
Ŋ	a a	K U	n n	١	12	\	н а	515	15:35	A Conte	Δ.
					12						
RESULTS	S:	LANDFARM	5		51		NOTES:				
		EMPLOYEE:	2 dres								
	PAINT FILTER TEST	Certific	Certification of above rec	receival & placement	cement					EP.	
By signir mentione	By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.	certify the material nd that no addition	hauled from the al al material has be	bove locatio en added or	in has not l mixed into	oeen ado the load	led to or tampered v	vith. I cer	tify the	material is from the above	
TRANSPC	TRANSPORTER CO. ALL ST 578 F	Fer 5	NAME	CRANK "	~ 770->	a-T'Ye	SIGNATURE	(the	2	Contraction of the second seco	
COMPAN	COMPANY CONTACT		PHONE				DATE 12-23-13	3-13			
Signature	Signatures required prior to distribution of the legal document.	n of the legal docu	ment.								

ellow - billing, Pink - Customer

U	d envirotech	ch	00	ill of Lading	adin	D	MANIFEST #	45484	34	
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	S. HIGHWAY 64	FARMINGTON	NEW ME	(ICO 8740	2	DATE 12-2	23-13	JOB #	# 97857-D5
LOAD	COMF	PLETE DESCRIPT	COMPLETE DESCRIPTION OF SHIPMENT	5			TRANSPC	TRANSPORTING COMPANY	OMPAN	Z
0 Z	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
4		5 abertalso CA-La(Clear Fill)	01		24nad	935 8	8:40	Mu Cert,
R	4	n	5 0		01	(11 11	1 935 1	00:11	Merley
3	4	b J	C)	1	01	١	11 11	1 250"	12:20	Cull ,
Z	7	17 17	a a)	01	(4	2357	13:25	Mulande
δ	ere ere	15 1	A K)	01	١	1 1	935 19	25.W	Duld
9	17	77 11	<i>b</i>	۱	10	1	4 11	9351	15:40	Mundale
				•	97					
RESULTS:	TS:	LANDFARM			-13		NOTES:			
		EMPLOYEE:	2 Mar	N						
	PAINT FILTER TEST	Certific	Certification of above rec	receival & placement	ement					2
By signii mentione	By signing as the driver/transporter, I certify the material hauled from the mentioned Generator/Point of Origin and that no additional material has t	certify the material nd that no addition		above location has not been adde been added or mixed into the load.	n has not mixed into	been ado o the load	led to or tampered	with. I certi	ify the n	above location has not been added to or tampered with. I certify the material is from the above been added or mixed into the load.
TRANSP (TRANSPORTER CO. DUG FULLE Con St	Const	NAME	in Rud .	ri Suez	2	SIGNATURE	17	Lall	
COMPAN	COMPANY CONTACT (Condu Printz	42	PHONE S	505.325. 492	5-442	2	DATE 12	12.23-1	~	
Signatur	Signatures required prior to distribution of the legal document.	n of the legal docu								
			White Comon	w Becorde Vallow Billing Din		Cuetomor				

U	3 envirotech	ch	ï	Bill of Lading	adin	0	MANIFEST #	45485	85		
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	U.S. HIGHWAY 64	• FARMINGTON	. NEW MEX	(ICO 8740	_ ת	DATE <u>12-23-13</u>	51-	JOB #	97057- (5570
LOAD	CON	COMPLETE DESCRIPTION OF SHIPMENT	ION OF SHIPME	Ŀ			TRANSPORTING COMPANY	RTING C	OMPAN	7	
0 N		DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	URE
2	CAL 6 C	S- II+)	212 Soil	N-27	10	1	Dous	935	00:11	Amla	
み	19 20	2	5	2-27	10	1	11 11	935	12:20	O. C.J.	
m	0	0	5	1-27	0	1	4	935	3.25	M wall	
4	и и	4	17 11	N-27	10)	4		14:35	O willed	
					40						
RESULTS:	S:	LANDFARM			EL		NOTES:				
299	CHLORIDE TEST	EMPLOYEE:	Leve,	X							
	PAINT FILTER TEST	Certifi	Certification of above receival & placement	ceival & plac	ement					Ta	EDC
By signir mentione	By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.	certify the material and that no addition	hauled from the a al material has be	bove location en added or	n has not t mixed into	the load	ed to or tampered v I.	with. I cer	tify the	material is from the	e above
TRANSP(TRANSPORTER CO. DUG FOUL	e Const	NAME	V maller	adiquez	2	SIGNATURE	3	Lek		Í
COMPAN	COMPANY CONTACT LONDING	Tovra	NOHd	espr-325 ugas	4920		DATE 2-3-13	-33-1	3		
Signatur	Signatures required prior to distribution of the legal document.	on or the legal docu	ment.								

