3R – 438 2014 AGWMR 05 / 28 / 2015



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

May 28, 2015

Submitted via email to the NMOCD FTP website

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: 1st and 3rd Quarter 2014 Groundwater Monitoring Report Enterprise Field Services, LLC Trunk 6C (10/29/13) Release Site (Formerly Lateral 6C) NMOCD Order Number: 3RP-438-0 NE¹/₄ SW¹/₄, Section 26, T28N, R11W San Juan County, New Mexico

Dear Mr. Griswold:

Enterprise Field Services, LLC (Enterprise) is submitting the attached report entitled: 1st and 3rd Quarter 2014, Groundwater Monitoring Report for the Trunk 6C (10/29/13) Release Site, and dated January 13, 2015. This report documents the results of the seventh consecutive quarterly groundwater monitoring and sampling event conducted at the above-referenced release site during March 2014, and the subsequent semi-annual sampling event in September 2014.

During the first quarter 2014 sampling event, a total of twelve (12) monitor wells (MW-2 through MW-13) and two hydro-punch temporary wells were sampled for dissolved-phase constituents. One (1) monitor well (MW-1) contained measurable accumulations of non-aqueous phase liquid (NAPL), and was not sampled. During the third quarter sampling event, a total of twelve (12) monitor wells (MW1 through MW-7 and MW-9 through MW-13) were sampled for dissolved-phase constituents. Two (2) monitor wells (MW-1 and MW-8) contained measurable accumulations of non-aqueous phase liquid (NAPL). MW-1 (0.01 foot NAPL) was sampled but MW-8 (0.13 foot) was not sampled. Due to the presence of benzene concentrations in 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 sparging (AS), soil vapor extraction (SVE) and Multi Phase Extraction (MPE). A pilot test may be conducted to aid in the design and implementation of a remediation system at this location.

If you have any questions concerning the attached report, please do not hesitate to contact me at (713) 381-8780, or via email at: <u>gemiller@eprod.com</u>.

Mr. Jim Griswold – NM Energy, Minerals & Natural Resources Dept. May 28, 2015 Page Two

Sincerely,

Gregory E. Miller, P.G.

Supervisor, Environmental

/dep Attachment

Rodney M. Sartor, REM Director, Environmental

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 Tom Long, Enterprise



January 13, 2015

Greg Miller Enterprise Products Operating, LLC P.O. Box 4324 13th Floor, Remediation Group Houston, Texas 77210-4324

Via email with delivery confirmation receipt: gemiller@eprod.com

RE: 1st and 3rd Quarter 2014 Groundwater Monitoring Report Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release (Former Lateral 6C) NMOCD Order Number: 3RP-438-0 NE¼ SW¼, Section 26, T28N, R11W San Juan County, New Mexico

Dear Mr. Miller:

Animas Environmental Services, LLC (AES), on behalf of Enterprise Field Services, LLC (Enterprise), has prepared this *1st and 3rd Quarter 2014 Groundwater Monitoring Report* for the Trunk 6C September 2011 and October 2013 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 seventh consecutive quarterly monitoring and sampling event for the subject release location in March 2014 and subsequent semi-annual sampling event in September 2014.

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 are 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 2011 and October 2013) is included as Figure 2.

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

> 1911 Main, Ste 280 Durango, CO 970-403-3084

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 (2011) 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.

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.

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 µg/L benzene, 5,700 µg/L toluene, and 4,000 µg/L xylenes.

1.2.4 Groundwater Investigation – September 2012

In August and September 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 below NMOCD action levels in all of the soil borings. Laboratory analytical results showed groundwater contaminant concentrations above the WQCC standard of 10 μ g/L for benzene in MW-1 (2,200 μ g/L), MW-2 (270 μ g/L), MW-4 (18 μ g/L), and MW-8 (41 μ g/L). Additionally, dissolved phase toluene above the WQCC standard of 750 μ g/L was reported in MW-2 with 1,100 μ g/L, and xylene above the WQCC standard of 620 μ g/L was reported in MW-1 (650 μ g/L), MW-2 (1,800 μ g/L), and MW-6 (2,200 μ g/L).

1.2.5 Quarterly Groundwater Monitoring and Sampling – December 2012 through December 2013

Site monitor wells were monitored and sampled by AES on:

- December 20, 2012 (Quarterly Groundwater Sampling Report, February 13, 2013);
- March 20, 2013 (Quarterly Groundwater Sampling Report, May 13, 2013)
- June 19, 2013 (Quarterly Groundwater Sampling Report, August 26, 2013)
- September 17 and 18, 2013, with installation of four additional monitor wells on October 16, 2013 (*Quarterly Groundwater Monitoring and Well Installation Report, December 10, 2013*)
- December 16, 2013 (Groundwater Monitoring and Continued Investigation Report, July 23, 2014)

1.3 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, an initial assessment and excavation were completed. Following pipeline repair activities, AES returned to the location on December 17, 2013. 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.

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. 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.

1.4 Aquifer Testing – December 2013

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 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.

2.0 Groundwater Monitoring and Sampling – March 2014

On March 14, 2014, groundwater monitoring and sampling were conducted by AES in monitoring wells MW-1 through MW-13 and temporary wells TW-1 and TW-2. 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.

The temporary wells (TW-1 and TW-2) were installed by hydro-punch method to the north (TW-2) and northwest (TW-1) of MW-10 to delineate the lateral extent of the contaminant plume. The groundwater samples were collected with a peristaltic pump and the hydro-punch screens were pulled immediately after sampling. The approximate location of the temporary hydro-punch wells are shown on Figure 4.

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 fifth consecutive quarter in MW-1 (0.01 feet); however, NAPL was no longer observed in MW-2. Groundwater elevations increased by an average of 0.39 feet across the site, and depths to groundwater were observed to range from 14.53 feet below top of casing (TOC) in MW-8 to 19.63 feet below TOC in MW-13. The groundwater gradient was calculated to be approximately 0.007 foot/foot to the northwest. Groundwater gradient contours are included on Figure 3.

Following depth to water measurement, each well was purged with a peristaltic pump until recorded temperature, pH, conductivity, and DO measurements were stabilized. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 12.79°C in MW-11 up to 17.00°C in MW-13, and conductivity ranged from 2.218 mS in MW-9 to 5.045 mS in MW-10. Dissolved oxygen concentrations were between 0.53 mg/L in MW-10 and 2.51 in MW-5, and pH ranged from 7.08 in MW-3 to 7.56 in MW-9. Depth to groundwater measurements and water quality data are summarized in Table 1, and Water Sample Collection forms are presented in Appendix A.

2.2 Groundwater Laboratory Analyses

Groundwater samples were collected using low flow purging technique with a peristaltic pump from a total of 12 monitor wells and 2 temporary wells, 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 ALS Environmental (ALS) in Houston, Texas. 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-2 (1,200 μ g/L), MW-3 (200 μ g/L), MW-8 (66 μ g/L) and MW-10 (560 μ g/L). Dissolved phase toluene concentrations were above the WQCC standard of 750 μ g/L in MW-2 with 1,600 μ g/L. Dissolved phase xylene concentrations exceeded the WQCC standard of 620 μ g /L in MW-2 with 660 μ g/L and MW-6 at 990 μ g/L. Dissolved phase ethylbenzene concentrations were below the WQCC standard of 750 μ g/L in all wells sampled. Additionally, the analytical results for the temporary wells (TW-1 and TW-2) were below laboratory detection levels for BTEX.

Tabulated groundwater analytical results are presented in Table 2 and on Figure 4, and dissolved phase benzene and xylene contours are presented on Figures 5 and 6, respectively. Groundwater laboratory analytical reports are presented in the Appendix B.

3.0 Groundwater Monitoring and Sampling – September 2014

On September 9, 2014, groundwater monitoring and sampling were conducted by AES in MW-1 through MW-13, and samples were collected from MW-1 through MW-7 and MW-9 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 USEPA Environmental Response Team's SOPs and applicable ASTM standards.

3.1 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, DO, and ORP. Depth to groundwater measurements and water quality data were recorded onto Water Sample Collection forms. During this sampling event, NAPL was observed in MW-1 (0.01 feet) and in MW-8 (0.13 feet). Groundwater elevations decreased by an average of 0.69 feet across the site since the March 2014 sampling event, and depths to groundwater were observed to range from 15.25 feet below top of casing (TOC) in MW-8 to 20.18 feet below TOC in MW-13. The groundwater gradient was calculated to be approximately 0.009 foot/foot to the northwest. Groundwater gradient contours are included on Figure 7.

Following depth to water measurement, each well was purged with a 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 14.59°C in MW-9 and MW-11 to 17.55°C in MW-1, and conductivity ranged from 2.009 mS in MW-9 to 3.363 mS in MW-10. Dissolved oxygen concentrations were between 1.17 mg/L in MW-1 and 5.16 in MW-10, and pH ranged from 9.00 in MW-9 to 9.57 in MW-7. Depth to groundwater measurements and water quality data are summarized in Table 1, and Water Sample Collection forms are presented in Appendix A.

3.2 Groundwater Laboratory Analyses

Groundwater samples were collected using new disposable bailers from a total of 12 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.

3.2.1 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-1 (1,900 μ g/L), MW-2 (78 μ g/L), and MW-10 (580 μ g/L). Dissolved phase toluene, ethylbenzene, and xylene concentrations were below applicable WQCC standards in all wells sampled. Tabulated groundwater analytical results are presented in Table 2 and on Figure 8, and dissolved phase benzene and xylene contours are presented on Figures 9 and 10, respectively. Groundwater laboratory analytical reports are presented in Appendix B.

4.0 Conclusions and Recommendations

On March 14, 2014, a total of 13 monitor wells (MW-1 through MW-13) and two temporary wells (TW-1 and TW-2) were monitored and sampled at the Trunk 6C (formerly Lateral 6C) September 2011 pipeline release location by AES. Note that during this sampling event, NAPL was observed for the fifth consecutive quarter in MW-1 (0.01 feet) but was no longer observed in MW-2.

For the March 2014 sampling event, groundwater in MW-2 (which previously showed NAPL) exceeded the WQCC standard for benzene (1,200 μ g/L), toluene (1,600 μ g/L), and xylenes (660 μ g/L). Laboratory results confirmed dissolved phase benzene concentrations above the WQCC standard in three additional wells, including MW-3 (200 μ g/L), MW-8 (66 μ g/L), and MW-10 (560 μ g/L). Note that benzene concentrations no longer exceeded the WQCC standard of 10 μ g/L in MW-4 (4.0 μ g/L). With the exception of MW-2, no other wells sampled were above WQCC standards for toluene, and none of the wells sampled were above the WQCC standard of 620 μ g/L in MW-6 with 990 μ g/L. Low benzene concentrations and high xylene concentrations in MW-6 may be indicative of weathering or partially degraded petroleum hydrocarbons.

Site monitor wells were again sampled by AES on September 9, 2014. A very small amount (0.01 ft) of NAPL was measured in MW-1 and was observed for the first time in MW-8 (0.13 feet). Groundwater exceeded the WQCC standard for benzene in MW-1 (1,900 μ g/L), MW-2 (78 μ g/L), and MW-10 (580 μ g/L). Otherwise, laboratory results confirmed dissolved phase toluene, ethylbenzene, and xylene concentrations were below applicable WQCC standards in all wells sampled.

Based on the laboratory analytical results of groundwater samples collected in March and September 2014, groundwater continues to be impacted above applicable WQCC standards. AES recommends:

Continued monitoring and sampling of site monitor wells on a semi-annual basis;

- Drilling and installation of three monitoring wells downgradient of MW-8 (0.13 feet NAPL) and MW-10 (580 µg/L benzene) to further delineate the downgradient extent of the contaminant plume; and
- Completion of an air sparge (AS) and soil vapor extraction (SVE) pilot test and a multi-phase extraction (MPE) pilot test to aid in the design and implementation of a mechanical remediation system at the location. Note that a workplan detailing the AS/SVE and the MPE pilot study has already been submitted under separate cover.

The next sampling event is tentatively scheduled for March 2015. The remedial pilot studies will be scheduled once access agreements with BLM are in place.

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

Sincerely,

Brent went

Brent Everett Senior Hydrogeologist/Project Manager

Elizabeth V Merdly

Elizabeth McNally, P.E.

Attachments:

Tables

- Table 1.
 Summary of Groundwater Measurements and Water Quality Data
- Table 2.
 Summary of Groundwater Laboratory Analytical Results

Figures

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Groundwater Elevation Contours, March 2014
- Figure 4. Groundwater Contaminant Concentrations, March 2014
- Figure 5. Dissolved Benzene Concentration Contours, March 2014
- Figure 6. Dissolved Xylene Concentration Contours, March 2014
- Figure 7. Groundwater Elevation Contours, September 2014

- Figure 8. Groundwater Contaminant Concentrations, September 2014
- Figure 9. Dissolved Benzene Concentration Contours, September 2014
- Figure 10. Dissolved Xylene Concentration Contours, September 2014

Appendices

Appendix A.	Water Sample Collection Forms
Appendix B.	Groundwater Analytical Reports (ALS 14030737 and Hall 1409436)

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Tables

Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release

			Depth to	Depth to							
			NAPL	Water			Corrected			Dissolved	_
		Surveyed	(ft below	(ft below	Thickness	GW Elev.	GW Elev.		Conductivity	Oxygen	Temp.
Well ID	Date	TOC (ft)	ΤΟϹ)	ΤΟϹ)	(ft)	(ft amsl)	(ft)	рН	(mS)	(mg/L)	(ºC)
MW-1	07-Sep-12	5579.73		15.78		5563.95		7.02	5.616	1.72	17.31
MW-1	20-Dec-12	5579.73		15.69		5564.04		7.38	4.567	1.41	16.71
MW-1	20-Mar-13	5579.73	15.31	15.73	0.42	5564.00	5564.30	NA	NA	NA	NA
MW-1	19-Jun-13	5579.73	15.49	15.75	0.26	5563.98	5564.17	NA	NA	NA	NA
MW-1	17-Sep-13	5579.73	15.79	16.27	0.48	5563.46	5563.81	NA	NA	NA	NA
MW-1	16-Dec-13	5579.73	15.59	15.75	0.16	5563.98	5564.09	NA	NA	NA	NA
MW-1	14-Mar-14	5579.73	15.35	15.36	0.01	5564.37	5564.38	NA	NA	NA	NA
MW-1	09-Sep-14	5579.73	15.98	15.99	0.01	5563.74	5563.75	9.16	2.592	1.17	17.55
MW-2	07-Sep-12	5579.39		16.29		5563.10		7.31	4.234	1.03	16.67
MW-2	20-Dec-12	5579.39		16.22		5563.17		7.61	3.511	1.45	15.42
MW-2	20-Mar-13	5579.39		15.97		5563.42		7.50	6.788	1.06	14.88
MW-2	19-Jun-13	5579.39	15.96	16.40	0.44	5562.99	5563.31	NA	NA	NA	NA
MW-2	17-Sep-13	5579.39	16.40	16.54	0.14	5562.85	5562.95	NA	NA	NA	NA
MW-2	16-Dec-13	5579.39	16.14	16.22	0.08	5563.17	5563.23	NA	NA	NA	NA
MW-2	14-Mar-14	5579.39		15.89		5563.50		7.39	3.624	2.62	15.00
MW-2	09-Sep-14	5579.39		16.50		5562.89		9.35	2.364	3.52	17.17
MW-3	07-Sep-12	5579.52		15.98		5563.54		7.33	5.706	2.24	15.29
MW-3	20-Dec-12	5579.52		15.79		5563.73		7.13	4.496	2.30	13.84
MW-3	20-Mar-13	5579.52		15.50		5564.02		7.33	8.893	2.62	13.63
MW-3	19-Jun-13	5579.52		15.66		5563.86		6.08	8.451	2.65	15.30
MW-3	18-Sep-13	5579.52		15.96		5563.56		6.99	9.841	0.41	17.06
MW-3	16-Dec-13	5579.52		15.70		5563.82		7.20	9.241	NA	17.54
MW-3	14-Mar-14	5579.52		15.39		5564.13		7.08	3.523	NA	14.23
MW-3	09-Sep-14	5579.52		16.10		5563.42		9.08	2.748	2.92	15.52

San Juan County, New Mexico

1st and 3rd Quarter 2014 Groundwater Monitoring Report January 13, 2015

Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release

San Juan	County,	New	Mexico
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			Depth to	Depth to							
			NAPL	Water	NAPL		Corrected			Dissolved	
		Surveyed	(ft below	(ft below	Thickness	GW Elev.	GW Elev.		Conductivity	Oxygen	Тетр.
Well ID	Date	TOC (ft)	тос)	ΤΟϹ)	(ft)	(ft amsl)	(ft)	рН	(mS)	(mg/L)	(ºC)
							-				
MW-4	07-Sep-12	5580.36		15.59		5564.77		7.30	5.564	1.46	15.77
MW-4	20-Dec-12	5580.36		15.51		5564.85		7.06	4.106	1.51	14.94
MW-4	20-Mar-13	5580.36		15.25		5565.11		7.23	7.897	1.17	14.00
MW-4	19-Jun-13	5580.36		15.41		5564.95		6.32	7.468	3.21	15.90
MW-4	18-Sep-13	5580.36		15.74		5564.62		7.11	8.425	0.49	18.42
MW-4	16-Dec-13	5580.36		15.45		5564.91		7.16	7.659	NA	17.75
MW-4	14-Mar-14	5580.36		15.14		5565.22		7.15	3.736	1.42	14.22
MW-4	09-Sep-14	5580.36		15.80		5564.56		9.28	2.602	3.68	16.07
MW-5	07-Sep-12	5583.53		19.35		5564.18		7.34	4.137	1.53	14.89
MW-5	20-Dec-12	5583.53		19.28		5564.25		7.00	3.438	2.65	13.74
MW-5	20-Mar-13	5583.53		19.10		5564.43		7.28	6.957	2.29	13.86
MW-5	19-Jun-13	5583.53		19.21		5564.32		7.22	6.377	1.15	15.68
MW-5	17-Sep-13	5583.53		19.55		5563.98		7.23	7.545	3.72	19.23
MW-5	16-Dec-13	5583.53		19.28		5564.25		7.44	6.793	NA	16.73
MW-5	14-Mar-14	5583.53		19.03		5564.50		7.45	3.540	2.51	13.67
MW-5	09-Sep-14	5583.53		19.58		5563.95		9.13	2.299	5.01	14.69
MW-6	07-Sep-12	5582.22		18.55		5563.67		7.38	4.833	1.24	15.43
MW-6	20-Dec-12	5582.22		18.49		5563.73		7.46	3.932	1.09	14.08
MW-6	20-Mar-13	5582.22		18.27		5563.95		7.38	7.571	0.79	14.36
MW-6	19-Jun-13	5582.22		18.38		5563.84		5.46	6.836	5.35	16.86
MW-6	18-Sep-13	5582.22		18.74		5563.48		7.19	8.042	0.59	17.31
MW-6	16-Dec-13	5582.22		18.46		5563.76		7.39	7.232	NA	16.61
MW-6	14-Mar-14	5582.22		18.21		5564.01		7.18	3.756	NA	14.66

Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release

			Depth to NAPL	Depth to Water	NAPL		Corrected			Dissolved	
···· ·· ·	_	Surveyed	(ft below	(ft below	Thickness	GW Elev.	GW Elev.		Conductivity	Oxygen	Temp.
Well ID	Date	TOC (ft)	тос)	ΤΟϹ)	(ft)	(ft amsl)	(ft)	рН	(mS)	(mg/L)	(ºC)
MW-6	09-Sep-14	5582.22		18.75		5563.47		9.18	2.099	1.83	15.32
			-								
MW-7	07-Sep-12	5582.24		19.03		5563.21		7.59	4.542	1.38	15.24
MW-7	20-Dec-12	5582.24		18.97		5563.27		7.53	3.660	1.16	13.86
MW-7	20-Mar-13	5582.24		18.79		5563.45		7.45	7.512	1.45	14.40
MW-7	19-Jun-13	5582.24		18.87		5563.37		5.67	6.747	3.72	16.68
MW-7	17-Sep-13	5582.24		19.22		5563.02		7.44	4.530	2.90	20.30
MW-7	16-Dec-13	5582.24		18.46		5563.78		7.62	7.584	NA	16.85
MW-7	14-Mar-14	5582.24		18.73		5563.51		7.42	3.914	1.44	14.24
MW-7	09-Sep-14	5582.24		19.24		5563.00		9.57	2.271	3.89	14.91
MW-8	07-Sep-12	5577.81		14.96		5562.85		7.57	4.068	1.30	16.16
MW-8	20-Dec-12	5577.81		14.87		5562.94		7.56	3.339	0.97	15.25
MW-8	20-Mar-13	5577.81		14.63		5563.18		7.41	7.084	2.06	14.86
MW-8	19-Jun-13	5577.81		14.74		5563.07		5.68	6.235	4.21	16.43
MW-8	18-Sep-13	5577.81		15.08		5562.73		7.39	7.419	0.83	17.93
MW-8	16-Dec-13	5577.81		14.81		5563.00		7.21	6.931	2.46	17.44
MW-8	14-Mar-14	5577.81		14.53		5563.28		7.47	3.563	1.35	15.03
MW-8	09-Sep-14	5577.81	15.12	15.25	0.13	5562.56	5562.65	NA	NA	NA	NA
	-	-	-	-	-	-					
MW-9	07-Sep-12	5582.48		17.55		5564.93		7.45	4.583	1.48	15.61
MW-9	20-Dec-12	5582.48		17.47		5565.01		7.14	3.369	2.29	13.06
MW-9	20-Mar-13	5582.48		17.28		5565.20		7.30	6.700	2.56	13.70
MW-9	19-Jun-13	5582.48		17.42		5565.06		7.26	6.265	1.82	14.14
MW-9	17-Sep-13	5582.48		17.74		5564.74		7.12	7.500	0.30	16.20
MW-9	16-Dec-13	5582.48		17.48		5565.00		7.49	6.786	NA	15.47

San Juan County, New Mexico

1st and 3rd Quarter 2014 Groundwater Monitoring Report January 13, 2015

Enterprise Field Services, LLC Trunk 6C September 2011 and October 2013 Pipeline Release

San Juan County, New Mexico

			Depth to	Depth to Water	ΝΑΡΙ		Corrected			Dissolved	
		Surveyed	INAT L	Ift helow	Thickness	GW Elev	GW Fley		Conductivity	Ovvaen	Temn
Well ID	Date	$TOC(f_{t})$			/ft)	(ft amsl)	(ft)	nH	(mS)	(ma/l)	
			100)	17.21	09		09		2.219	1.04	12.02
10100-9	14-Iviar-14	5582.48		17.21		5565.27		7.56	2.218	1.64	13.82
MW-9	09-Sep-14	5582.48		17.83		5564.65		9.00	2.009	4.81	14.59
MW-10	16-Dec-13	5577.80		16.93		5560.87		7.62	10.140	0.31	13.85
MW-10	14-Mar-14	5577.80		14.63		5563.17		7.32	5.045	0.53	14.54
MW-10	09-Sep-14	5577.80		15.34		5562.46		9.49	3.363	5.16	15.79
MW-11	16-Dec-13	5578.65		15.15		5563.50		7.65	8.945	0.65	13.21
MW-11	14-Mar-14	5578.65		14.82		5563.83		7.40	4.591	1.35	12.79
MW-11	09-Sep-14	5578.65		15.63		5563.02		9.42	2.043	2.51	14.59
MW-12	16-Dec-13	5579.99		15.54		5564.45		7.64	6.782	0.67	13.90
MW-12	14-Mar-14	5579.99		15.27		5564.72		7.52	3.500	0.98	13.19
MW-12	09-Sep-14	5579.99		15.96		5564.03		9.52	2.129	2.40	16.27
MW-13	16-Dec-13	5583.03		19.88		5563.15		7.45	6.731	0.78	14.52
MW-13	14-Mar-14	5583.03		19.63		5563.40		7.31	3.436	2.41	17.00
MW-13	09-Sep-14	5583.03		20.18		5562.85		9.40	2.281	4.76	15.32

Notes: NA - not analyzed

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes	Total Dissolved Solids		
		μg/L	μg/L	μg/L	μg/L	mg/L		
Sa	mple Method		EPA Me	ethod 8260		SM2540C		
wqa	C STANDARD	10 750 750 620						
MW-1	07-Sep-12	2,200	350	68	650	NA		
MW-1	20-Dec-12	1,100	250	37	180	NA		
MW-1	20-Mar-13	Fr	NA					
MW-1	19-Jun-13	Fr	ee Product l	Present (0.26	5 feet)	NA		
MW-1	17-Sep-13	Fr	ee Product l	Present (0.48	3 feet)	NA		
MW-1	16-Dec-13	Fr	ee Product l	5 feet)	NA			
MW-1	14-Mar-14	Fr	ee Product l	NA				
MW-1	09-Sep-14	1,900	440	54	400	NA		
MW-2	07-Sep-12	270	1,100	66	1,800	NA		
MW-2	20-Dec-12	26	49	5.1	250	NA		
MW-2	20-Mar-13	<5.0	<5.0	<5.0	67	NA		
MW-2	19-Jun-13	Fr	Free Product Present (0.44 feet)					
MW-2	17-Sep-13	Fr	Free Product Present (0.14 feet)					
MW-2	16-Dec-13	Fr	Free Product Present (0.06 feet)					
MW-2	14-Mar-14	1,200	1,600	74	660	NA		
MW-2	09-Sep-14	78	76	2.9	110	NA		
MW-3	07-Sep-12	<2.0	<2.0	<2.0	<4.0	NA		
MW-3	20-Dec-12	<2.0	<2.0	<2.0	<4.0	NA		
MW-3	20-Mar-13	<2.0	<2.0	<2.0	<4.0	NA		
MW-3	19-Jun-13	780	130	2.5	15	NA		
MW-3	18-Sep-13	150	28	<5.0	15	4,670		
MW-3	16-Dec-13	660	340	16	130	NA		
MW-3	14-Mar-14	200	86	4.0	49	NA		
MW-3	09-Sep-14	2.5	1.7	<1.0	3.3	NA		
MW-4	07-Sep-12	18	5.1	<2.0	<4.0	NA		
MW-4	20-Dec-12	<2.0	<2.0	<2.0	<4.0	NA		
MW-4	20-Mar-13	290	110	<2.0	15	NA		
MW-4	19-Jun-13	600	45	<10	<20	NA		
MW-4	18-Sep-13	830	39	<20	<30	4,030		
MW-4	16-Dec-13	300	110	10	63	NA		
MW-4	14-Mar-14	4.0	<1.0	<1.0	<3.0	NA		
MW-4	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA		

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

Well ID	Date	Benzene	Toluene	Ethyl- benzene	Xylenes	Total Dissolved
	Sampled	ua/I	ua/I	ua/I	ua/I	Solids ma/l
Sa	mple Method	μ9/ -	EPA Me	ethod 8260	μ9/ -	SM2540C
WQC	C STANDARD	10 750 750			620	
MW-5	07-Sep-12	<2.0	<2.0	<2.0	<4.0	NA
MW-5	20-Dec-12	<2.0	<2.0	<2.0	<4.0	NA
MW-5	20-Mar-13	<2.0	<2.0	<2.0	<4.0	NA
MW-5	19-Jun-13	<1.0	<1.0	<1.0	<2.0	NA
MW-5	17-Sep-13	<1.0	<1.0	<1.0	<1.5	3,630
MW-5	16-Dec-13	2.1	4.7	4.0	17	NA
MW-5	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-5	09-Sep-14	<1.0	<1.0	<1.0	<2.0	NA
MW-6	07-Sep-12	<5.0	<5.0	260	2,200	NA
MW-6	20-Dec-12	<5.0	<5.0	180	1,200	NA
MW-6	20-Mar-13	<5.0	<5.0	120	800	NA
MW-6	19-Jun-13	9.6	6.2	150	1,100	NA
MW-6	18-Sep-13	<5.0	<5.0	180	1,200	3,750
MW-6	16-Dec-13	<5.0	<5.0	140	990	NA
MW-6	14-Mar-14	<1.0	<1.0	150	990	NA
MW-6	09-Sep-14	<5.0	<5.0	49	400	NA
MW-7	07-Sep-12	<2.0	<2.0	<2.0	<4.0	NA
MW-7	20-Dec-12	<2.0	<2.0	<2.0	2.4	NA
MW-7	20-Mar-13	<2.0	<2.0	<2.0	<4.0	NA
MW-7	19-Jun-13	<1.0	<1.0	<1.0	<2.0	NA
MW-7	17-Sep-13	<1.0	<1.0	<1.0	<1.5	4,040
MW-7	16-Dec-13	1.6	3.9	3.6	16	NA
MW-7	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-7	09-Sep-14	<1.0	<1.0	<1.0	<2.0	NA
MW-8	07-Sep-12	41	40	3.8	320	NA
MW-8	20-Dec-12	<2.0	<2.0	<2.0	20	NA
MW-8	20-Mar-13	41	36	<2.0	89	NA
MW-8	19-Jun-13	21	12	<1.0	6.8	NA
MW-8	18-Sep-13	<1.0	<1.0	3.4	27	3,590
MW-8	16-Dec-13	18	21	5.1	74	NA
MW-8	14-Mar-14	66	190	10	210	NA
MW-8	09-Sep-14	Fr	ee Product F	Present (0.13	8 feet)	NA

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

Well ID	Date Sampled	Benzene ua/L	Toluene ua/L	Ethyl- benzene ua/L	Xylenes ua/L	Total Dissolved Solids ma/L
Sample Method		1-57	P.5/	SM2540C		
woo	CC STANDARD	10	750	750	620	
N/1\A/_Q	07 - Son = 12	<2.0	2.4	<2.0	<10	ΝΔ
MW-9	20-Dec-12	<2.0	<2.4	<2.0	<4.0	NA NA
MW-9	20 Dec 12	<2.0	<2.0	<2.0	<4.0	NA
MW-9	19-Jun-13	<1.0	<1.0	<1.0	<2.0	NA
MW-9	17-Sep-13	<1.0	<1.0	<1.0	<1.5	3,550
MW-9	16-Dec-13	1.5	3.5	2.9	12	NA
MW-9	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-9	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA
MW-10	16-Dec-13	950	34	12	39	NA
MW-10	14-Mar-14	560	4.0	16	27	NA
MW-10	09-Sep-14	580	<10	34	<20	NA
MW-11	16-Dec-13	2.6	3.5	<1.0	6	NA
MW-11	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-11	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA
MW-12	16-Dec-13	3.3	3.8	<1.0	6	NA
MW-12	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
MW-12	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA
MW-13	16-Dec-13	4.4	5.1	1.2	8	NA
MW-13	14-Mar-14	<1.0	<1.0	<1.0	<3.0	NA
WW-13	09-Sep-14	<2.0	<2.0	<2.0	<4.0	NA
T\A/ 1	14 Mar 14	<1.0	<1.0	<1.0	<2.0	ΝΔ
1 10-1	14-1VId[-14	<1.0	<1.0	<1.0	<3.0	INA
TW/_2	1/1-Mar-1/	<10	<10	<10	<3.0	NΔ
1 44-2	14-10101-14	1.0	×1.0	×1.0	\ 3.0	

Notes: <

Analyte not detected above listed method limit

μg/L NA Micrograms per liter (ppb)

Not analyzed

Figures





















Appendix A.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

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

Project:	Groundwater Sampling	Project No.: AES 110904
Site:	Enterprise Field Services, LLC	Date: 3/14/14
Location:	Lateral 6C	Time:
Tech:	LL/JS	Form:

	Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MVX	6		18.21		24.96
_ -	<u> </u>		11.21		<u>15.85</u>
. -	7		18.13		26.22
	<u>り</u>	·/	19.03		25.42
, -	1 8 1		14.53		
V,	12		15.27		
` -	13		19.63		24.85 1° well
~ _	A (\ '		14.82		20.84' i' well
_	4		15.14		23.40
ŀ	3		15.39		25.60
Ļ	10		14.63		20.85 1" Well
-	\$2	۸۶ ^۰	15.89'		24.61
	\$,	~			
ŀ	1	15.35	15.36	0.01	
ļ					
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1					

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

MONITORING WELL SAMPL	ING RECO)RD	Animas Environmental Services								
	/ 1										
	/-T	-	Tel (FOF) FCA 2204 Fey (FOF) 224 2022								
			Tel. (505) 564-2281 Fax (505) 324-2022								
Site: Groundwater Sampling	~		Project No.: <u>AES 110904</u>								
Drainet: Lateral CC			Date:								
Project: Lateral 6C			Arrival Time:								
Sampling Technician:			Air Temp:								
Wall Diamator (in)	ge	-	1.U Tatal M/	J.C. Elev. (ft): 557	9.73						
Initial D T W (ft):	Times	-	lotal w	ell Depth (ft):	a of all walls)						
Confirm D.T.W. (ft):	- Time:	6		_(taken at initial gaugin _(taken prior to pyraine	ig of all wells)						
Final D T W (ft):	 Time:			_(taken after cample co	laction) 626						
If NAPL Present: D.T.P.: 16.39		15.36	Thi	ckness:	re: 15 1426						
	ity Paramete	ers - Rec	orded D	uring Well Purging							
Temp Conductivity	DO		ORP	PURGED VOLUME							
Time (deg C) (uS) (mS)	(mg/l)	~ U	(m)()	(coo rovorso for cole)	Notos/Observations						
	(1118/ 11)	<u> </u>		(see reverse for calc.)	Notes/Observations						
					: 						
Analytical Parameters (includ	le analysis n	nethod a	nd num	her and type of sample	containers)						
		(3×40m)			containersy						
	DILA OUZID	(5840111									
Disposal of Pur	ged Water:		Into 5	55 Gallon Drum for Prop	er Disposal						
Collected Samples Stored on Ice	e in Cooler:			Yes							
Chain of Custody Record	Complete:			Yes							
Analytical L	.aboratory:	ALS Envi	ronment	al Laboratory							
Equipment Used During Sampling	Keck Water	Level or	Keck Int	terface Level VSI Water	Quality Meter						
and Pe	ristaltic Pum	10 10			County Mictui						
Notes/Comments:		· 1-									
1.42											
4.30 all- revised: 08/10/09		****									
MON		VELL SAMPI		ORD	Animas Environmental Services						
---	---	-------------------------	---------------	-----------	---	---	--------------------	--	--	--	--
NA		Γ//\A/		~							
ivion	ntor well No:		-2		624 E. Comanche, Farmington NM 87401						
Citor	Groundwate	r Compline			Tel. (505) 564-2281 Fax (505) 324-2022						
Site:	Enterprise Fi		•		Project No.: AES 110904						
Droject:	Lateral 6C	eld Services, LLC	•		Date: 3/14/2014						
Samplin	a Technician	417	<u> </u>		- '	Arrival Time: <u>7600</u>	V6/5 Sample				
Duro	ig Technician.	/ J	<u>></u>		- то	Air Temp: $\underline{-90}$					
Well	Diameter (in):	2	с		Total We	$\begin{array}{c} \text{Joint Liev. (ii).} \\ \text{Joint Liev. (iii).} \\ \text{Joint Liev. (iiii).} \\ \text{Joint Liev. (iii).} \\$					
Initi	al D.T.W. (ft):	15.00	Time			(taken at initial aquain)	a of all wells)				
Confir	m D.T.W. (ft):	<u> </u>	Time:		(taken at initial gaugin (taken prior to puraina	well)					
Fin	al D.T.W. (ft):	16.30	Time:	1612		(taken after sample co	llection)				
If N	NAPL Present:	D.T.P.:	D.T.W		Thic	kness: Tim	e:				
Water Quality Parameters - Recorded During Well Purging											
	Temp	Conductivity	DO		ORP	PURGED VOLUME					
Time	(deg C)	(μS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observations				
1604	14.63	3.570	3.26	7.37	-53.2	leup	Clea H20				
1607	14.81	3.2.87		7.35	-173.2	1.0 rel	slight o dor				
_					2.0 gal.	gRAY H20					
16/1	14.83	1.899		-222.4	30 and	slight a dux					
11015	15.00	3.1624	2.1.2	2136	420 aul	Aray Hap					
			a or	1.07	- ,	1.20 0/00	9/1X7 /120				
ŀ	Analytical Para	ameters (includ	e analysis ı	method a	nd num	per and type of sample	containers)				
		E	3TEX 8021E	3 (3x40ml	. VOA w/	' HCL)					
	Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal										
Col	llected Sample	es Stored on Ice	in Cooler:		Yes						
	Chain of C	Custody Record	Complete:	Yes							
	Analytical Laboratory: ALS Environmental Laboratory										
Equip	ment Used Du	erface Level, YSI Water	Quality Meter								
		and Per	istaltic Pur	np		· · · · · · · · · · · · · · · · · · ·					
Notes/Com	ments:										
8-73	Ho colu	mn									
1.47	1.47 Hzu volume										
4-30	gul. to 1	be pind									
revised: 08	8/10/09	<u>r 0 (</u>	*****								