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	3 envirotech	ě	ch		Bill of Lading	adin	C	MANIFEST #	45486	86		
NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	96 U.	S. HIGHWAY 64	FARMINGTON	, NEW MEX	<pre>(ICO 8740)</pre>	0 -	DATE 12-23~	13	JOB #	# 97057-059D	1
LOAD		COMF	COMPLETE DESCRIPTION OF SHIPMENT	ION OF SHIPME	NT			TRANSPORTING COMPANY	RTING C	OMPAN	74	
ÖZ	POINT OF ORIGIN	-	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
2	ENALPHISC CALPUSC		5-777	cont Soic	(E-W	12	1	west States	515	11:20	Anew Call	
2	\$	8	4	•	C.C. W	12		4 0	1	141210	Haran Cal	21
\bigotimes	×	8	4	0	1-27	12	۱	2	515	2251	15	ka
4	*	2	10 11	4	N-27	12		a a	515	122		XI
\mathcal{N}	4	Ø	4 4	4 M	N-27	12	1	11 11	515	15:3	THOD CUT	61
					►	10						4
				(
RESULTS	TS:		LANDFARM	2				NOTES:				
< 299	CHLORIDE TEST	α	EMPLOYEE:	Sher	N						1	
	PAINT FILTER TEST	3	Certific	Certification of above re-	receival & placement	ement					PUC	
By signin mentione	By signing as the driver/transporter, I certify the material hauled from the mentioned Generator/Point of Origin and that no additional material has b	er, I c gin ar	sertify the material nd that no addition		e above location has not been adde been added or mixed into the load	in has not f mixed into	been add o the loa	above location has not been added to or tampered with. I certify the material peen added or mixed into the load.	with. I ce	rtify the	material is from the above	
TRANSPC	TRANSPORTER CO. JUNE 4	1414	1-4	NAME JARAN	RANK	C044	A T	SIGNATURE	540	A	- A W	I
COMPAN	COMPANY CONTACT		-	PHONE				DATE / Z	2-7-5	3 - / - 5	M	1
Signature	Signatures required prior to distribution of the legal document.	bution	n of the legal docur	nent.								

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Appendix E.

Photo #1	
Client: Enterprise Field Services, LLC	
Project: Lateral 6C Pipeline Release	
Taken by: Heather Woods	
Date: November 1, 2013	
AES Project No. 110904	Description: View of initial excavation area looking southeast.

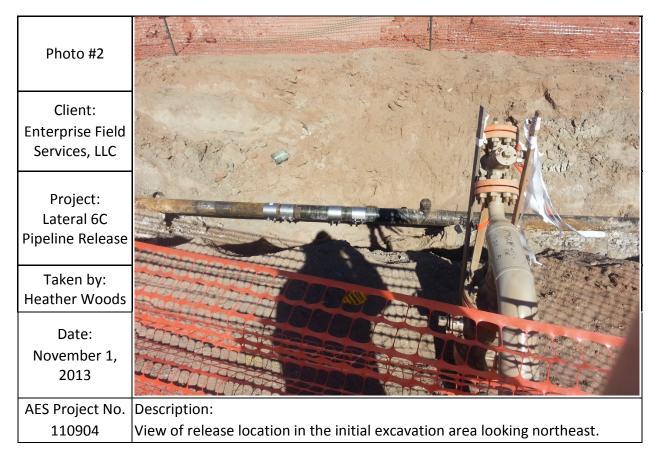


Photo #3	
Client:	the second se
Enterprise Field	
Services, LLC	
Project: Lateral 6C Pipeline Release	
Taken by:	
Heather Woods	
Date: December 17,	
2013	
AES Project No.	Description:
110904	View of final excavation looking east.

Photo #4	
Client: Enterprise Field Services, LLC	
Project: Lateral 6C Pipeline Excavation	
Taken by: Heather Woods	
Date: December 17, 2013	
AES Project No.	Description:
140108	View of shallow excavation of misted area looking east.

Photo #5	
Client: Enterprise Field Services, LLC	
Project: Lateral 6C Pipeline Release	
Taken by: Heather Woods	
Date: December 17, 2013	
AES Project No.	Description:
110904	View of final excavation looking southeast.

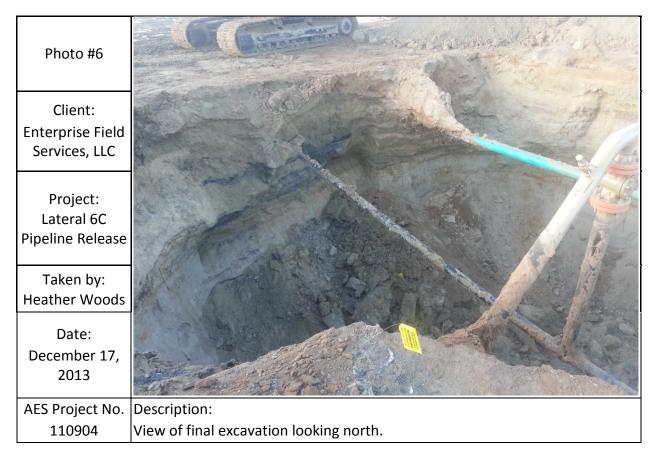


Photo #7	
Client: Enterprise Field Services, LLC	
Project: Lateral 6C Pipeline Release	
Taken by: Heather Woods	
Date: December 17, 2013	
AES Project No.	Description:
110904	View of final excavation looking northwest.

Appendix F.



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

December 24, 2013

Heather Woods Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 716-2787 FAX

OrderNo.: 1312A07

RE: Enterprise Trunk 6C

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/18/2013 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Date Reported: 12/24/2013 **Client Sample ID:** S-2 Collection Date: 12/17/2013 1:54:00 PM

Project:	Enterprise Trunk 6C				Collection	Date: 12/	17/2013 1:54:00 PM	[
Lab ID:	1312A07-001	Matrix: S	SOIL		Received	Date: 12/	18/2013 10:00:00 A	М
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 8015D: DIESEL RAN	GE ORGANICS					Analy	st: JME
Diesel R	ange Organics (DRO)	320	9.9		mg/Kg	1	12/24/2013 6:39:13 A	M 10939
Surr: I	DNOP	100	66-131		%REC	1	12/24/2013 6:39:13 A	M 10939
EPA MET	THOD 8015D: GASOLINE R	ANGE					Analy	st: NSB
Gasoline	e Range Organics (GRO)	15000	250		mg/Kg	50	12/21/2013 6:58:51 P	M 10919
Surr: I	BFB	321	74.5-129	S	%REC	50	12/21/2013 6:58:51 P	M 10919
EPA MET	THOD 8021B: VOLATILES						Analy	st: NSB
Benzene	9	66	2.5		mg/Kg	50	12/21/2013 6:58:51 P	M 10919
Toluene		710	9.9		mg/Kg	200	12/22/2013 10:51:52	AM 10919
Ethylben	izene	54	2.5		mg/Kg	50	12/21/2013 6:58:51 P	M 10919
Xylenes,	Total	500	4.9		mg/Kg	50	12/21/2013 6:58:51 P	M 10919
Surr: 4	4-Bromofluorobenzene	115	80-120		%REC	50	12/21/2013 6:58:51 P	M 10919