MON	MONITORING WELL SAMPLING RECORD Animas Environmental Services												
Moi	nitor Well No:	MW	/-3		6	24 E. Comanche, Farmi	ngton NM 87401						
						Tel. (505) 564-2281 Fax	(505) 324-2022						
Site	: Groundwate	r Sampling				Project No.: AES 1109	04						
Location	: Enterprise Fi	ield Services, LLC	2		-	Date: 3/14/	2014						
Project	: Lateral 6C	/			-	Arrival Time: 1540	(1556 Smpt Z						
Sampli	ng Technician	:U/J	S		_	Air Temp: <u>52° F</u>							
Pur	ge / No Purge	: ['] Purg	je		T.C	D.C. Elev. (ft): 5579	9.52						
Well	Diameter (in)	2			Total We	ell Depth (ft):25.	45						
Init	ial D.T.W. (ft):	15.39	Time:	·		(taken at initial gaugin	g of all wells)						
Confir	m D.T.W. (ft):	15.38	Time:	15.4	0	(taken prior to purging	well)						
Fir	nal D. I.W. (ft):	16.62	Time:		· /	(taken after sample co	llection)						
IT	NAPL Present	: D.I.P.:	D.1.W	••	Thic	ckness: Tim	e:						
Water Quality Parameters - Recorded During Well Purging													
	Temp	Conductivity	DO		ORP	PURGED VOLUME							
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations						
1543	13.69	5.174	2.73	7.16	- 85.6	1. cup							
1545	13.75	5.228	2.31	7.06	-80.4	1.0 6.	It Town HID						
1548	13.85	5.051	1.78	16.97	-111.1	2.0 m	Slight OdoRR)						
1551	1398	5.080	1.71	6.910	-105.7	3.0 00							
1553	14.07	4.764	7.33	10.98	-1020	And	1+ Ta, H+0						
1651	1473	2572	2.55	702	-702.U	7.0 gal	"Ind I'll D						
1250	11.65	3.525		120		- 3.0 gab	Murky M2						
	Analytical Par	ameters (includ	e analysis	method a	nd numl	per and type of sample	containers)						
	-			. /		(1101)							
			BIEX 8021E	3 (3x40ml	_ VOA w/	HCL)							
		Disposal of Pur	ged Water:		Into 5	5 Gallon Drum for Prop	er Disposal						
Collected Samples Stored on Ice in Cooler: Yes													
Chain of Custody Record Complete: Yes													
		Analytical L	aboratory:	ALS Envi	ronment	al Laboratory							
Equip	ment Used Du	uring Sampling:	Keck Wate	r Level or	Keck Int	erface Level, YSI Water	Quality Meter						
		and Per	ristaltic Pur	np									
lotes/Com	ments:			····									
		-				<u>,</u>							
Poula a de A	9/40/00												
revised: 0	0/10/09												

Monitor Well No: MW-4 624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022 Site: Groundwater Sampling Project No: AES 110904 Project No: AES 110904 Location: Enterprise Field Services, LLC Project No: AES 110904 Sampling Technician: L// J S Arrival Time: /519 (/r.538 Samplet Service) No Purge Purge No Purge Purge No Purge Purge Total Well Depth (ft): ZS.90 Initial D.T.W. (ft): 15.10 Time: //f.200 Initial D.T.W. (ft): 15.10 Time: //f.200 If NAPL Present: D.T.W.: Time: //f.200 Water Quality Parameters - Recorded During Well Purging Time: //f.200 Notes/Observations 152.3 /f. · · /2 2//// 7.7 7.37 40.3.5 // aug // aug// aug	MON		VELL SAMPL	ING RECO	ORD		Animas Environme	ntal Services
Tel. (505) 564-2281 Fax (505) 324-2022Site: Groundwater SamplingLocation: Enterprise Field Services, LLCProject: Lateral 6CSampling Technician: $\lfloor L / \int S$ Sampling Technician: $\lfloor L / \int S$ PurgePurgePurgePurgePurgeTotal Well Depth (ft): 523 SampleWell Diameter (In): 2Total Well Depth (ft): 523 (taken at initial gauging of all wells)Confirm D.T.W. (ft): (f, S, I) Time: (f, S, S) (taken at initial gauging of all wells)Conductivity DOMater Quality Parameters - Recorded During Well PurgingWater Quality Parameters - Recorded During Well PurgingTime: $(f, S, S) (J, J)$ Mater Quality Parameters - Recorded During Well PurgingVater Quality Parameters - Recorded During Well PurgingTime: $(f, S, S) (J, J)$ Mater Quality Parameters - Recorded During Well PurgingTime: $(f, S, S) (J, J)$ Mater Quality Parameters - Recorded During Well PurgingTime: $(f, S, S) (J, J)$ Mater Quality Parameters - Recorded During Well PurgingTime: $(f, S, S) (J, S) (M, S) (mg/L)Purge (J, S) (M, S) (M, S) (M, S) (M, S) (M, C)$	Mor	nitor Well No:	MW	-4		6	24 E. Comanche. Farmi	ngton NM 87401
Site: Groundwater Sampling Project: All of the second secon					_		Tel. (505) 564-2281 Fax	(505) 324-2022
Location: Enterprise Field Services, LLC Date: $3/14/72914/$ Project: Lateral 6C Arrival Time: $75/7$ (533 Service Arrival Time: $75/7$ (733 Service Arrival Time: $75/7$ (737 Total Well Depth (11): $75/7$ (733 Service Arrival Time: $75/7$ (737 Total Well Depth (11): $75/7$ (737 Total Well Depth (11): $75/7$ (737 Total Well Depth (11): $75/7$ (737 Total Well Depth (11): $75/7$ (737 Total Well Depth (11): $75/7$ (737 Total Well Purging Well) (11 Final D.T.W. (11): 77 Total 737 Total Well Purging Well Purging Well Purges Volume (deg C) (μ S) (mS) ($mg/1$) pH (mV) (see reverse for calc.) Notes/Observations (1523 ($1.4^{\circ}/2$ 2.111 7.7 7.37 Total $1.4^{\circ}/2$ 2.0 gal . $Gerr Arrival Time: 152/4 (1.38 T 4.094 1.39 Total 713 7.13 7.13 7.13 2.0 gal. Gerr Arrival Time: 152/2 (1.375 4.024 1.20 1175/0 1.0 gal. Sr_{SV} Bosen / 0.20 (1533 (1.42 2.734 1.34 7.13 7.13 7.13 7.13 2.0 gal. Gerr Arrival Time: 1533 (1.42 2.734 1.34 7.13 7.13 7.13 2.0 gal. Gerr Arrival Time: 1533 (1.42 3.734 1.34 7.13 7.13 7.13 2.0 gal. Gerr Arrival Time: 1533 (1.42 3.734 1.42 7.13 7.13 7.13 2.0 gal. Gerr Arrival Time: 1.533 (1.42 3.734 1.42 7.13 7.13 7.13 2.0 gal. Gerr Arrival Time: 1.533 (1.42 3.734 1.42 7.13 7.13 2.0 gal. Gerr Arrival Time: 1.533 (1.42 2.11 2.533 (1.42 2.11 2.533 (1.42 2.11 2.533 2.533 (1.42 2.11 2.533 2.533 2.533 (1.42 2.533 $	Site	: Groundwate	r Sampling				Project No.: AES 1109	04
Project: Lateral 6C Arrival Time: $75/7$ (5.33) Sample Sampling Technician: LV / 0.5 Arrival Time: $75/7$ (5.33) Sample Purge / No Purge: To.C. Elev. (ft): 52.97 To.C. Elev. (ft): 52.97 Well Diameter (in): 2 To.C. Elev. (ft): 52.97 To.C. Elev. (ft): 52.97 Confirm D.T.W. (ft): $5.97.4$ Time: 15.20 (token point to purging well) Final D.T.W. (ft): $7.97.4$ Time: 15.20 (token ofter sample collection) If NAPL Present: D.T.W.: Time: Time: Time: Time: 15.25 14.97 14.92 Time (deg C) (µ) (µS) (mg/l) pH (mV) (see reverse for calc.) Notes/Observations 15.25 13.75 4.92 1.347 7.37 74.33 3.0 $gal.$ 51.947 64.64 152.8 13.75 4.924 1.347 71.37 74.33 3.0 $gal.$ $clevet M/2.0$ 153.3 (4.22) 3.734 1.347 71.3	Location	: Enterprise Fi	eld Services, LLC	2	******	_	Date: 3/14	120/04
Sampling Technician: U/DS Air Temp: $\frac{92^{\circ}}{52^{\circ}}$ Purge / No Purge: Purge To.C. Elev. (ft): $\frac{52^{\circ}}{52,9,0}$ Initial D.T.W. (ft): 15.10° Time: $(taken at initial gauging of all wells)$ Confirm D.T.W. (ft): 15.10° Time: $(taken at initial gauging of all wells)$ Final D.T.W. (ft): 15.10° Time: $(taken at initial gauging of all wells)$ If NAPL Present: D.T.W.: Thickness: Time: Time: Vater Quality Parameters - Recorded During Well Purging Time (deg C) (µS) (mS) (mg/L) pH (mV) (see reverse for calc.) Notes/Observations 152.3 $H f/2$ 2.111 $7.^{\circ}$ 7.37 $40.3.5$ 1.40° 1.50° 1.50° 1.60° 1.60° 1.52° 1.52° 1.52° 1.52° 1.52° 1.60° 1.0° 2.0° 0.0° 1.52°	Project	: Lateral 6C					Arrival Time: 1519	(1533 Sample
Purge / No Purge: Purge Total Well Depth (ft): 23,90 Initial D.T.W. (ft): 15:14 Time: 123,90 Isital D.T.W. (ft): 15:14 Time: 1520 If NAPL Present: D.T.W.: Time: 1520 If NAPL Present: D.T.W.: Time: 1520 If NAPL Present: D.T.W.: Thickers: Time: Value Quality Parameters - Recorded During Well Purging Time (deg c) (µS) (mg/L) pH Immodel (deg c) (µS) (mS) (mV) (see reverse for calc.) Notes/Observations 152.3 /1.4/2 2.1/1 7.4 7.37 40.3.5 1.40 Clear ALee 152.4 13.87 U.099 1.889 7.20 125.0 1.0 gal. Sigkt Suce./o.ke 1530 (3.76 4'.039 1.34 71.3 748.3 3.0 gal. Clear Alee 1533 (4'.22 3.73L 1.42 7.15 10.7 4'.30 gal. Clear Alee 1533 (4'.22 3.73L 1.42 <t< td=""><td>Sampli</td><td>ng Technician</td><td>LL/JS</td><td></td><td></td><td>_</td><td>Air Temp: <u>52</u>°</td><td>1 F</td></t<>	Sampli	ng Technician	LL/JS			_	Air Temp: <u>52</u> °	1 F
Weil Diameter (in): 2 Total Well Depth (ft): /_/	Pur	ge / No Purge	Purg	е	_	T.C	D.C. Elev. (ft): 558	0.36
Initial D. I.W. (ft): 15:14 Ime: 15:20 (taken artinitial aggings of all wells) Final D. T.W. (ft): 16:35 Time: 15:20 (taken artinitial aggings of all wells) If NAPL Present: D.T.P.: D.T.W.: Time: Time: 15:35 Water Quality Parameters - Recorded During Well Purging Water Quality Parameters - Recorded During Well Purging Notes/Observations 15:2:3 14:5/2 2.111 7:7 7:37 r03:5 1 emp Clean. (A.e. 15:2:3 14:5/2 2.111 7:7 7:37 r03:5 1 emp Clean. (A.e. 15:2:3 14:5/2 2.111 7:7 7:37 r03:5 1 emp Clean. (A.e. 15:2:4 13:8:7 4:02(4 1:70 7:18 72:17 2:0 gull. clean. (A.z.O 15:3:0 13:75 4:0.24 1:74 7:15 7:01.7 4:30 gall. clean. (A.z.O 15:3:3 14:22 3:73:4 1:42 7:15 7:01.7 4:30 gall. clean. (A.z.O 15:3:3 14:22 3:73:4 1:42 7:15 <td< td=""><td>Well</td><td>Diameter (in):</td><td>2</td><td></td><td></td><td>Total We</td><td>ell Depth (ft): 23</td><td>90</td></td<>	Well	Diameter (in):	2			Total We	ell Depth (ft): 23	90
Inter 1820 (taken pilot to brain well) Final D.T.W. (f): 16.35 Time: 15.35 Time: 15.35 Water Quality Parameters - Recorded During Well Purging Water Quality Parameters - Recorded During Well Purging Time (deg C) (µS) (mS) (mg/L) pH (mV) (see reverse for calc.) Notes/Observations 152.3 /4 - 4/2 1.5.9 A 1.9.2 1.9.2 <t< td=""><td>Confir</td><td>m D T W. (ft):</td><td>15.14</td><td>- Time:</td><td></td><td>20</td><td>_(taken at initial gaugin </td><td>ig of all wells) well)</td></t<>	Confir	m D T W. (ft):	15.14	- Time:		20	_(taken at initial gaugin 	ig of all wells) well)
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time: Water Quality Parameters - Recorded During Well Purging Time (deg C) (µS) (DO ORP PURGED VOLUME 152:3 /4. 4/2 2.111 7.* 7.37 +03.5 ap c.lam. Alko 152:4 [3.37 4.099 1.89 7.20 175.0 1.0 gal. SitsAt Alacen /o de 152:8 (3.75 4.024 1.20 7.18 +721.7 2.0 g gal. clear. Alko 153:0 /3.90 4.037 1.34 7.15 +01.7 4.0 gal. clear. Alko 153:3 14.22 3.734 1.42 7.15 +01.7 4.30 gal. clear. Alko 153:3 14.22 3.734 1.42 7.15 +01.7 4.30 gal. clear. Alko 153:3 14.22 3.734 1.42 7.15 +01.7 4.30 gal. clear. Alko 153:3 14.22 3.734 1.42 1.42 -1.5 +01.7 4.30 gal. clear. Alko	Fin	nal D.T.W. (ft):	16.35	- Time:	153	5	(taken after sample co	llection)
Water Quality Parameters - Recorded During Well Purging Time Conductivity D0 ORP PURGED VOLUME 1/52.3 /H. '/2 2.111 7.* 7.37 #03.5 /	IfI	NAPL Present:	D.T.P.:	D.T.W.	.:	Thic	ckness: Tim	e:
Temp Conductivity DO ORP PURGED VOLUME Time (deg C) (µS) (mS) (mg/L) pH (mV) (see reverse for calc.) Notes/Observations 152.3 /4. 9/2 2.111 7. ~ 7.37 40.5.5 ewp c.leanAlso 152.4 13.87 (µ, 0.99 1.89 7.20 125.0 .0 epl. Stigst-f_Basen/o etc. 152.8 13.75 (4.02.4 1.20 7.18 7/2.7 2.0 gel. cleanN zo 153.0 13.70 (4.039 1.34 7/3 7/83 3.0 gal. cleanN zo 153.3 19.22 3.734 1.42 7.15 7/01.7 4.30 gal. cleanN zo 153.3 19.22 3.734 1.42 7.15 7/01.7 4.30 gal. cleanN zo 153.3 19.22 3.734 1.42 1.42 1.430 1.430 1.430 1.430 1.430 1.430 1.430 1.430 1.430 1.430 1.430 <td< td=""><td></td><td></td><td>Water Quali</td><td>ty Paramet</td><td>ers - Rec</td><td>orded Du</td><td>uring Well Purging</td><td></td></td<>			Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging	
Time (deg C) (μS) (mS) (mg/L) pH (mV) (see reverse for calc.) Notes/Observations 152.3 1/4. 1/2 2.111 7. * 7.37 +03.5 1/40 C/cem		Temp	Conductivity	DO		ORP	PURGED VOLUME	
1523 14.4/2 2.111 7.7 7.37 403.5 1 exp clear_Hze 152b 13.87 4.099 1.89 7.20 125.0 1.0 gal. Stight Sheen for 152b 13.75 4.024 1.20 7.18 721.7 2.0 gal. clear_Nzp 1530 13.75 4.039 1.34 7.13 718.3 3.0 gal. clear_Nzp 1533 14.22 3.734 1.42 7.15 701.7 4.30 gal. clear_Hzp 1533 14.22 3.734 1.42 7.15 701.7 4.30 gal. clear_Hzp 1533 14.22 3.734 1.42 7.15 701.7 4.30 gal. clear_Hzp 1534 1.422 3.734 1.42 7.15 701.7 4.30 gal. clear_Hzp 1535 14.22 3.734 1.42 7.15 701.7 4.30 gal. clear_Hzp 1535 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1530 1.42 1.42 1.42 1.42 1.42 <td>Time</td> <td>(deg C)</td> <td>(µS) (mS)</td> <td>(mg/L)</td> <td>pН</td> <td>(mV)</td> <td>(see reverse for calc.)</td> <td>Notes/Observations</td>	Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations
1526 13.87 4.099 1.89 7.20 115.0 1.0 gal. Start Baen/ob 1528 13.75 4.024 1.20 7.18 721.7 2.0 gal. clere. Map 1530 13.70 4.039 1.34 7.13 718 3.0 gal. clere. Map 1533 14.22 3.734 1.42 7.15 101.7 4.30 gal. clere. Map 1533 14.22 3.734 1.42 7.15 101.7 4.30 gal. clere. Map 1533 14.22 3.734 1.42 7.15 101.7 4.30 gal. clere. Map 1534 14.22 3.734 1.42 7.15 101.7 4.30 gal. clere. Map 1535 14.22 3.734 1.42 7.15 101.7 4.30 gal. clere. Map 1535 14.22 3.734 1.42 7.15 101.7 4.30 gal. clere. Map 1535 1.42 1.42 1.42 1.42 1.42 1.42 1.42 1536 1.54 1.42 1.42 1.42 1	1523	14.42	2.///	7.*	7.37	-103.5	1 cup	cheen H20
1528 13.75 4.024 1.20 7.18 721.7 2.0 gul. clar. M2p 1530 13.90 4.039 1.3b 713 183 3.0 gul. clar. M2p 1533 14.22 3.73b 1.42 7.15 101.7 4.30 gul. clar. M2p 1533 14.22 3.73b 1.42 7.15 101.7 4.30 gul. clar. M2p 1533 14.22 3.73b 1.42 7.15 101.7 4.30 gul. clar. M2p 1534 14.22 3.73b 1.42 7.15 101.7 4.30 gul. clar. M2p 1535 14.22 3.73b 1.42 7.15 101.7 4.30 gul. clar. M2p 1536 1.42 1.42 1.42 1.42 1.430 gul. clar. M2p 1536 1.42 1.42 1.42 1.42 1.430 gul. clar. M2p 1537 1.42 1.42 1.42 1.430 gul. 1.440 gul. 1.440 gul. 1538 1.42 1.42 1.42 1.440 gul. 1.440 gul. 1.440 gul.	1526	13.87	4.099	1.89	7.20	125.0	1.0 gal.	Slight Rusen / O de
1530 13.70 4.039 1.34 7.13 7.183 3.0 gal. dem K120 1533 14.22 3.734 1.42 7.15 101.7 4.30 gal. Clear H20 1533 14.22 3.734 1.42 7.15 101.7 4.30 gal. Clear H20 1533 14.22 3.734 1.42 7.15 101.7 4.30 gal. Clear H20 1533 14.22 1.42 1.42 1.5 101.7 4.30 gal. Clear H20 1533 1.42 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1533 1.42 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1533 1.5	1528	13.75	4.02Le	1,20	7.18	-121.7	2.0 gal.	der NZP
1533 14,22 3.734 1.42 7.15 101.7 41.30 gal. Clear, Hzo 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1530	13.70	4.039	1.34	7.13	-118.3	3.0 gal	den NZO
Analytical Parameters (include analysis method and number and type of sample containers) BTEX 8021B (3x40mL VOA w/ HCL) BTEX 8021B (3x40mL VOA w/ HCL) Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump Iotes/Comments:	1533	14.22	3.734	1.42	7.15	-101.7-	4.30 gal.	Jean HZO
Image: Stored on Ice in Cooler: Yes Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump otes/Comments: Image: Store Stor						· · · ·		
Image: Stored on Ice in Cooler: Yes Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump Iotes/Comments: Iotes/Comments:								
Image: Stored on Ice in Cooler: Yes Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump Iotes/Comments: Iotes/Comments:								
Image: State of the state					<u>.</u>			
Analytical Parameters (include analysis method and number and type of sample containers) BTEX 8021B (3x40mL VOA w/ HCL) BTEX 8021B (3x40mL VOA w/ HCL) Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump								
Analytical Parameters (include analysis method and number and type of sample containers) BTEX 8021B (3x40mL VOA w/ HCL) BTEX 8021B (3x40mL VOA w/ HCL) Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump								
Analytical Parameters (include analysis method and number and type of sample containers) BTEX 8021B (3x40mL VOA w/ HCL) Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump Iotes/Comments: Into State Complete:								
Analytical Parameters (include analysis method and number and type of sample containers) BTEX 8021B (3x40mL VOA w/ HCL) Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump lotes/Comments:								
Analytical Parameters (include analysis method and number and type of sample containers) BTEX 8021B (3x40mL VOA w/ HCL) Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump otes/Comments:		Analytical Day				<u> </u>		
BTEX 8021B (3x40mL VOA w/ HCL) Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump		Analytical Par	ameters (Includ	e analysis i	method a	and num	per and type of sample	containers)
Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump				BTEX 8021E	3 (3x40m	L VOA w/	/ HCL)	
Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump Totes/Comments:							Manifesti I. Maria da Indonesia da Santa ang Panganana ang Panganana ang Panganana ang Panganana ang Panganana	
Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump								
Collected Samples Stored on Ice in Cooler: Yes Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump Hotes/Comments:	6		Disposal of Pure	ged water:		Into 5	5 Gallon Drum for Prop	ber Disposal
Chain of Custody Record Complete: Yes Analytical Laboratory: ALS Environmental Laboratory Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump and Peristaltic Pump	Co	niected Sampi	es Stored on Ice	in Cooler:			Yes	
Analytical Laboratory: <u>ALS Environmental Laboratory</u> Equipment Used During Sampling: <u>Keck Water Level or Keck Interface Level</u> , YSI Water Quality Meter and Peristaltic Pump otes/Comments:		Chain of (ustody Record	complete:			Yes	
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Peristaltic Pump otes/Comments:			Analytical L	aboratory:	ALS Envi	ronment	al Laboratory	
and Peristaltic Pump otes/Comments:	Equip	ment Used Di	Iring Sampling:	Keck Wate	r Level o	r Keck Int	ertace Level, YSI Water	Quality Meter
otes/Comments:			and Pe	ristaltic Pun	np			
	otes/Com	nments:						
	4.70	i mp	*****					
H_{12} and	revised: 0	8/110/09						