DC 4 . . . 1. 000 1 1.1 . . 1. 11.4.6 CT. 100.1. 1 ation inf tion.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservat	10n informatio
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	-	TT 1 1

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit Page 1 of 13
- Р Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit RL

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2013

CLIENT:Animas Environmental ServicProject:Enterprise Trunk 6CLab ID:1312A07-002	es Matrix:	SOIL	C		Date: 12/	17/2013 1:55:00 PM 18/2013 10:00:00 AN	
Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analys	st: JME
Diesel Range Organics (DRO)	100	10		mg/Kg	1	12/24/2013 7:00:56 A	N 10939
Surr: DNOP	119	66-131		%REC	1	12/24/2013 7:00:56 A	M 10939
EPA METHOD 8015D: GASOLINE RAN	GE					Analys	st: NSB
Gasoline Range Organics (GRO)	6200	93		mg/Kg	20	12/21/2013 7:56:17 PI	VI 10919
Surr: BFB	403	74.5-129	S	%REC	20	12/21/2013 7:56:17 P	M 10919
EPA METHOD 8021B: VOLATILES						Analys	st: NSB
Benzene	21	0.93		mg/Kg	20	12/21/2013 7:56:17 PI	N 10919
Toluene	270	4.6		mg/Kg	100	12/22/2013 11:20:35 A	M 10919
Ethylbenzene	25	0.93		mg/Kg	20	12/21/2013 7:56:17 PM	VI 10919
Xylenes, Total	270	9.3		mg/Kg	100	12/22/2013 11:20:35 A	M 10919
Surr: 4-Bromofluorobenzene	119	80-120		%REC	20	12/21/2013 7:56:17 PI	M 10919

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	т	Analysia datastad halow quantitation limits

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 2 of 13 Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2013

CLIENT: Animas Environmental ServiceProject: Enterprise Trunk 6CLab ID: 1312A07-003	s Client Sample ID: S-4 Collection Date: 12/17/2013 1:57:00 PM Matrix: SOIL Received Date: 12/18/2013 10:00:00 AM						1
Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	69	10		mg/Kg	1	12/24/2013 7:22:48 AN	1 10939
Surr: DNOP	106	66-131		%REC	1	12/24/2013 7:22:48 AM	1 10939
EPA METHOD 8015D: GASOLINE RAN	GE					Analys	t: NSB
Gasoline Range Organics (GRO)	1000	98		mg/Kg	20	12/21/2013 8:53:37 PM	1 10919
Surr: BFB	173	74.5-129	S	%REC	20	12/21/2013 8:53:37 PM	1 10919
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.49		mg/Kg	20	12/21/2013 8:53:37 PM	1 10919
Toluene	21	0.98		mg/Kg	20	12/21/2013 8:53:37 PM	1 10919
Ethylbenzene	6.0	0.98		mg/Kg	20	12/21/2013 8:53:37 PM	1 10919
Xylenes, Total	59	2.0		mg/Kg	20	12/21/2013 8:53:37 PM	1 10919
Surr: 4-Bromofluorobenzene	97.1	80-120		%REC	20	12/21/2013 8:53:37 PM	1 10919

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected

- E Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- d in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 3 of 13 Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2013