Monitor Well No:MW-5624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022Site:Groundwater Sampling Location:Project No.: AES 110904 Date: $3/14/2014$													
Site:Groundwater SamplingProject No.:AES 110904Location:Enterprise Field Services, LLCDate: $3/14/2014$													
Site: Groundwater Sampling Project No.: AES 110904 Location: Enterprise Field Services, LLC Date: $3/14/2014$													
Location: Enterprise Field Services, LLC Date: 3/14 / 2014	Site: Groundwater Sampling Project No.: AES 110904												
Location: Enterprise Field Services, LLC Date: 3/14 / 2014													
Project: Lateral 6C Arrival Time: 1245 (1303 Same	e												
Sampling Technician: $\sqrt{5}/22$ Air Temp: $51^{\circ}F$	\rightarrow												
Purge / No Purge: Purge T.O.C. Elev. (ft): 5583.53													
Well Diameter (in):2Total Well Depth (ft): 25.42													
Initial D.I.W. (ft): <u>79.03</u> Time: <u>(taken at initial gauging of all wells)</u>													
Einal D T W (ft): $\frac{79.62}{100}$ Time: $\frac{7296}{100}$ (taken prior to purging well)													
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:													
Water Quality Parameters - Recorded During Well Purging													
Temp Conductivity DO ORB PURGED VOLUME													
Time $(\deg C)$ (uS) (mS) (mg/l) nH $(m)/l$ (see reverse for calle). Notes (Observation	<u> </u>												
1260 1214 1102 720 215 5^{4} 0 1214 1102	15												
755 1275 3.375 741 122 10 all Redaish H20	_												
1257 13.85 3.439 7.56 -181.41 2.2 and 14 Time													
1259 13.75 24103 755-171.0 2.2 and													
1759 17.15 -467 1.55-116.9 30 gal.													
1303 13.67 3.540 251 7.45 -180.6 3.25 gul. It Tom													
	1												
Analytical Parameters (include analysis method and number and type of sample containers)	-												
Analytical ratameters (include analysis method and number and type of sample containers)													
BTEX 8021B (3x40mL VOA w/ HCL)													
Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal													
Collected Samples Stored on Ice in Cooler: Yes													
Chain of Custody Record Complete: Yes													
Analytical Laboratory: ALS Environmental Laboratory													
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter													
and Peristaltic Pump													
Notes/Comments:													
3.14 gal. purged													

MON	ITORING V	VELL SAMPL	ING RECO	ORD	Animas Environmental Services					
Mor	nitor Well No:	MW	-6		624 E. Comanche, Farmington NM 87401					
					Tel. (505) 564-2281 Fax (505) 324-2022					
Site	Groundwate	r Sampling			Project No.: AES 110904					
Location	Enterprise Fi	eld Services, LLC			-	Date: 3	14	12014		
Project:	Lateral 6C	,			Arrival Time:	100	(1144 samplature)			
Samplir	ng Technician:	LL/JS			_	Air Temp:				
Purg	ge / No Purge:	Purg	e	-	т.о).C. Elev. (ft):	558	2.22		
Well	Diameter (in):	2	-	-	Total We	ell Depth (ft):	24.90	2 H.		
Initi	al D.T.W. (ft):	18.71	Time:	930		(taken at initial <u>c</u>	augir	ng of all wells)		
Confir	m D.I.W. (ft):	18.21	Time:	931		(taken prior to p	urging	y well)		
FIN	API Procont:			•	Thic	(laken ajter sam	pie co Tim			
	VAFL Flesent.	D.1.F	D.1.vv.			.kness:	1 1 1 1			
		Water Quali	ty Paramet	orded Du	Iring Well Purgin	g				
	Temp	Conductivity	DO		ORP	PURGED VOLU	IME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for	calc.)	Notes/Observations		
1104	15.10	3.108	0.91e	7.43	2531	I. L		Subjer oder		
1118	15.19	3,194	0.43	-39.0	laal.		Gray 1420			
11310	15.50	3.587	0.52	-297.0	2 gol.		, , , , , , , , , , , , , , , , , , , ,			
1146	14.66	3.756		-312.3	3.5 9	l	son H20			
l							<i>0</i>			
"										
					ļ					
	Analytical Par	ameters (includ	e analysis ı	method a	nd num	ber and type of s	ample	containers)		
			BTFX 8021F	3 (3y40m						
BTEX 8021B (3x40mL VOA w/ HCL)										
		Disposal of Pure	ged Water:		Into 5	5 Gallon Drum fo	or Proi	per Disposal		
Co	llected Sampl	es Stored on Ice	in Cooler:		Yes		· · · · · · · · · · · · · · · · · · ·			
	Chain of (Custody Record	Complete		Yes					
		Analytical I	ronment	allaboratory						
Fauin	ment liced Du	Iring Sampling	Keck Wate	r Kerk Int	terface Level VSI	Wate	r Quality Meter			
Ldaib		and Pe	ristaltic Pur		LETTALE LEVEL, TOI	vvale				
Notes/Com	menter	unure								
NULES/ CON	ments									

revised: 0	8/10/09									

MON	IITORING V	VELL SAMPL	ING RECO	ORD	Animas Environmental Services				
Mon	utor Well No•	MW	-7		624 E. Comanche, Earmington NM 87401				
			-	-	Tel. (505) 564-2281 Fax (505) 324-2022				
Site:	Groundwate	Sampling			1	Project No.: AES 1109	04		
Location:	Enterprise Fig	eld Services, LLC			-	Date: 3/11/7	014		
Project:	Lateral 6C				-	Arrival Time: 12/8	1238 Sangle Tu		
Samplin	ng Technician:	11/10	<u> </u>		-	Air Temp: 5/ " /=			
Purg	e / No Purge:	/ Purg	je		- т.с	D.C. Elev. (ft): 558	2.24		
Well [Diameter (in):	2			Total We	ell Depth (ft): Re	22		
Initi	al D.T.W. (ft):	18.73	Time:			_(taken at initial gaugin	ng of all wells)		
Confir	m D.T.W. (ft):	18.72	Time:	12:23	2	_(taken prior to purging	ı well)		
Fin	al D.T.W. (ft):	7.85	Time:		_(taken after sample co	llection)			
If N	NAPL Present:	D.T.P.:	D.T.W.	••	Thio	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		
1224	14.73	3.880		7.72	-298.4	1 st Bailen	gray odur		
1230	14.52	3.821	1.68	7.50	- 294.5	1.0 Gel.	may the		
1233	14.35	2.411		7.43	-283	2 Juail	0 1		
1235	14.29	3.685	12:81	7.45	- 284	+ 3.0 GVD	gray Hzo		
1237	14.24	3914	1.44	7.47	-283 8	3.70	man plad		
10 2 0		<u> </u>			007.0	Oilo yuni	going to co		
<u></u>						· · · · · · · · · · · · · · · · · · ·			
						-			
ŀ	Analytical Para	ameters (includ	le analysis r	method a	nd num	ber and type of sample	containers)		
			BTEX 8021E	3 (3x40ml	L VOA w	/ HCL)			
						MMM M Manimu and a second and a s			
		441-141-14-14-14-14-14-14-14-14-14-14-14							
		Disposal of Pur	ged Water:		Into 5	5 Gallon Drum for Prop	per Disposal		
Col	llected Sample	es Stored on Ice	e in Cooler:			Yes			
	Chain of C	ustody Record	Complete:			Yes			
		Analytical L	aboratory:	ALS Envi	ronment	al Laboratory			
Fauin	ment Used Du	ring Samnling.	Keck Wate	r Level or	Kerk Int	terface level VSI Water	Quality Meter		
rdaibi		and Pe	ristaltic Pun	nn		terrate Level, 151 vvalel			
lotos/Carr	monto			<u>יי</u> א					
iotes/com	ments:								
						an a			
	Λ								
3.67	Jul-								
cevised: 08	s/ 1+0 /09						ł		

MON	ITORING V	VELL SAMPL	ING RECO	ORD	Animas Environmental Services							
Mon	nitor Well No:	MW	-8		624 E. Comanche, Farmington NM 87401							
			-		Tel. (505) 564-2281 Fax (505) 324-2022							
Site	Groundwate	r Sampling			Project No.: AES 110904							
Location:	Enterprise Fi	eld Services, LLC	2		-	Date: 3/14/2014						
Project:	Lateral 6C				- Arrival Time: 12/1/ (1329 Sandle To							
Samplir	ng Technician:	41/55	5			Air Temp: 51 ° P						
Purg	ge / No Purge:	Purg	e		- т.с	D.C. Elev. (ft): 557	7.81					
Well I	Diameter (in):	2		_	Total We	ell Depth (ft): 24.2						
Initi	al D.T.W. (ft):	14.53	Time:			(taken at initial gaugin	g of all wells)					
Confir	m D.T.W. (ft):	14.52	Time:	1313		_(taken prior to purging	well)					
Fin	al D.T.W. (ft):	14.85	Time:	1328		_(taken after sample co	llection)					
If N	NAPL Present:	D.T.P.:	D.T.W	•••	Thio	ckness: Tim	e:					
Water Quality Parameters - Recorded During Well Purging												
	Temp	Conductivity	DO		ORP	PURGED VOLUME						
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations					
1317	15.0 h	2,030		7.63	-181.7	1st Baulie	"c/m d g" 1/20					
1321	14.78	3.503	2.25	7.57	-186.6	20 gal.						
1324 14.84 3.524 1.62 7.53 201.4 3.0 gue												
1327 14.97 3.515 1.44 7.51 -195.0 4.0 april. Chay ish Hzo												
1329 15.03 3.563 1.35 7.47 209.8 4.75 gal.												
-												
		······································										
	Analytical Par	ameters (includ	e analysis i	method a	and num	ber and type of sample	containers)					
			BTEX 8021E	3 (3v/0m			,					
	••••••••••••••••••••••••••••••••••••••		DILX 00211	5 (57-011								
		Disposal of Pur	ged Water:		Into 5	55 Gallon Drum for Prop	er Disposal					
Со	llected Sampl	es Stored on Ice	in Cooler:			Yes						
Chain of Custody Record Complete: Yes												
		Analytical L	aboratory:	ALS Envi	ronment	al Laboratory						
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level o	r Keck Int	terface Level, YSI Water	Quality Meter					
		and Pe	ristalitic Pu	mp								
lotes/Com	iments:											