CLIENT: Animas Environmental Service	es		Client Sampl	e ID: S-9)		
Project: Enterprise Trunk 6C			Collection I	Date: 12	/17/2013 2:05:00 PM		
Lab ID: 1312A07-004	Matrix:	Matrix: SOIL Receive		d Date: 12/18/2013 10:00:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	JME	
Diesel Range Organics (DRO)	49	10	mg/Kg	1	12/24/2013 7:44:29 AM	10939	
Surr: DNOP	96.4	66-131	%REC	1	12/24/2013 7:44:29 AM	10939	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB	
Gasoline Range Organics (GRO)	94	24	mg/Kg	5	12/21/2013 9:22:12 PM	10919	
Surr: BFB	118	74.5-129	%REC	5	12/21/2013 9:22:12 PM	10919	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	ND	0.12	mg/Kg	5	12/21/2013 9:22:12 PM	10919	
Toluene	1.4	0.24	mg/Kg	5	12/21/2013 9:22:12 PM	10919	
Ethylbenzene	0.45	0.24	mg/Kg	5	12/21/2013 9:22:12 PM	10919	
Xylenes, Total	4.8	0.48	mg/Kg	5	12/21/2013 9:22:12 PM	10919	
Surr: 4-Bromofluorobenzene	86.6	80-120	%REC	5	12/21/2013 9:22:12 PM	10919	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 4 of 13 Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Project:

Lab ID:

Analyses

1312A07-005

CLIENT: Animas Environmental Services Client Sample ID: S-10 Enterprise Trunk 6C Collection Date: 12/17/2013 2:07:00 PM Matrix: SOIL Received Date: 12/18/2013 10:00:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: JME

Diesel Range Organics (DRO)	45	10		mg/Kg	1	12/24/2013 8:06:23 AM 10939
Surr: DNOP	99.4	66-131		%REC	1	12/24/2013 8:06:23 AM 10939
EPA METHOD 8015D: GASOLINE RANG	ЭE					Analyst: NSB
Gasoline Range Organics (GRO)	680	48		mg/Kg	10	12/21/2013 11:45:30 PM 10919
Surr: BFB	177	74.5-129	S	%REC	10	12/21/2013 11:45:30 PM 10919
EPA METHOD 8021B: VOLATILES						Analyst: NCD
EFA WEITOD OUZID. VOLATILES						Analyst: NSB
Benzene	0.63	0.48		mg/Kg	10	12/21/2013 11:45:30 PM 10919
	0.63 19	0.48 0.48		mg/Kg mg/Kg	10 10	•
Benzene				0 0		12/21/2013 11:45:30 PM 10919
Benzene Toluene	19	0.48		mg/Kg	10	12/21/2013 11:45:30 PM 10919 12/21/2013 11:45:30 PM 10919
Benzene Toluene Ethylbenzene	19 3.5	0.48 0.48		mg/Kg mg/Kg	10 10	12/21/2013 11:45:30 PM 10919 12/21/2013 11:45:30 PM 10919 12/21/2013 11:45:30 PM 10919

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	-	

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 5 of 13
- Р Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: S-11 **Project:** Enterprise Trunk 6C Collection Date: 12/17/2013 2:09:00 PM Lab ID: 1312A07-006 Matrix: SOIL Received Date: 12/18/2013 10:00:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 12/24/2013 8:28:06 AM 10939 ND 10 mg/Kg 1 Surr: DNOP 97.6 66-131 %REC 1 12/24/2013 8:28:06 AM 10939 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 12/22/2013 12:14:09 AM 10919 Surr: BFB 82.8 74.5-129 %REC 1 12/22/2013 12:14:09 AM 10919 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.049 mg/Kg 1 12/22/2013 12:14:09 AM 10919 Toluene ND 0.049 mg/Kg 1 12/22/2013 12:14:09 AM 10919 Ethylbenzene ND 0.049 mg/Kg 12/22/2013 12:14:09 AM 10919 1 Xylenes, Total ND 0.097 mg/Kg 1 12/22/2013 12:14:09 AM 10919 Surr: 4-Bromofluorobenzene 87.9 80-120 %REC 1 12/22/2013 12:14:09 AM 10919

Qualifiers:	*	Value exceeds Maximum Contaminant Level.

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 6 of 13
- Sample pH greater than 2 for VOA and TOC only. Р
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Date Reported: 12/24/2013 **Client Sample ID:** S-13 Collection Date: 12/17/2013 2:11:00 PM

Project:	Enterprise Trunk 6C	Collection Date: 12/17/2013 2:11:00 PM						
Lab ID:	1312A07-007	Matrix:	SOIL	Received	l Date: 12/18/2013 10:00:00 AM			
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	THOD 8015D: DIESEL RAN	GE ORGANICS				Anal	yst: JME	
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	12/24/2013 8:49:57	AM 10939	
Surr: I	DNOP	98.5	66-131	%REC	1	12/24/2013 8:49:57	AM 10939	
EPA MET	THOD 8015D: GASOLINE R	ANGE				Anal	yst: NSB	
Gasoline	e Range Organics (GRO)	5.6	4.8	mg/Kg	1	12/22/2013 12:42:48	AM 10919	
Surr: I	BFB	88.5	74.5-129	%REC	1	12/22/2013 12:42:48	AM 10919	
EPA MET	THOD 8021B: VOLATILES					Anal	yst: NSB	
Benzene	9	ND	0.048	mg/Kg	1	12/22/2013 12:42:48	AM 10919	
Toluene		ND	0.048	mg/Kg	1	12/22/2013 12:42:48	AM 10919	
Ethylben	izene	ND	0.048	mg/Kg	1	12/22/2013 12:42:48	AM 10919	
Xylenes,	, Total	0.11	0.095	mg/Kg	1	12/22/2013 12:42:48	AM 10919	
Surr: 4	4-Bromofluorobenzene	90.5	80-120	%REC	1	12/22/2013 12:42:48	AM 10919	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 7 of 13
- Р Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Enterprise Trunk 6C

1312A07-008

Project:

Lab ID:

CLIENT: Animas Environmental Services Client Sample ID: S-17 Collection Date: 12/17/2013 2:18:00 PM Matrix: SOIL Received Date: 12/18/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/24/2013 9:11:53 A	M 10939
Surr: DNOP	99.8	66-131	%REC	1	12/24/2013 9:11:53 A	M 10939
EPA METHOD 8015D: GASOLINE RAM	IGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/22/2013 1:11:27 A	M 10919
Surr: BFB	81.2	74.5-129	%REC	1	12/22/2013 1:11:27 A	M 10919
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.048	mg/Kg	1	12/22/2013 1:11:27 A	M 10919
Toluene	ND	0.048	mg/Kg	1	12/22/2013 1:11:27 A	M 10919
Ethylbenzene	ND	0.048	mg/Kg	1	12/22/2013 1:11:27 A	M 10919
Xylenes, Total	ND	0.095	mg/Kg	1	12/22/2013 1:11:27 A	M 10919
Surr: 4-Bromofluorobenzene	89.8	80-120	%REC	1	12/22/2013 1:11:27 A	M 10919

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 8 of 13
- Р Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Enterprise Trunk 6C

Project:

Client Sample ID: S-18 Collection Date: 12/17/2013 2:21:00 PM

Lab ID: 1312A07-009	Matrix:	SOIL	Received Date: 12/18/2013 10:00:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/24/2013 9:34:21 Al	M 10939
Surr: DNOP	109	66-131	%REC	1	12/24/2013 9:34:21 Al	VI 10939
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/22/2013 1:40:00 AI	M 10919
Surr: BFB	82.3	74.5-129	%REC	1	12/22/2013 1:40:00 Al	VI 10919
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.048	mg/Kg	1	12/22/2013 1:40:00 AI	M 10919
Toluene	ND	0.048	mg/Kg	1	12/22/2013 1:40:00 Al	M 10919
Ethylbenzene	ND	0.048	mg/Kg	1	12/22/2013 1:40:00 Al	M 10919
Xylenes, Total	0.16	0.096	mg/Kg	1	12/22/2013 1:40:00 Al	M 10919
Surr: 4-Bromofluorobenzene	88.2	80-120	%REC	1	12/22/2013 1:40:00 AI	VI 10919