4.75												
revised: 0	8/10/09											

MON	IITORING V	VELL SAMPL	NG RECO	ORD		Animas	Environme	ntal Services			
Mon	itor Well No:	MW	-9		6	624 F. Comanche, Farmington NM 87401					
			-	Tel. (505) 564-2281 Fax (505) 324-2022							
Site	Groundwater	Sampling			Project No.: AES 110904						
Location	Enterprise Fie	eld Services, LLC			-	D	ate: 3/14/	20 14 Sample			
Project:	Lateral 6C				- '	Arrival Ti	ime: 1153	P2/1 Time			
Samplir	ng Technician:	JS/LL			-	Air Te	mp: <u>5/°</u>				
Purg	ge / No Purge:	<u> </u>	e	T.C	.C. Elev.	(ft): 5582	2.48				
Well	Diameter (in):		Times	-	lotal We	ell Depth	(ft): 20.8	s of all walls			
Confir	m D T W (ft):	1731	Time	1151		(taken u	rior to puraina	y oj uli welisj well)			
Fin	al D.T.W. (ft):	1738	Time:	1210		(taken a	fter sample co	llection)			
Ifr	NAPL Present:	D.T.P.:	D.T.W.	•;	Thio	kness:	Tim	e:			
Water Quality Parameters - Recorded During Well Purging											
	Temp	Conductivitv	DO	Ī	ORP	PURG	ED VOLUME				
Time	(deg C)	(uS) (mS)	(mg/L)	рΗ	(mV)	see rev	verse for calc.)	Notes/Observations			
1151.	14.17	3505	192	7.85	1985	15	Balan	Claus H20			
1159	14.26	3 4155	1.13	768	-20 31	1.0	aul	Tan 1/20			
1202	14.02	2.435	1.38	7.58	-74	20	gas.	T Hoo			
17.05	1378	3.148	221	7.53	-194 0	30	gat.	The Now			
1609 13.18 3.499 d.21 1.03 -194.0 5.0 god. In the											
1208	13.81	2502	1.00	7.56	1975	7.0	gal.	1120			
1611	13.02	Q.218	1.67			9.5	gut.	Cm 11 200			
	·										
	Analytical Para	ameters (includ	e analysis ı	method a	nd num	ber and t	ype of sample	containers)			
			3TEX 8021E	3 (3x40ml	L VOA w	/ HCL)					
-		Disposal of Purg	ged Water:		Into 5	5 Gallon	Drum for Prop	per Disposal			
Со	llected Sample	es Stored on Ice	in Cooler:	Yes							
	Chain of C	Custody Record	Complete:	Yes							
	Analytical Laboratory: ALS Environmental Laboratory										
Equip	Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter										
		and Pe	ristalitic Pu	mp							
Notes/Com	iments:										
					"						

revised: 08/10/09

MON	NITORING V	VELL SAMPL	ING RECO	ORD		Animas Environme	ntal Services				
Mon	nitor Well No	MW-	10		624 E. Comancha, Earmington NIM 97401						
			10		Tel (505) 564-2281 Fax (505) 324-2022						
Site:	Groundwate	r Sampling			Project No.: AFS 110904						
Location:	Enterprise Fi	eld Services. LLC		Project No.: ALS 110904							
Project:	Lateral 6C			-	Arrival Time: 502	(1514 Sample					
Samplin	ng Technician:	LL/ JS		-	Air Temp: 52	OF Time					
Purg	ge / No Purge:	Purg	e	- т.с	T.O.C. Elev. (ft): 5577.80						
Well I	Diameter (in):	1		Total We	ell Depth (ft): 20.	83					
Initi	al D.T.W. (ft):	14.103	Time:		(taken at initial gaugin	g of all wells)					
Confir	m D.T.W. (ft):	14.62	Time:	1503		(taken prior to purging	ı well)				
Fin	al D.T.W. (ft):	14.95	Time:	151	7	(taken after sample co	llection)				
	NAPL Present:	D.T.P.:	D.T.W	••	Thic	ckness: Tim	e:				
Water Quality Parameters - Recorded During Well Purging											
	Temp	Conductivity	DO		ORP	PURGED VOLUME					
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations				
1508	14.69	5.114	1.09	7.35	-104.5	1 cup	clearHzo				
1510	14.33	5.076	0.87	7.33	-104.9	1/4 gal.					
1512	14.56	5.052	0.62	7.32	-103.1	.5 gal.	clear H20				
1514	14,54	5045	0.53	7.32	-102.1	.75 acl	It Tan HzO				
						······································					
			······								
A	Analytical Para	ameters (includ	e analysis r	nethod a	nd numl	per and type of sample	containers)				
		E	3TEX 8021E	3 (3x40ml	. VOA w/	/ HCL)					
	BTLA 8021B (SA40IIIL VOA W/ HCL)										
	Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal										
Col	llected Sample	es Stored on Ice	in Cooler:	Yes							
	Chain of C	ustody Record	Complete:		Yes						
		Analytical La	aboratory:	ronment	al Laboratory						
Equipr	ment Used Du	ring Sampling:	Keck Wate	Keck Int	erface Level YSI Water	Quality Meter					
		and Per	istalitic Pu								
Notes/Com	ments:										
(0.7	1 1/20 00	um N									
0.15	1210 VO	lune									
n.76	nal. to h	6 DIAYGON									
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MON	NITORING V	VELL SAMPL	ING REC	ORD	Animas Environmental Services						
Mor	nitor Well No:	MW-	·11		6	624 E. Comanche, Earmington NM 87401					
					Tel (505) 564-2281 Fax (505) 324-2022						
Site	: Groundwate	r Sampling			<u></u>	Project No.: AFS 110904					
Location	: Enterprise Fi	eld Services, LLC	>			Date: 3/14/2014					
Project	: Lateral 6C				-	Arrival Time: 1440	1456 Sample				
Sampli	ng Technician:	LL JS			_	Air Temp: 52°					
Purge Purge T.O.C. Elev. (ft): 5578.65 Woll Diameter (in): 1 7:4 (ft): 7:4 (ft):											
Well Diameter (in):1Total Well Depth (ft): 20.84 Initial D.T.W. (ft):14.92Time:(taken at initial agusing of all wells)											
Initi	ial D.T.W. (ft):	14.82	Time:			_(taken at initial gaugir	ng of all wells)				
Contin Ein	mD.I.W. (ft):	_(taken prior to purging	y well)								
l If I	NAPL Present:	D.T.P.:	D.T.W	. 757	Thi	_(luken ujter sumple co	mection)				
Water Quality Parameters - Recorded During Well Purging											
	Temp	Conductivity	DO		ORP	PURGED VOLUME					
Time	(deg C)	(μS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observations				
1444	14.31	4,451	1.50	7.50	-93.0	lenp	Clear Hzo				
1447	13.34	4.539	1.21	7.43	-87.1	1/4 gal.	Clear HZD				
1450	13.51	4.551	1.24	7.40	-85.1	.5 gal	(lean HZO				
1456 12.79 4.591 1.35 7.40 -78.4 .75 gol Cleve H 20											
							· · · · · · · · · · · · · · · · · · ·				
	Applytical Dar										
	Analytical Par	ameters (includ	e analysis i	metnod a	na num	ber and type of sample	containers)				
		[BTEX 8021E	3 (3x40ml	VOA w/	/ HCL)					
_		Disposal of Purg	ed Water:	•	Into 5	5 Gallon Drum for Prop	er Disposal				
Со	Collected Samples Stored on Ice in Cooler: Yes										
	Chain of Custody Record Complete: Yes										
	Analytical Laboratory: ALS Environmental Laboratory										
Equip	Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter										
		and Per	istalitic Pu	mp							
Notes/Com	iments:		·								
0º 15	8/10/00										
101300.00	0/10/03										

MO		NELL SAMPL	ING REC	ORD		Animas Environme	ntal Services			
Mo	nitor Well No:	MW-	-12		624 E. Comanche, Earmington NM 87401					
				-	Tel. (505) 564-2281 Fax (505) 324-2022					
Site	e: Groundwate	r Sampling			Project No.: AFS 110904					
Locatior	: Enterprise Fi	eld Services, LLC	2		Date: 3/11/10/4					
Project	t: Lateral 6C		********		-	Arrival Time:	(1400 Sayphum			
Sampli	ing Technician	: LIJ	5		-	Air Temp: $5 ^{\theta} ^{\tau}$				
Pur	ge / No Purge	: ¹ Purg	e		- т.с).C. Elev. (ft): 5579	9.99			
Well	Diameter (in):	:1			Total We	ell Depth (ft): <u>2/.1</u> 8	?			
Init	tial D.T.W. (ft)	15.27	Time:			(taken at initial gaugin	g of all wells)			
Confi	rm D.T.W. (ft):	15.24	Time:	1340		(taken prior to purging	well)			
Fi	nal D.T.W. (ft):	15.35	Time:	1403		(taken after sample co	llection)			
IT	NAPL Present:	D.T.P.:	D.T.W	•••	Thio	kness: Tim	e:			
		Water Quali	ty Paramet	ters - Rec	orded Du	ring Well Purging				
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations			
1355	13.36	3.507	1.04	7.60	-165.4	.5 gal				
1400	13.19	3.5	.98	7.52	-165.6	.75 gal				
						0				
				-						

							······································			
	Analytical Par	ameters (includ	e analysis	method a	nd numl	per and type of sample	containers)			
				2 (240	VOA	(1101)				
·····		1	BIEX 80211	3 (3x40mi	. VUA W/	HCL)				
		Disposal of Dura	rod Watory		lata M		on Diana cal			
C	lected Sampl	os Storad on Ica	in Coolor		1110 5	S Gallon Druin for Prop				
			Complete:			Tes				
	Chain of C		Complete:			Yes				
F •		Analytical L	aporatory:	ALS ENVI	onment	al Laboratory				
Equip	ment Usea Di	aring sampling:	Keck Wate	r Level or	Keck Int	errace Level, YSI Water	Quality Meter			
N - + / 0		and Per	nstalltic Pu	mp						
Notes/Con	nments:									
						99 (1991 - 1997 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 19				
	75					1989 1994 (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (19				
	/) 18/10/00									
revisea: 0	0/10/09									

MON	ITORING V	VELL SAMPL	ING RECO	ORD	Animas Environmental Services						
Mon	itor Well No:	MW-	13		624 E. Comanche, Farmington NM 87401						
				Tel. (505) 564-2281 Fax (505) 324-2022							
Site:	Groundwate	r Sampling			Project No.: AES 110904						
Location:	Enterprise Fie	eld Services, LLC	2		Date: 3/14/2014						
Project:	Lateral 6C					Arrival Time: <u>1411</u>	(1437 Suple ")				
Samplin	g Technician:	u/75			-	Air Temp: <u>51° F</u>					
Purg	e / No Purge:	Purg	e	-	T.C	D.C. Elev. (ft): 5583	3.03				
Well L	Diameter (in):	1	T	-	fotal We	ell Depth (ft): <u>29.8</u>	<u>35</u>				
Confirm	m D T W (ft):	19.65	Time:	1417		(taken at initial gaugin (taken prior to purging	g of all wells)				
Fina	al D.T.W. (ft):	69	Time			(taken after sample co	llection)				
lf N	IAPL Present:	D.T.P.:	D.T.W	•:	Thic	ckness: Tim	e:				
		Water Quali	tv Paramet	ers - Reco	orded Du	uring Well Purging					
	Temp	Conductivity	DO		ORP	PURGED VOLUME					
Time	(deg C)	(µS) (mS)	(mg/L)	Hq	(mV)	(see reverse for calc.)	Notes/Observations				
14.18	16.65	3.434	1.45	748	-135.7	I CUP	Cur H20				
1425	16.91	3.433	220	7.32	-118.6	1/4 Gal.	Clear HZD				
14,30	16.99	3.437	2.32	7.29	-113.2	15 gal	dem HZD				
1437	17.00	3.436	2.41	7.31	-108.3	ologal.	Im Aro				
	the second secon										
Δ	Analytical Para	ameters (includ	e analysis ı	method a	nd num	per and type of sample	containers)				
	-	· · · ·	3TFX 8021F	3 (3x40ml		(HCI)	,				
			<u> </u>	<u>, (37-0111</u>							
Disposal of Purged Water: Into 55 Gallon Drum for Proper Disposal											
Col	Collected Samples Stored on Ice in Cooler: Yes										
	Chain of Custody Record Complete: Yes										
	Analytical Laboratory: ALS Environmental Laboratory										
Equipr	Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter										
	and Peristalitic Pump										
Notes/Com	ments:										
0.65											
řevised: 08	/10/09					······································					

MON	NITORING V	VELL SAMPLI	NG RECC	ORD	Animas Environmental Services				
Mor	nitor Well No:	TIN-1	/		624 F. Comanche, Farmington NM 87401				
				-	Tel. (505) 564-2281 Fax (505) 324-2022				
Site	: Groundwate	r Sampling			Project No.: AES 110904				
Location	: Enterprise Fi	eld Services, LLC			Project No.: AES 110904				
Project	: Lateral 6C				Arrival Time:				
Sampli	ng Technician:	LL I	TS		-	Air Temp: 53° e			
Pur	ge / No Purge:		= Grav	2	- т.с).C. Elev. (ft):			
Well	Diameter (in):	Hudro Run	da		Total We	ell Depth (ft):			
Init	ial D.T.W. (ft):		Time:	•		(taken at initial gaugin	g of all wells)		
Confi	m D.T.W. (ft):		Time:			(taken prior to purging	well)		
Fir	al D.T.W. (ft):	<u> Ole de l'hous blocker d'hours i se ser</u> e,	Time:			(taken after sample co	llection)		
lf	NAPL Present:	D.T.P.:	D.T.W.	Thio	kness: Tim	e:			
		Water Qualit	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		
					1				
					1				
	Analytical Par	ameters (includ	e analysis r	nethod a	and num	ber and type of sample	containers)		
		[3TEX 8021B	3 (3x40m	L VOA w,	/ HCL)			
		18 - WHITE MARK AND A DATA MARK PARTY AND A DATA - Data A A A A A A A A A A A A A A A A A A	<u></u>						
				nonaniana di sana sinit					
		Disposal of Purg	ged Water:		Into 5	55 Gallon Drum for Prop	per Disposal		
Co	ollected Sampl	es Stored on Ice	in Cooler:						
	Chain of	Custody Record	Complete:			Yes			
		Analytical L	aboratory:	ALS Envi	ronment	al Laboratory	- ····		
Eauir	oment Used Di	uring Sampling:	Keck Wate	r Level o	r Keck In	terface Level, YSI Water	r Quality Meter		
		and Per	istalitic Pu	mp	·n				
Notes/Cor	nments:								
		Hudiron	which	San	NOU !	(0) 1629			
		to - to			· U ···				
	· · · · · · · · · · · · · · · · · · ·	•				*****			
revised: (08/10/09								

MON	ITORING V	VELL SAMPLI	NG RECO	ORD	Animas Environmental Services				
Moni	itor Well No:	-rta) · 7	>		6	24 F. Comanche, Farmi	ngton NM 87401		
				-	Tel. (505) 564-2281 Fax (505) 324-2022				
Site	Groundwate	r Samnling			Project No.: AES 110904				
Location:	Enterprise Fi	eld Services 11C	7		$- \qquad \text{Project No.: } AES 110904 \\ \text{Date: } a / \mu / / a \mu / f$				
Project:	Lateral 6C				Date: <u>3/14/7017</u>				
Samplin	g Technician:	UTAC			$- \qquad \text{Arrival lime:} \frac{1}{\sqrt{2}}$				
Purg	e / No Purge:	Purge	Ecvals		- Т.С).C. Elev. (ft):			
Well D	Diameter (in):	Hudro Du	nch		Total We	ell Depth (ft):			
Initia	al D.T.W. (ft):		Time:	-		(taken at initial gaugin	g of all wells)		
Confirm	n D.T.W. (ft):	W the feature of the second s	Time:			(taken prior to puraina	well)		
Fina	al D.T.W. (ft):	·	Time:	P		(taken after sample co	, llection)		
lf N	IAPL Present:	D.T.P.:	_ D.T.W.	•:	Thio	kness: Tim	e:		
		Water Qualit	y Paramet	ers - Rec	orded Du	uring Well Purging	1000,000,000,000,000,000,000,000,000,00		
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
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							· · · · · · · · · · · · · · · · · · ·		
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						3			
4	Analytical Par	ameters (include	e analysis r	method a	ind num	ber and type of sample	containers)		
		E	BTEX 8021E	3 (3x40m	L VOA w,	/ HCL)			
		Disposal of Purg	ed Water:		Into 5	55 Gallon Drum for Prop	per Disposal		
Col	lected Sampl	es Stored on Ice	in Cooler			Yes			
201	Chain of (Custody Booord	Completer		Voc				
			complete:						
		Analytical La	aporatory:	ALS Envi	ronment	ai Laboratory			
Equipr	ment Used Du	ring Sampling:	Keck Wate	r Level or	Keck In	terface Level, YSI Water	Quality Meter		
		and Per	istalitic Pu	mp					
otes/Com	ments:				^	\wedge			
		Hudro F	rinch		mile	10/103V			
				<u>~</u>	1	V 14 1 9			
							بروند. مراجع المراجع ا		
rovicod. A	2/10/00								
eviseu: 00									

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

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

24

Project:	Groundwater Sampling	Project No.:	AES 110904	
Site:	Enterprise Field Services, LLC	Date:	9/9/14	
Location:	Lateral 6C	Time:	6730	
Tech:	DE/LL	Form:		

Well I.D.	NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-9	67.	17.83		-D-25,9
MW-5		19.58		TD - 25,35
MW-6		18.75		+D - 24.95
MW-7		19.24		TD-26.10
MW-8	15,12	15.25	,13	TD-24.20
MW-Z		16.50		TD - 24,54
MW-10		15.34		TD-20.83 1"
MW-3		16.10		TD - 25,52
MW -11		15.63		TD-20,84 1"
MW-4		15.80		TD-23.83 Well Gp bisted off
MW-12		15.96		TD-21.19 1"
Mw-1	15.98	15.99		TD-Z7.30
MW-13		20.18		TD-24.85 1"
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Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

D/ON				חפר		Animac Environmo	ntal Sanvisas						
			ING RECC	JNU	Animas Environmental Services								
Mon	itor Well No:	MW	-1	_	624 E. Comanche, Farmington NM 87401								
				_	Tel. (505) 564-2281 Fax (505) 324-2022								
Site:	Groundwater	Sampling			Project No.: AES 110904								
Location:	Enterprise Fie	eld Services, LLC		ι.	Date:이지///								
Project:	Lateral 6C				Arrival Time: 093+ 1006								
Samplin	ng Technician:	<u>UDE</u>			Air Temp: 6								
Purg	e / No Purge:	Purg	e	_	T.C	<b>D.C. Elev. (ft):</b> 5579	9.73						
Well [	Diameter (in):	2			Total We	ell Depth (ft): 27.	30						
Initi	al D.T.W. (ft):	<u> </u>	Time:	073	)	(taken at initial gaugin	g of all wells)						
Contiri	m D.T.W. (ft):		Time:		<u> </u>	(taken prior to purging	well)						
Fina	al D.1.W. (ft):	17.30	lime:	1020		(taken after sample co	liection)						
	IT NAPL Present: D.1.P.: D.1.VV.: Inickness: Ilme:												
Water Quality Parameters - Recorded During Well Purging													
	Temp	Conductivity	DO		ORP	PURGED VOLUME							
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations						
0931													
1011	16.96	2.119	4.05	9.02	-321.0		Black steen						
1013	17,67	7.402	1.39	9.06	-333.3	Ga/	chuncher						
1015	1711	7.486	1.3/2	9.7.0	-338.1	7.56/	Carella						
1017	17,01	7 167	1,12	<u> </u>	J372 4	7]							
1014	1+165	2.11+		6.17	17) 2	3321	di						
1019	14.74	6.599	1.19	9.14	77711)	9541							
1021	17.55	2.592	1.17	9,16	-552.7	)15) Sc/							
							· ·						
					:								
	Analytical Para	ameters (includ	e analvsis r	nethod a	nd numl	per and type of sample	containers}						
				/2v/0ml									
				0,0,40111	. VOA W/								
						· · · · · · · · · · · · · · · · · · ·							
		Disposal of Pure	zed Water:		Into 5	5 Gallon Drum for Pron	er Disposal						
	llected Sample	es Stored on Ice	in Cooler			Υρς							
	Cháin of (	uctody Bosord	Completer			Voc	· · · · ·						
			complete:										
			aporatory:	ALS ENVI	onment								
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level or	Keck Int	errace Level, YSI Water	Quality Meter						
		and Per	ristaltic Pun	np BG.	105								
Notes/Com	iments:												
		· · · · · · · · · · · · · · · · · · ·											

revised: 08/10/09

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		VELL SAMPLI	ING RECC	JKD		Animas Environme	ntal Services		
Mon	itor Well No:	MW	-2	-	624 E. Comanche, Farmington NM 87401				
					Tel. (505) 564-2281 Fax (505) 324-2022				
Site:	Groundwater	Sampling			_	Project No.: AES 1109	04		
Location:	Enterprise Fie	eld Services, LLC	· ·	i .	Date: <u> </u>				
Project:	Lateral 6C	1,195			- '	Arrival Time: 093			
Samplin	ng Technician:	LUIBE	•		- то	Air lemp: (6)	1 20		
Purg	e / No Purge:	Purge	e	-	L.L Total We	1000000000000000000000000000000000000	<u></u>		
vven t Initi	al D T W/ (ft).	<u>_</u>	Time:	1770		(taken at initial aquain	a of all wells)		
Confir	m D.T.W. (ft):	16.00	Time:	0432		(taken prior to puraina	well)		
Fin	al D.T.W. (ft):	16,67	Time:	0942	-	(taken after sample co	llection)		
If P	NAPL Present:	D.T.P.:	D.T.W.		Thic	kness: 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/Observation		
0970	17.17-	7.030	4.01	9.48	-2.14.8				
* 4 21 -	12 20	7,190	7.46	GUL	249.6	]-(]			
6.70	17.00	7,737	7.05	GUI	-7281	7)			
07 5K	17,03	7710	291	944	JGC 1	7.1			
0935	17:16	2.50	2.11	1117 C 3C	7697	<u> </u>			
0991	/ 7,17	2.367	3.32		- 270:0	7541			
			<u>.</u>						
				ļ					
							· ······		
							· · ·		
	Analytical Para	ameters (includ	e analysis r	method a	nd numl	ber and type of sample	containers)		
			TEV 00210	(2v40m		(uci)			
				(3X40III					
		Disposal of Purg	ged Water:	•••••	Into 5	5 Gallon Drum for Prop	er Disposal		
Co	llected Sample	es Stored on Ice	in Cooler:			Yes			
	Chain of C	Custody Record	Complete:			Yes			
		Analytical L	aboratory:	ALS Envi	ronment	al Laboratory	22222 · · · · · · · · · · · · · · · · ·		
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level o	· Keck Int	terface Level, YSI Water	Quality Meter		
		and Per	r <del>istaltic Pu</del> r	np Ba	16-				
Notes/Com	ments:	· · · · · · · · · · · · · · · · · · ·	·····						
,									
					- <u></u>				

MON	IITORING V	VELL SAMPLI	NG RECO	ORD		Animas Environmental Services				
Mon	itor Well No:	MW	-3		6	624 E. Comanche, Farmington NM 87401				
				_		Tel. (505) 564-2281 Fax	(505) 324-2022			
Site:	Groundwate	^r Sampling		÷	ulua -	Project No.: AES 1109	04			
Location:	Enterprise Fig	eld Services, LLC	· · · · · · · · · · · · · · · · · · ·		-	Date: 9/6/14				
Project:	Lateral 6C					Arrival Time: 0548				
Samplin	g Technician:	LLBE			_	Air Temp:(_)				
Purg	e / No Purge:	Purg	e	-	T.C	D.C. Elev. (ft): 5579	9.52			
Well I	Diameter (in):	2		_	Total We	ell Depth (ft): 25.	65			
Initi	al D.T.W. (ft):		Time:	0730		(taken at initial gaugin	g of all wells)			
Confir	m D.T.W. (ft):		Time:	0949	2	(taken prior to purging	(well)			
Fin	al D.T.W. (ft):	17,20	Time:	0158		(taken after sample co	llection)			
	NAPL Present:	D.I.P.:	D.1.W	.:		ckness: IIm	e:			
		Water Quali	ty Paramet	ers - Rec	orded Du	uring Well Purging	1			
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations			
0951	16.14	2.407	2.96	9.17	-185.5					
0952	16,33	2.639	2.63	9:13	-182.4	1521				
0952	15.96	2.774	3.34	9.15	192.5	2541				
2955	15.58	7.240	7.38	913	-7.04.6	354/				
152	10.52	7,218	7.15	9.07	-7,07,2	4 acl				
0557	10.57	7.747	7.57	902		425 501				
6.03	13154	2++10	Unc	1.00	-205.7					
					· .					
	· · · · · · · · · · · · · · · · · · ·									
							·			
	Analytical Par	ameters (includ	e analysis ı	method a	and num	ber and type of sample	containers)			
·			3TEX 8021E	3 (3x40m	L VOA w/	/ HCL)				
							<u>1997 - 1999 - 19</u>			
	1	Disposal of Purg	ged Water:	:	Into 5	5 Gallon Drum for Prop	er Disposal			
Co	llected Sampl	es Stored on Ice	in Cooler:			Yes				
	Chain of (	Custody Record	Complete:			Yes				
۰.	- <del></del>	Analytical L	aboratory:	ALS Envi	ronment	al Laboratory				
Equip	ment Used Du	iring Sampling:	Keck Wate	r Level o	r Keck Int	erface Level, YSI Water	Quality Meter			
		and Per	ristaltic Pur	np Bay	lier	· ·				
Notes/Com	iments:									
	· · · · · · · · · · · · · · · · · · ·									
revised: 0	8/10/09									

MO	NITORING W	<b>VELL SAMPLI</b>	NG RECC	ORD		Animas Environme	ntal Services	
Mo	nitor Well No:	MW	-4		6	24 E. Comanche, Farmi	ngton NM 87401	
		••		-	Tel. (505) 564-2281 Fax (505) 324-2022			
Sit	e: Groundwater	Sampling			·	Project No.: AES 1109	04	
Locatio	n: Enterprise Fie	eld Services, LLC			-	Date: 9/9/10		
Projec	t: Lateral 6C					د Arrival Time: 103		
Samp	ing Technician:	U/BE			-	Air Temp: 🛛 🌀		
Pu	rge / No Purge:	L Purge	e	-	т.о	0.C. Elev. (ft): 558	0.36	
Wel	Diameter (in):	2		- a-1 7	Total We	ell Depth (ft): 23	.95	
Ini	tial D.T.W. (ft):	15.80	Time:	0730		(taken at initial gaugin	ig of all wells)	
Cont	irm D.T.W. (ft):	15.79	Time:	<u>- 1050</u>		(taken prior to purging	(Well) (laction)	
	NADI Procent	<u> </u>	DTW		Thic	kness: Tim	nection)	
•	NAF LI Tesent.	Mator Qualit		ors - Roc		ring Well Burging	· · ·	
	Tomn	Conductivity				PURGED VOLUME		
Time	(deg C)	(uS) (mS)	(mg/l)	nH		(see reverse for calc.)	Notes/Observatio	
111111111111111111111111111111111111111			<u>、いち/ L/</u> えんり	GUII	1			
1033	15.85	21476	1117	1.99	- 669.6	j 1		
1054	16.29	6.555	7,55	9,45	-21+55	I gc I		
1035	16,19	1.618	2.02	7.5+	213.0	Lsel		
1032	16.06	L.589	3.24	9,52	-210.0	Sect		
1039	16.07	2.602	7.68	9.28	-206.5	4 901		
<u>}</u>								
		iz						
			<u> </u>					
	_							
					l			
	Analytical Para	ameters (includ	e analysis r	nethod a	ind num	ber and type of sample	containers)	
		E	3TEX 8021E	3 (3x40mi	L VOA w,	/ HCL)		
		Disposal of Pure	ed Water:		Into 5	5 Gallon Drum for Prop	per Disposal	
+ ,	ollected Sampl	es Stored on Ice	in Cooler:			Yes		
	Chain of (	Custody Record	Complete		· · · · · · · · · · · · · · · · · · ·	Yes		
		Analutical	aboratoria	AISEnd	ronmont	allahoratory		
		wine Committee			- Kashiri	ar Laboratory		
	pment Used Du	iring sampling:	Keck Wate	r Level O		terrace Level, YSI Water		
Equ		and Rei	ristaltic Pur	нр <i>136</i> ,	ler			
Equ								
Equ Notes/Co	mments:			<u></u>			·	
Equ Notes/Co	mments:							
Equ Notes/Co	mments:						·	

	ITORING V	VELL SAMPL	ING REC	ORD		Animas Environme	ntal Services
Mon	itor Well No:	MW	/-5		6	524 E. Comanche, Farmi	ngton NM 87401
		<b>F</b>		_	Ĩ.	Tel. (505) 564-2281 Fax	(505) 324-2022
Site:	Groundwate	r Sampling			•	Project No.: AES 1109	04
Location:	Enterprise Fi	eld Services, LL	С		_	Date: 9914	
Project:	Lateral 6C				-	Arrival Time: 0838	
Samplin	g Technician:	<u>LL/BE</u>				Air Temp: 61.0	and the state of the
Purg	e / No Purge:	Pure	ge		T.C	D.C. Elev. (ft): 558	3.53
vven i Initi	D T W (ft):	Ste 2 Cont 10	(Time:	- 427	lotal W(	ell Depth (ft): $-25$	$\frac{.42}{.000}$
Confir	m D.T.W. (ft):	19.58	 Time:	1840	,0	_ (taken at mitiai yuuyin _ (taken prior to puraina	y oj uli welisj well)
Fin	al D.T.W. (ft):	19.76	- Time:	1751		_(taken after sample co	llection)
lfr	IAPL Present:	D.T.P.:	D.T.W	<u> </u>	Thi	 ckness:Tim	e:
		Water Qual	ity Paramet	ters - Rec	orded D	uring Well Purging	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	pH	(mV)	(see reverse for calc.)	Notes/Observation
0842	14.79	1.9(2	7.41	9.09	-17.8		
0845	14.23	7.7.72	7 21	570	-(1.5	Icel	
0847	1462	7.7-76	417	911	-51 (	7 ]	
1746	14.69	7760	$\left\{\begin{array}{c} -\frac{1}{2} \\ -\frac{1}{2} \end{array}\right\}$	9.17	-541	7.4	
0214	//•0/	0.097	1.01	1115	-57.7	5451	
		• 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11					
	. <u>.</u>						
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		·····					
							····
Į.	Analytical Para	ameters (includ	le analysis r	method a	nd numl	ber and type of sample	containers)
			BTEX 8021B	3 (3x40ml	. VOA w/	/ HCL)	· · · · · · · · · · · · · · · · · · ·
		)isposal of Pure	ed Water		Into 5	5 Gallon Drum for Pron	er Disposal
Col	ected Sample	es Stored on Ice	in Cooler:			Vec	
	Chain of C	listody Rocord	Completer			Vee	· · · · · · · · · · · · · · · · · · ·
		Application	complete:				
		Analytical L	aboratory:	ALS ENVI	onment		<u></u>
Equipr	nent Used Du	ring Sampling:	Keck Water	r Level or	Keck Int	errace Level, YSI Water	Quality Meter
		and Pe	ristaltic Pun	np /Seil	e		
Notes/Com	ments:						
		·····					

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MON	IITORING V	VELL SAMPLI	NG RECO	ORD		Animas Environme	ntal Services		
Mon	itor Well No:	MW	-6		624 E. Comanche, Farmington NM 87401				
				-	-	Tel. (505) 564-2281 Fax	(505) 324-2022		
Site:	Groundwate	Sampling		2		Project No.: AES 1109	04		
Location:	Enterprise Fi	eld Services, LLC			-	Date: <u>9/9//</u>	/		
Project:	Lateral 6C	145			<u> </u>	Arrival Time: 0858			
Samplin	ng Technician:	$\underline{U/BE}$			Air Temp: 61				
Purg	e / No Purge:	Purg	9		т.с	D.C. Elev. (ft): 5582	2.22		
Well	Diameter (in):	2	<b>T</b>	1.)	Total We	ell Depth (ft): <u>24</u> ,	<u>16</u>		
initi Confin	ai D. I. W. (π): 	17.75	Time:	0450		(taken at initial gaugin (takan prior to puraing	g oj ali welisj woll)		
Ein	n D.1.w. (ii): al D T W/ (ft):	<u> </u>	Time.	08>1		(taken after sample co	llection}		
	API Present:	D.T.P.:	D.T.W	<u></u>	Thic	kness: Tim	e:		
		Mator Qualit		ers - Rec		ring Well Burging			
	Temn	Conductivity				PURGED VOLUME			
Time	(deg C)	(uS) (mS)	(mg/L)	вH	(mV)	(see reverse for calc.)	Notes/Observations		
han	1676	1 617	6.0	953	274 6	(,			
0.00	15.31	7,762	7 77	G 10	-201.	1]			
0502	13.36	2.01)	- 11	9.00	7785	7 51			
0909	15.94	2.11	L.37	$\left( \begin{array}{c} 1, \\ 0 \end{array} \right)$	7001	6501			
0905	13.3Z	2,097	1.05	7.18	-540.1	3541	sheen		
						·			
				ļ			<b>ж</b> п		
		· ·							
	Analytical Par	ameters (includ	e analysis i	method a	nd numl	ber and type of sample	containers)		
		E	3TEX 8021E	3 (3x40m	L VOA w/	/ HCL)			
				-			······································		
							-		
		Disposal of Purg	ged Water:		Into 5	5 Gallon Drum for Prop	er Disposal		
Co	llected Sampl	es Stored on Ice	in Cooler:			Yes			
	Chain of (	Custody Record	Complete:			Yes			
		Analytical L	aboratory:	ALS Envi	ronment	al Laboratory			
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level or	Keck Int	erface Level, YSI Water	Quality Meter		
		and Pei	ustaltic Pur	np Da.	ler .				
Notes/Com	nments:								
						· · · · ·	www.www		
			, <u>, , , , , , , , , , , , , , , , </u>				<u></u>		
revised: 0	8/10/09								

MON		VELL SAMPLI	NG RECO	ORD	Animas Environmental Services			
Mon	itor Well No:	MW	-7		6	24 E. Comanche, Farmi	ngton NM 87401	
				-	Tel. (505) 564-2281 Fax (505) 324-2022			
Site:	Groundwate	r Sampling			1	Project No.: AES 1109	04	
Location:	Enterprise Fie	eld Services, LLC			-	Date: 9 9 1	ł	
Project:	Lateral 6C	· ·				Arrival Time: 09		
Samplin	g Technician:	LUBO			_	Air Temp: 61		
Purg	e / No Purge:	Purge	3	_	T.C	<b>.C. Elev. (ft):</b> 5582	2.24	
Well [	Diameter (in):	2			Total We	ell Depth (ft): <u>2</u> 6.	22	
Initi	al D.T.W. (ft):	15.24	Time:	0730		(taken at initial gaugin	g of all wells)	
Confir	m D.T.W. (ft):	19,24	Time:	0917		(taken prior to purging	well)	
Fina	al D.T.W. (ft):	<u> </u>	Time:	0424		(taken after sample co	llection)	
	NAPL Present:	D.T.P.:	D.1.W.			ckness: lim	e:	
		Water Qualit	ty Paramet	ers - Rec	orded Du	uring Well Purging	r	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	-	
Time	(deg C)	(μS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observatior	
0918	15.04	2,275	6.04	9.97	-304.2			
05100	14,94	2.243	5.78	9.89	-304.7	1991		
0921	14. 88	2.255	3.75	9.68	.301.8	2 gal		
0924	14.91	2.271	3.89	9.57	-797,	236		
					1			
							······	
1	Analytical Para	ameters (includ	e analysis ı	method a	ind numl	ber and type of sample	containers)	
		E	BTEX 8021E	8 (3x40m	L VOA w/	/ HCL)		
					<b>.</b> .			
		Disposal of Purg	ed Water:		Into 5	5 Gallon Drum for Prop	er Disposal	
Co	llected Sampl	es Stored on Ice	in Cooler:			Yes		
	Chain of (	Custody Record	Complete:			Yes		
· · · · · · · · · · · · · · · · · · ·		Analytical L	aboratory:	ALS Envi	ronment	al Laboratory		
Equip	ment Used Du	iring Sampling:	Keck Wate	r Level oi	r Keck Int	erface Level, YSI Water	Quality Meter	
		and Per	istaltic Pur	np Ia	iler			
Notes/Com	ments:							
		<u> </u>						
revised: 0	8/10/09	-				in the second		