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

Oualifiers: * Value exceeds Maximum Contaminant Level. В

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 9 of 13
- Р Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit RL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Enterprise Trunk 6C

Client Sample ID: S-20 Collection Date: 12/17/2013 2:24:00 PM

Lab ID: 1312A07-010	Matrix:	SOIL	Received 1	Date: 12/	/18/2013 10:00:00 A	М
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	330	10	mg/Kg	1	12/24/2013 9:56:05 A	M 10939
Surr: DNOP	99.8	66-131	%REC	1	12/24/2013 9:56:05 A	M 10939
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	40	24	mg/Kg	5	12/22/2013 2:08:35 A	M 10919
Surr: BFB	106	74.5-129	%REC	5	12/22/2013 2:08:35 A	M 10919
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.12	mg/Kg	5	12/22/2013 2:08:35 A	M 10919
Toluene	0.31	0.24	mg/Kg	5	12/22/2013 2:08:35 A	M 10919
Ethylbenzene	0.28	0.24	mg/Kg	5	12/22/2013 2:08:35 A	M 10919
Xylenes, Total	3.2	0.48	mg/Kg	5	12/22/2013 2:08:35 A	M 10919
Surr: 4-Bromofluorobenzene	98.2	80-120	%REC	5	12/22/2013 2:08:35 A	M 10919

DC 4 . 11. 00.0 1 12 4 6 CI 100 1 .1 tion.

Refer to the	QC Summary	report and	sample login	checklist for	flagged Q	C data and β	preservation	informatio

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	_	

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit Page 10 of 13
- Р Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit RL

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1312A07

	Environmental Services ise Trunk 6C		
Sample ID MB-10939	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 10939	RunNo: 15679	
Prep Date: 12/23/2013	Analysis Date: 12/24/2013	SeqNo: 452732	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Surr: DNOP	10 10.00	101 66	131
Sample ID MB-10940	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 10940	RunNo: 15679	
Prep Date: 12/23/2013	Analysis Date: 12/24/2013	SeqNo: 452733	Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	12 10.00	117 66	131
Sample ID MB-10941	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 10941	RunNo: 15679	
Prep Date: 12/23/2013	Analysis Date: 12/23/2013	SeqNo: 452734	Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00	101 66	131
Sample ID LCS-10939	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 10939	RunNo: 15679	
Prep Date: 12/23/2013	Analysis Date: 12/24/2013	SeqNo: 452735	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	65 10 50.00	0 129 60.8	145
Surr: DNOP	6.3 5.000	126 66	131
Sample ID LCS-10940	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 10940	RunNo: 15679	
Prep Date: 12/23/2013	Analysis Date: 12/24/2013	SeqNo: 452736	Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	6.5 5.000	131 66	131
Sample ID LCS-10941	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 10941	RunNo: 15679	
Prep Date: 12/23/2013	Analysis Date: 12/23/2013	SeqNo: 452737	Units: %REC
Analyte	-	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.7 5.000	114 66	131

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 11 of 13

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1312A07
	24-Dec-13

	Environme		vices							
Sample ID MB-10919		Type: ME		Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batc	h ID: 10	919	R	RunNo: 1	5666				
Prep Date: 12/20/2013	Analysis E	Date: 12	2/21/2013	S	SeqNo: 4	51650	Units: mg/#	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		82.3	74.5	129			
Sample ID LCS-10919	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batc	h ID: 10	919	R	RunNo: 1	5666				
Prep Date: 12/20/2013	Analysis E	Date: 12	2/21/2013	S	SeqNo: 4	51651	Units: mg/H	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	74.5	126			
Surr: BFB	820		1000		81.7	74.5	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2 for VOA and TOC only.

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Reporting Detection Limit RL

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1312A07
	24-Dec-13

	Animas Environme Enterprise Trunk 6		vices							
Sample ID MB-1091	9 Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Bato	h ID: 10	919	F	lunNo: 1	5666				
Prep Date: 12/20/20	013 Analysis	Date: 12	2/21/2013	S	eqNo: 4	51673	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenz	ene 0.90		1.000		90.5	80	120			
Sample ID LCS-109	19 Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Bato	ch ID: 10	919	F	RunNo: 1	5666				
Prep Date: 12/20/20	013 Analysis	Date: 12	2/21/2013	S	SeqNo: 4	51674	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.4	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.7	80	120			
Surr: 4-Bromofluorobenz	ene 0.85		1.000		84.5	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2 for VOA and TOC only.

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RL Reporting Detection Limit

ENVIRONMENTAL ANALYSIS LABORATORY			^{NE} 7109 Sam 7107	ple Log-In C	heck List
Client Name: Animas Environmental	Work Order Number:	1312A07		RcptNo:	1
Received by/date: MG-12/18	113				
Logged By: Anne Thorne 1;	2/18/2013 10:00:00 AM		anne Hom		
Completed By: Anne Thorne 1:	2/20/2013		ame Im		
Reviewed By:	2/20/13				
Chain of Custody			-		
1. Custody seals intact on sample bottles?		Yes	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		<u>Courier</u>			
<u>Log In</u>					
4. Was an attempt made to cool the samples?		Yes 🔽	No 🗌		
5. Were all samples received at a temperature of	► >0° C to 6.0°C	Yes 🔽	No 🗌		
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗔		
8. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10.VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sample containers received broken?	?	Yes 🗌	No 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗔	bottles checked for pH:	r >12 unless noted)
13. Are matrices correctly identified on Chain of Cu	ustodv?	Yes 🗹	No 🗆	رحک 0 Adjusted?	r > rz umess noteu)
14. Is it clear what analyses were requested?	•	Yes 🗹	No 🗌		·
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗔	Checked by:	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with this	s order?	Yes	No 🗌	NA 🔽	
Person Notified:	Date]
By Whom:		eMail 🗌 P	hone 🦳 Fax	In Person	
Regarding:					
Client Instructions:				······································	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			<u></u>

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Chain-of-Custody Record	Turn-Around Time:		
Client: Animas Environmental Services	X Standard		
	Project Name:		www hallenvironmental com
Mailing Address: 624 E. Comanene	Entrovise Trunk 6 C		4901 Hawkins NE - Albuquerque, NM 87109
Farmington, NM 87401	Project #:	1	
Phone #: 505. 564-228;			Analysis
email or Fax#:	Project Manager:		(ə:
QA/QC Package:			seiQ
X Standard	H Woods		[₽] Od
Accreditation	Sampler: H. WordS		8085 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
EDD (Type)	Temp		108 1478 1504 1504 1504 1504 1504
Date Time Matrix Sample Request ID	Container Preservative Type and # Type	TEX + MEE	PH Method PH (Method DB (Method 310 (PUA o 310 (PUA o 310 (PUA o 700 (Semi-/ 270 (Semi-/
12/17/13 [354 Soil 5-2	1-402		T × 1 × 8 8 8 8 8 8 8 8 8 8 8 8 8
12/17/13 1355 Soil 5-3	1-402	-	
12/17/13 1357 Soil 5-4	1-402	-CO X	
1217413 1405 Soil S-9	1-402	•	
12/17/13 1407 Soil 5-10	1-402	X SW-	X
12/17/13 1409 Soil S-11	1-402		
12/13/13 14 11 Soil 5-13	1-402		
12/17/13 1418 Soil S-17	1-402	XBU	
12/17/13 1421 Soil 5-18	1- 402	X bo-	
12/17/13 1424 Soil 5-20	1-402	1012-	
		~	
Date: Time: Relinquished by:	Received by:	Time	
2	Monster Indeter	12/11/12 1738	Bill to Enterprise Field Swuice
11me: 1756	Received by:	Date Time ()()()())	
If necessary, supples submitted to Hall Environmental may be subo	contracted to ather accredited taboratories.		This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.