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	MON	IITORING V	VELL SAMPLI	NG RECO	ORD		Animas Environme	ntal Services		
	Mon	itor Well No:	MW	-8		624 E. Comanche, Farmington NM 87401				
					-	Tel. (505) 564-2281 Fax (505) 324-2022				
	Site:	Groundwate	r Sampling		••••	1	Project No.: AES 1109	04		
	Location:	Enterprise Fi	eld Services, LLC			Date: <u>7/9/14</u>				
	Project:	Lateral 6C				Arrival Time:				
	Samplir	g Technician:	UME			-	Air Temp:			
	Purg	e / No Purge:	Purge	2	-	т.с	D.C. Elev. (ft): 557	7.81		
	Well I	Diameter (in):	2			rotal We	ell Depth (ft): 가식	.21		
	Initi	al D.T.W. (ft):	<b>.</b>	Time:		_{taken at initial gaugin	ig of all wells)			
	Contin	m D.I.w. (π): - ID T.W. (ө):		Time:	•		_(taken prior to purging	l Well) Hestian		
	Fill If N	APL Present:	D.T.P.: /5//2	<u>2</u> D.T.W.	: (5.2	<u>S</u> Thie	_( <i>laken after sample co</i> ckness: <u> </u>	ie: <u>0730</u>		
F			Water Qualit	y Paramet	ers - Rec	orded D	uring Well Purging			
F		Temp	Conductivity	DO		ORP	PURGED VOLUME			
	Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observation		
-								·		
-										
-										
		·								
.  -										
		<u></u>								
Γ		Analytical Para	ameters (include	e analysis n	nethod a	nd numl	ber and type of sample	containers)		
			E	STEX 8021B	(3x40ml	. VOA w	/ HCL)			
		#1210 hmite								
.  -			Disposal of Purg	ed Water:		into 5	5 Gallon Drum for Prop	er Disposal		
	Co	llected Sample	es Stored on Ice	in Cooler:			Yes			
		Chain of (	Sustody Record	Complete:			Yes			
			Analytical La	aboratory:	ALS Envi	onment	al Laboratory			
	Equip	ment Used Di	ring Sampling	Keck Water	Level or	Kerk Int	terface Level VSI Water	Quality Meter		
	-daihi		and Per	istalitic Pur	np			Quancy MICIEI		
Ν	otes/Com	ments: 人	JAPL		-					

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M0	ONITORING V	VELL SAMPL	ING RECO	ORD		Animas Environme	ntal Services		
∧	Ionitor Well No:	MW	-9		6	624 E. Comanche, Farmington NM 87401			
				-		Tel. (505) 564-2281 Fax (505) 324-2022			
S	ite: Groundwate	r Sampling			I	Project No.: AES 1109	04		
Locati	on: Enterprise Fie	eld Services, LLC			_	Date: <u>9/9//</u>	/		
Proje	ect: Lateral 6C					Arrival Time: <u>8:10</u>			
Sam	pling Technician:	<u>LL/BE</u>			-	Air Temp: 🔮 🛵	61.0		
P	urge / No Purge:	Purg	e	-	T.C	D.C. Elev. (ft): 5582	2.48		
We	ell Diameter (in):	2			Fotal We	ell Depth (ft): <u>25</u>	.99		
	nitial D.T.W. (ft):	1+.83		_(taken at initial gaugin 	g of all wells)				
Cor	Final D.T.W. (IL):		Time:			_ (taken prior to purging (taken after sample co	well) llection)		
	If NAPL Present: D.T.P.: D.T.W.:					_ ruken ujter sumple co.	e:		
		Water Quali		ors - Rec		uring Well Purging	····		
	Temp	Conductivity			ORP	PURGED VOLUME			
Time		(uS) (mS)	(mg/l)	 nH	(m\/)	(see reverse for calc.)	Notes/Observation		
(10)0		7.180	7.65	9.70	115				
			191	9.05	27.4				
0000	- 17.50	7716	7.70	G or	27	7541			
0×29		2.215	2.50	7.00	J, <del>7</del>	2 ) < /			
082-5	5 19:79	LILSO	6,60	8.76	- 2.8	5561			
087	9 14.59	2.009	4.81	00 ٦	-16.2	4 sal			
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		* .							
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	Analytical Dar	amotors (includ	o opolycic i	nothod a	nd num	her and type of cample	containers)		
	Analytical Para	ameters (includ	e analysis i		na num	ber and type of sample	containersy		
	· · · · · · · · · · · · · · · · · · ·		BTEX 8021E	3 (3x40ml	. VOA w/	HCL) Bailer			
	······								
		-1 1 7 -							
	<b>_ H</b>	Disposal of Pure	ged Water:		into 5	5 Gallon Drum for Prop	er Disposal		
	Collected Sampl	es Stored on Ice	in Cooler:			Yes			
	Chain of (	Custody Record	Complete:			Yes			
	an a	Analytical L	aboratory:	ALS Envi	ronment	al Laboratory	12 		
Eq	uipment Used Du	Iring Sampling:	Keck Wate	r Level or	Keck Int	terface Level, YSI Water	Quality Meter		
		and Per	ristalitic Pu	mp Ba	ler				
	Comments:					·····			
Notes/C									
Notes/C									
Notes/C	· · · .			- <u></u>					
Notes/C	· · · .								

MONITORING WELL SAMPLING RECORD						Animas Environmental Services				
Mon	itor Well No:	MW-	10		6	624 F. Comanche, Farmington NM 87401				
				-	Tel. (505) 564-2281 Fax (505) 324-2022					
Site:	Groundwater	Sampling			I	Project No.: AFS 110904				
Location:	Enterprise Fie	ld Services. LLC	······································	•	Date: 9/9/1	<u>u</u> (%)				
Project:	Lateral 6C	,		•	Arrival Time: //25	· · · · · · · · · · · · · · · · · · ·				
Samplin	g Technician:	LIBE				Air Temp: (a)				
Purg	e / No Purge:	Purge	9		т.с	<b>.C. Elev. (ft):</b> 5573	7.80			
Well D	Diameter (in):	1		-	Fotal We	ell Depth (ft):	83			
Initia	al D.T.W. (ft):	15.34	Time:	0730		(taken at initial gaugin	g of all wells)			
Confir	m D.T.W. (ft):	15.37	Time:	1126	,	(taken prior to purging	well)			
Fina	al D.T.W. (ft):	15,41	Time:	1145		(taken after sample co	llection)			
lf N	APL Present:	D.T.P.:	D.T.W		_ Thio	kness: Tim	e:			
		Water Qualit	y Paramet	ers - Reco	orded Du	ring Well Purging				
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations			
1130	15.95	3,316	5.12	9.45	-115.2					
1138	15.74	3.323	3.16	9.49	-177.2	0,75 54 )				
(, _ 0	1									
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						·				
ŀ	Analytical Para	meters (include	e analysis ı	method a	nd numl	ber and type of sample	containers)			
		E	BTEX 8021E	3 (3x40ml	. VOA w	/ HCL)				
						<u></u>				
		Disposal of Purg	ed Water:		Into 5	5 Gallon Drum for Pron	er Disposal			
	llactad Samal	s Starad on lea	in Coolory	<u></u>		Vec				
		s storeu on ice				1C3				
	unain of C	ustoay kecord	complete:			Yes				
		Analytical La	aboratory:	ALS Envi	ronment	al Laboratory	· · · · · · · · · · · · · · · · · · ·			
Equip	ment Used Du	ring Sampling:	Keck Wate	r Level or	Keck Int	erface Level, YSI Water	Quality Meter			
		and <del>Per</del>	istalitic Pu	mp Bg.	hes					
Notes/Com	iments:						.45			
revised: 08	8/10/09				. /					

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	MON	ITORING W	/ELL SAMPLI		Animas Environmental Services						
	Moni	tor Well No:	MW-	11	_	6	624 E. Comanche, Farmington NM 87401				
			×		-	Tel. (505) 564-2281 Fax (505) 324-2022					
	Site:	Groundwater	Sampling		_	Project No.: AES 1109	04				
1	Location:	Enterprise Fie	ld Services, LLC			-	Date: <u> </u>	14			
	Project:	Lateral 6C				-	Arrival Time: 103				
	Sampling Technician: <u>CC IILE</u>						Air Temp: (6)				
	Purge	e / No Purge:	Purg	e	-	.   .	D.C. Elev. (ft): 5578	S.65			
	well D		<u> </u>	Timor	. 0750	iotai we	fotal Well Depth (ft): $\frac{2}{\sqrt{3}}, \frac{3}{\sqrt{4}}$				
	Confirm D.T.W. (ft): $15/7$ Time: $0/7^{-1}$						_(taken arior to puraina	ig of un wens) i well)			
	Fina	al D.T.W. (ft):	15 45	Time:	1117		_(taken after sample co	(lection)			
	If NAPL Present: D.T.P.: D.T.W.:					Thi	ckness: Tim	e:			
Water Quality Parameters - Recorded During Well Purging											
		Temn	Conductivity	ро		ORP	PURGED VOLUME	· · · · ·			
	Time	(deg ()	(uS) (mS)	(mg/1)	nН	(mV)	(see reverse for calc.)	Notes/Observation			
	1/27	14/3/	7 447	1 40	9.55						
		11.00	1.000	1 11	6.47	1101	07E 1	· · · · · · · · · · · · · · · · · · ·			
		19.51	2.015	2.71	PIL	-119-5	(1, t) 361				
•••											
	i										
	I	undustical Davi				un el un cuenci	i her and tune of comple	containara)			
	A	andiyuldi Pdia	interers (includ	e allalysis i	nethou a		ber and type of sample	containersy			
			<u> </u>	BTEX 8021B	(3x40m)	L VOA w,	/ HCL)				
		ا بين مع المعمما	visposal of Purg	seu vvater:							
	COL	lected Sample	es stored on ICE				Yes				
		Chain of C	ustody Record	complete:			Yes				
	- -	an a	Analytical L	aboratory:	ALS Envi	ronment	tal Laboratory				
	Equipn	nent Used Du	ring Sampling:	Keck Wate	r Level or	Keck In	tertace Level, YSI Water	Quality Meter			
			and Pei	HSTAHLIC PUI	<u>пр_</u> р	are	)				
	Notes/Com	ments:			<u> </u>		<u>20-10-10-00-00-00-00-00-00-00-00-00-00-00</u>				
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	revisea: 08	V I U/U9	,				· · · ·				

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MONITORING WELL SAMPLING RECORD						Animas Environme	ntal Services		
Moni	itor Well No:	MW-	12		6	24 E. Comanche, Farmi	ngton NM 87401		
						Tel. (505) 564-2281 Fax (505) 324-2022			
Site:	Groundwater	Sampling			Project No.: AES 1109	04			
Location: Enterprise Field Services, LLC						Date: 9/9/	14		
Project:	Lateral 6C			-	Arrival Time: 104구				
Samplin	g Technician:	LL /BE			_	Air Temp: 6)			
Purg	e / No Purge:	Purge	9		- Т.С	<b>).C. Elev. (ft):</b> 5579	9.99		
Well D	Diameter (in):	1			Total We	ell Depth (ft):	18		
Initia	al D.T.W. (ft):	15.96	Time:			(taken at initial gaugin	ig of all wells)		
Confirm	n D.T.W. (ft):	15.95	Time:	1047		(taken prior to purging	ı well)		
Fina	al D.T.W. (ft):		Time:			(taken after sample co	llection)		
If N	IAPL Present:	D.T.P.:	D.T.W.	.:	Thio	kness: Tim	e:		
		Water Qualit	y Paramet	ers - Rec	orded Du	uring Well Purging			
	Temp	Conductivity	DŌ		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	Hq	(mV)	(see reverse for calc.)	Notes/Observations		
1049	11.10	1.969	7.99	9.61	-176.4				
lach	16,7.7	4 176	740	657	-17/0	75 00/			
1036	16.04	2.107	()(0	ISC.	1+1.0	, () )41			
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					ļ				
i									
					l	Levend trans of opposite			
	Analytical Para	ameters (include	e analysis i	netriod a	ina numi	ber and type of sample	containers)		
	· · · · · · · · · · · · · · · · · · ·	E	STEX 8021E	3 (3x40ml	L VOA w,	/ HCL)			
	9								
		Dismonal of Dung	1 14/		lute f	Collon Drum for Dror	or Disposal		
		Disposal of Purg	ed Water:		Into 5	5 Gallon Drum for Prop	ber Disposal		
Col	llected Sample	es Stored on Ice	in Cooler:			Yes			
	Chain of C	Custody Record	Complete:			Yes			
	÷	Analytical La	aboratory:	ALS Envi	ronment	al Laboratory	 		
Equipr	ment Used Du	ring Sampling:	Keck Wate	r Level or	Keck Int	erface Level, YSI Water	Quality Meter		
		and Per	istalitic Pu	mp 72	=, Ter				
Notes/Com	ments:								
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				<u> </u>	<u>`</u>	<del></del>	···		
unula - d. Af	2/40/00								

revised: 08/10/09

Г	MONITORING WELL SAMPLING RECORD						Animas Environmental Services			
	Moni	itor Well No:	MW-	13		624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022				
	Site:	Groundwater	Sampling			I	Project No.: AES 1109	04		
)	Location: Enterprise Field Services, LLC Project: Lateral 6C						Date: 5/5/1	<u>4</u>		
							Arrival Time: / 3	8		
	Samplin	g Technician:	LI BE	······	· · · · · · · · · · · · · · · · · · ·	•	Air Temp: 6)	<u> </u>		
	Purge / No Purge: Purge						<b>).C. Elev. (ft):</b> 5583	3.03		
	Well Diameter (in):         1         To           Initial D.T.W. (ft):         20.18         Time:         1319					Fotal We	ell Depth (ft):구식,	.85 1.114		
							(taken at initial gaugin	ig of all wells) hed to		
	Confirr	n D.T.W. (ft):	20,18	Time:	1319		(taken prior to purging	ı well)		
	Fina	al D.T.W. (ft):	20.19	Time:	1349		(taken after sample co	llection)		
	If N	APL Present:	D.T.P.:	D.T.W.		Thio	ckness: Tim	e:		
L			Water Qualit	ty Paramete	ers - Reco	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		
L	1321	16.48	1.542	4.19	10,00	-125,4				
	1336	6.35	1.630	5.N	9.44	-74.2	\$ 0.25	<i>,</i> ‴ <b>A</b> ∞ 1		
	1243	15.72	2.281	4.76	9.40	-38	0.5	Replaced LOLL		
				· · · ·						
_ -								·		
				5						
Γ			, <u>.</u>							
F	I	Analytical Par	ameters (includ	e analysis n	nethod a	nd num	ber and type of sample	containers)		
$\vdash$				3TEX 80218	(3v40ml		<u>, , , , , , , , , , , , , , , , , , , </u>	· · · · · · · · · · · · · · · · · · ·		
			Disposal of Purg	ged Water:		Into 5	5 Gallon Drum for Prop	per Disposal		
	Col	lected Sampl	es Stored on Ice	in Cooler:	•		Yes			
		Chain of (	Custody Record	Complete:		<u> </u>	Yes			
		an Marala Angel	Analytical L	aboratory:	ALS Envi	ronment	al Laboratory			
	Equip	ment Used Di	ring Sampling:	Keck Water	· Level or	Keck In	terface Level, YSI Water	Quality Meter		
		``	and Per	ristalitic-Pur	np Bui	15		······································		
N	lotes/Com	ments:								
L										
				-10						
	revised: 08	3/10/09								

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Appendix B.



26-Mar-2014

Heather Woods Animas Environmental Services 624 E. Comanche Farmington, NM 87401

Tel: (505) 436-2064 Fax: (505) 324-2022

Re: Lateral 6C Pipeline Release

Work Order: 14030737

Dear Heather,

ALS Environmental received 15 samples on 18-Mar-2014 09:09 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 29.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Bithany ME Daniel

Electronically approved by: Dayna.Fisher
Bethany McDaniel

Project Manager



Certificate No: T104704231-13-12

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887 ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

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www.alsglobal.com

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Client:	Animas Environmental Services
Project:	Lateral 6C Pipeline Release
Work Order:	14030737

## Work Order Sample Summary

Lab Samp ID	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<b>Collection Date</b>	<b>Date Received</b>	<u>Hold</u>
14030737-01	MW-2	Aqueous		3/14/2014 16:15	3/18/2014 09:09	
14030737-02	MW-3	Aqueous		3/14/2014 15:56	3/18/2014 09:09	
14030737-03	MW-4	Aqueous		3/14/2014 15:33	3/18/2014 09:09	
14030737-04	MW-5	Aqueous		3/14/2014 13:03	3/18/2014 09:09	
14030737-05	MW-6	Aqueous		3/14/2014 11:46	3/18/2014 09:09	
14030737-06	MW-7	Aqueous		3/14/2014 12:38	3/18/2014 09:09	
14030737-07	MW-8	Aqueous		3/14/2014 13:29	3/18/2014 09:09	
14030737-08	MW-9	Aqueous		3/14/2014 12:11	3/18/2014 09:09	
14030737-09	MW-10	Aqueous		3/14/2014 15:14	3/18/2014 09:09	
14030737-10	MW-11	Aqueous		3/14/2014 14:56	3/18/2014 09:09	
14030737-11	MW-12	Aqueous		3/14/2014 14:00	3/18/2014 09:09	
14030737-12	MW-13	Aqueous		3/14/2014 14:37	3/18/2014 09:09	
14030737-13	TW-1	Aqueous		3/14/2014 16:29	3/18/2014 09:09	
14030737-14	TW-2	Aqueous		3/14/2014 16:34	3/18/2014 09:09	
14030737-15	Trip Blank VBLKW-141003	Aqueous		3/14/2014	3/18/2014 09:09	$\checkmark$

### Date: 26-Mar-14

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## **ALS Environmental**

Client:	Animas Environmental Services	
Project:	Lateral 6C Pipeline Release	Case Narrative
Work Order:	14030737	

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-2Lab ID: 14030737-01Collection Date:3/14/2014 04:15 PMMatrix: AQUEOUSReportDilution

Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
BTEX BY SW8021B			SW8021	В		Analyst: DNR
m,p-Xylene	530		20	ug/L	10	3/21/2014 01:27 PM
o-Xylene	170		1	ug/L	1	3/21/2014 02:37 AM
Benzene	1,200		10	ug/L	10	3/21/2014 01:27 PM
Toluene	1,600		10	ug/L	10	3/21/2014 01:27 PM
Ethylbenzene	74		1	ug/L	1	3/21/2014 02:37 AM
Xylenes, Total	660		30	ug/L	10	3/21/2014 01:27 PM
Surr: 4-Bromofluorobenzene	92.6		75-129	%REC	10	3/21/2014 01:27 PM
Surr: 4-Bromofluorobenzene	104		75-129	%REC	1	3/21/2014 02:37 AM
Surr: Trifluorotoluene	107		75-130	%REC	10	3/21/2014 01:27 PM
Surr: Trifluorotoluene	94.6		75-130	%REC	1	3/21/2014 02:37 AM

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-3Lab ID: 14030737-02Collection Date:3/14/2014 03:56 PMMatrix: AQUEOUSReportDilution

Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
BTEX BY SW8021B			SW8021	В		Analyst: DNR
m,p-Xylene	27		2	ug/L	1	3/21/2014 02:54 AM
o-Xylene	22		1	ug/L	1	3/21/2014 02:54 AM
Benzene	200		5	i ug/L	5	3/21/2014 01:44 PM
Toluene	86		1	ug/L	1	3/21/2014 02:54 AM
Ethylbenzene	4		1	ug/L	1	3/21/2014 02:54 AM
Xylenes, Total	49		3	ug/L	1	3/21/2014 02:54 AM
Surr: 4-Bromofluorobenzene	92.6		75-129	9 %REC	5	3/21/2014 01:44 PM
Surr: 4-Bromofluorobenzene	97.8		75-129	9 %REC	1	3/21/2014 02:54 AM
Surr: Trifluorotoluene	95.4		75-130	) %REC	5	3/21/2014 01:44 PM
Surr: Trifluorotoluene	127		75-130	%REC	1	3/21/2014 02:54 AM

Analyses		Result	Qual	Report Limit	Unita	Dilution		Data Analyza
Collection Date:	3/14/2014 03:33 PM					Matrix: A	AQUEOUS	
Sample ID:	MW-4					Lab ID: 1	4030737-03	
Project:	Lateral 6C Pipeline Relea	ase			V	Vork Order: 1	4030737	
Client:	Animas Environmental S	ervices						

Analyses	Result	Qual Limit	Units	Factor	Date Analyzed
BTEX BY SW8021B		SW8021	В		Analyst: DNR
m,p-Xylene	ND	:	2 ug/L	1	3/21/2014 03:12 AM
o-Xylene	ND		1 ug/L	1	3/21/2014 03:12 AM
Benzene	4		1 ug/L	1	3/21/2014 03:12 AM
Toluene	ND		1 ug/L	1	3/21/2014 03:12 AM
Ethylbenzene	ND		1 ug/L	1	3/21/2014 03:12 AM
Xylenes, Total	ND	:	3 ug/L	1	3/21/2014 03:12 AM
Surr: 4-Bromofluorobenzene	84.2	75-12	9 %REC	1	3/21/2014 03:12 AM
Surr: Trifluorotoluene	86.4	75-13	0 %REC	1	3/21/2014 03:12 AM

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-5Lab ID: 14030737-04Collection Date:3/14/2014 01:03 PMMatrix: AQUEOUSReport Dilution

Analyses	Result	Qual	Limit 1	Units	Factor	Date Analyzed
BTEX BY SW8021B	SW8021B					Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 03:29 AM
o-Xylene	ND		1	ug/L	1	3/21/2014 03:29 AM
Benzene	ND		1	ug/L	1	3/21/2014 03:29 AM
Toluene	ND		1	ug/L	1	3/21/2014 03:29 AM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 03:29 AM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 03:29 AM
Surr: 4-Bromofluorobenzene	91.1		75-129	%REC	1	3/21/2014 03:29 AM
Surr: Trifluorotoluene	96.6		75-130	%REC	1	3/21/2014 03:29 AM
## Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-6Lab ID: 14030737-05Collection Date:3/14/2014 11:46 AMMatrix: AQUEOUS

Analyses	Result	Report Qual Limit (	J <b>nits</b>	Dilution Factor	Date Analyzed
BTEX BY SW8021B		SW8021E	5		Analyst: DNR
m,p-Xylene	970	10	ug/L	5	3/21/2014 02:01 PM
o-Xylene	13	1	ug/L	1	3/21/2014 04:21 AM
Benzene	ND	1	ug/L	1	3/21/2014 04:21 AM
Toluene	ND	1	ug/L	1	3/21/2014 04:21 AM
Ethylbenzene	150	1	ug/L	1	3/21/2014 04:21 AM
Xylenes, Total	990	15	ug/L	5	3/21/2014 02:01 PM
Surr: 4-Bromofluorobenzene	97.3	75-129	%REC	5	3/21/2014 02:01 PM
Surr: 4-Bromofluorobenzene	89.4	75-129	%REC	1	3/21/2014 04:21 AM
Surr: Trifluorotoluene	96.0	75-130	%REC	5	3/21/2014 02:01 PM
Surr: Trifluorotoluene	75.9	75-130	%REC	1	3/21/2014 04:21 AM

Analyses		Result	Qual	Report Limit	Unite	Dilution		Data Analyzad
<b>Collection Date:</b>	3/14/2014 12:38 PM					Matrix:	AQUEOUS	
Sample ID:	MW-7					Lab ID:	14030737-06	
Project:	Lateral 6C Pipeline Rele	ease			V	Vork Order:	14030737	
Client:	Animas Environmental S	Services						

Analyses	Result Qua	al Limit Uni	its Factor	Date Analyzed
BTEX BY SW8021B		SW8021B		Analyst: DNR
m,p-Xylene	ND	2 ug	g/L 1	3/21/2014 03:46 AM
o-Xylene	ND	1 ug	g/L 1	3/21/2014 03:46 AM
Benzene	ND	1 ug	g/L 1	3/21/2014 03:46 AM
Toluene	ND	1 ug	g/L 1	3/21/2014 03:46 AM
Ethylbenzene	ND	1 ug	g/L 1	3/21/2014 03:46 AM
Xylenes, Total	ND	3 ug	g/L 1	3/21/2014 03:46 AM
Surr: 4-Bromofluorobenzene	95.7	75-129 %	REC 1	3/21/2014 03:46 AM
Surr: Trifluorotoluene	90.0	75-130 %	REC 1	3/21/2014 03:46 AM
Surr: 4-Bromofluorobenzene Surr: Trifluorotoluene	95.7 90.0	75-129 % 75-130 %	REC 1 REC 1	3/21/2014 03:46 AM 3/21/2014 03:46 AM

Analyses		Result	Qual	Report Limit	Unite	Dilution		Date Analyzed
<b>Collection Date:</b>	3/14/2014 01:29 PM					Matrix:	AQUEOUS	
Sample ID:	MW-8					Lab ID:	14030737-07	
Project:	Lateral 6C Pipeline Relea	ase			V	Vork Order:	14030737	
Client:	Animas Environmental S	ervices						

Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
BTEX BY SW8021B			SW8021E	3		Analyst: DNR
m,p-Xylene	170		2	ug/L	1	3/21/2014 04:04 AM
o-Xylene	41		1	ug/L	1	3/21/2014 04:04 AM
Benzene	66		1	ug/L	1	3/21/2014 04:04 AM
Toluene	190		1	ug/L	1	3/21/2014 04:04 AM
Ethylbenzene	10		1	ug/L	1	3/21/2014 04:04 AM
Xylenes, Total	210		3	ug/L	1	3/21/2014 04:04 AM
Surr: 4-Bromofluorobenzene	99.6		75-129	%REC	1	3/21/2014 04:04 AM
Surr: Trifluorotoluene	101		75-130	%REC	1	3/21/2014 04:04 AM

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-9Lab ID: 14030737-08Collection Date:3/14/2014 12:11 PMMatrix: AQUEOUSReport Dilution

Analyses	Result	Qual Limit	Units	Factor	Date Analyzed
BTEX BY SW8021B		SW8021	В		Analyst: DNR
m,p-Xylene	ND	2	2 ug/L	1	3/21/2014 02:36 PM
o-Xylene	ND		ug/L	1	3/21/2014 02:36 PM
Benzene	ND		ug/L	1	3/21/2014 02:36 PM
Toluene	ND		ug/L	1	3/21/2014 02:36 PM
Ethylbenzene	ND		ug/L	1	3/21/2014 02:36 PM
Xylenes, Total	ND	3	8 ug/L	1	3/21/2014 02:36 PM
Surr: 4-Bromofluorobenzene	91.1	75-129	9 %REC	1	3/21/2014 02:36 PM
Surr: Trifluorotoluene	94.7	75-130	%REC	1	3/21/2014 02:36 PM

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-10Lab ID: 14030737-09Collection Date:3/14/2014 03:14 PMMatrix: AQUEOUSReportDilution

Analyses	Result	Qual	Report Limit 1	Units	Dilution Factor	Date Analyzed
BTEX BY SW8021B			SW8021E	3		Analyst: <b>DNR</b>
m,p-Xylene	26		2	ug/L	1	3/21/2014 02:54 PM
o-Xylene	2		1	ug/L	1	3/21/2014 02:54 PM
Benzene	560		5	ug/L	5	3/24/2014 12:11 PM
Toluene	4		1	ug/L	1	3/21/2014 02:54 PM
Ethylbenzene	16		1	ug/L	1	3/21/2014 02:54 PM
Xylenes, Total	27		3	ug/L	1	3/21/2014 02:54 PM
Surr: 4-Bromofluorobenzene	94.6		75-129	%REC	5	3/24/2014 12:11 PM
Surr: 4-Bromofluorobenzene	94.0		75-129	%REC	1	3/21/2014 02:54 PM
Surr: Trifluorotoluene	92.0		75-130	%REC	5	3/24/2014 12:11 PM
Surr: Trifluorotoluene	119		75-130	%REC	1	3/21/2014 02:54 PM

## Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-11Lab ID: 14030737-10Collection Date:3/14/2014 02:56 PMMatrix: AQUEOUS

Analyses	Result	Report Qual Limit (	J <b>nits</b>	Dilution Factor	Date Analyzed
BTEX BY SW8021B		SW8021B	Analyst: DNR		
m,p-Xylene	ND	2	ug/L	1	3/21/2014 03:11 PM
o-Xylene	ND	1	ug/L	1	3/21/2014 03:11 PM
Benzene	ND	1	ug/L	1	3/24/2014 11:53 AM
Toluene	ND	1	ug/L	1	3/21/2014 03:11 PM
Ethylbenzene	ND	1	ug/L	1	3/21/2014 03:11 PM
Xylenes, Total	ND	3	ug/L	1	3/21/2014 03:11 PM
Surr: 4-Bromofluorobenzene	93.7	75-129	%REC	1	3/24/2014 11:53 AM
Surr: 4-Bromofluorobenzene	92.8	75-129	%REC	1	3/21/2014 03:11 PM
Surr: Trifluorotoluene	87.6	75-130	%REC	1	3/24/2014 11:53 AM
Surr: Trifluorotoluene	95.0	75-130	%REC	1	3/21/2014 03:11 PM

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-12Lab ID: 14030737-11Collection Date:3/14/2014 02:00 PMMatrix: AQUEOUSReport Dilution

Analyses	Result	Qual	Limit 1	Units	Factor	Date Analyzed
BTEX BY SW8021B			SW8021E	3		Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 03:28 PM
o-Xylene	ND		1	ug/L	1	3/21/2014 03:28 PM
Benzene	ND		1	ug/L	1	3/21/2014 03:28 PM
Toluene	ND		1	ug/L	1	3/21/2014 03:28 PM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 03:28 PM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 03:28 PM
Surr: 4-Bromofluorobenzene	98.0		75-129	%REC	1	3/21/2014 03:28 PM
Surr: Trifluorotoluene	102		75-130	%REC	1	3/21/2014 03:28 PM

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:MW-13Lab ID: 14030737-12Collection Date:3/14/2014 02:37 PMMatrix: AQUEOUSReport Dilution

Analyses	Result	Qual	Limit 1	Units	Factor	Date Analyzed
BTEX BY SW8021B			SW8021E	3		Analyst: DNR
m,p-Xylene	2		2	ug/L	1	3/24/2014 10:58 AM
o-Xylene	ND		1	ug/L	1	3/24/2014 10:58 AM
Benzene	ND		1	ug/L	1	3/24/2014 10:58 AM
Toluene	ND		1	ug/L	1	3/24/2014 10:58 AM
Ethylbenzene	ND		1	ug/L	1	3/24/2014 10:58 AM
Xylenes, Total	ND		3	ug/L	1	3/24/2014 10:58 AM
Surr: 4-Bromofluorobenzene	97.9		75-129	%REC	1	3/24/2014 10:58 AM
Surr: Trifluorotoluene	93.4		75-130	%REC	1	3/24/2014 10:58 AM

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:TW-1Lab ID: 14030737-13Collection Date:3/14/2014 04:29 PMMatrix: AQUEOUSReportDilution

Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
BTEX BY SW8021B			SW8021E	3		Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 04:03 PM
o-Xylene	ND		1	ug/L	1	3/21/2014 04:03 PM
Benzene	ND		1	ug/L	1	3/21/2014 04:03 PM
Toluene	ND		1	ug/L	1	3/21/2014 04:03 PM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 04:03 PM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 04:03 PM
Surr: 4-Bromofluorobenzene	89.9		75-129	%REC	1	3/21/2014 04:03 PM
Surr: Trifluorotoluene	93.0		75-130	%REC	1	3/21/2014 04:03 PM

# Client:Animas Environmental ServicesProject:Lateral 6C Pipeline ReleaseWork Order: 14030737Sample ID:TW-2Lab ID: 14030737-14Collection Date:3/14/2014 04:34 PMMatrix: AQUEOUSReportDilution

Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
BTEX BY SW8021B			SW8021E	3		Analyst: DNR
m,p-Xylene	ND		2	ug/L	1	3/21/2014 04:20 PM
o-Xylene	ND		1	ug/L	1	3/21/2014 04:20 PM
Benzene	ND		1	ug/L	1	3/21/2014 04:20 PM
Toluene	ND		1	ug/L	1	3/21/2014 04:20 PM
Ethylbenzene	ND		1	ug/L	1	3/21/2014 04:20 PM
Xylenes, Total	ND		3	ug/L	1	3/21/2014 04:20 PM
Surr: 4-Bromofluorobenzene	90.5		75-129	%REC	1	3/21/2014 04:20 PM
Surr: Trifluorotoluene	93.4		75-130	%REC	1	3/21/2014 04:20 PM

**Work Order:** 14030737

Client: Animas Environmental Services

Project: Lateral 6C Pipeline Release

## **DATES REPORT**

Sample ID	Client Sa	mple ID	Matrix	<b>Collection Date</b>	TCLP Date	Prep Date	Analysis Date	
Batch ID:	R163224	Test Name: B	TEX by SW802	<u>1B</u>				
14030737-01	A MW-2		Aqueous	3/14/2014 4:15:00 PM			3/21/2014 02:37 AM	
14030737-02	A MW-3			3/14/2014 3:56:00 PM			3/21/2014 02:54 AM	
14030737-03	A MW-4			3/14/2014 3:33:00 PM			3/21/2014 03:12 AM	
14030737-04	A MW-5			3/14/2014 1:03:00 PM			3/21/2014 03:29 AM	
14030737-05	A MW-6			3/14/2014 11:46:00 AM			3/21/2014 04:21 AM	
14030737-06	A MW-7			3/14/2014 12:38:00 PM			3/21/2014 03:46 AM	
14030737-07	A MW-8			3/14/2014 1:29:00 PM			3/21/2014 04:04 AM	
Batch ID:	R163256	<u>Test Name:</u> BI	<u>ГЕХ by SW802</u>	<u>1B</u>				
14030737-01	A MW-2		Aqueous	3/14/2014 4:15:00 PM			3/21/2014 01:27 PM	
14030737-02	A MW-3			3/14/2014 3:56:00 PM			3/21/2014 01:44 PM	
14030737-05	A MW-6			3/14/2014 11:46:00 AM			3/21/2014 02:01 PM	
14030737-08	A MW-9			3/14/2014 12:11:00 PM			3/21/2014 02:36 PM	
14030737-09	A MW-10			3/14/2014 3:14:00 PM			3/21/2014 02:54 PM	
14030737-10	A MW-11			3/14/2014 2:56:00 PM			3/21/2014 03:11 PM	
14030737-11	A MW-12			3/14/2014 2:00:00 PM			3/21/2014 03:28 PM	
14030737-13	A TW-1			3/14/2014 4:29:00 PM			3/21/2014 04:03 PM	
14030737-14	A TW-2			3/14/2014 4:34:00 PM			3/21/2014 04:20 PM	
Batch ID:	<u>R163335</u>	<u>Test Name:</u> BI	<u>ГЕХ by SW802</u>	<u>1B</u>				
14030737-09	A MW-10		Aqueous	3/14/2014 3:14:00 PM			3/24/2014 12:11 PM	
14030737-10	A MW-11			3/14/2014 2:56:00 PM			3/24/2014 11:53 AM	
14030737-12	A MW-13			3/14/2014 2:37:00 PM			3/24/2014 10:58 AM	

Client:	Animas Environmental Services
Work Order:	14030737
Project:	Lateral 6C Pipeline Release

#### Date: 26-Mar-14

## **QC BATCH REPORT**

Batch ID: R163224

Instrument ID BTEX1

38.32

2.0

Method: SW8021B

MBLK	Sample ID: BBLKW1-140	320-R163224				Units: µg/		Analy	/sis Date: <b>3</b> /	/20/2014 0	9:25 PM
Client ID:		Run IE	BTEX1_	_140320B		SeqNo:357	2908	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene		ND	2.0								
o-Xylene		ND	1.0								
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzen	e	ND	1.0								
Xylenes, Tot	al	ND	3.0								
Surr: 4-Br	romofluorobenzene	24.85	1.0	30		0 82.8	75-129		0		
Surr: Trifle	uorotoluene	27.35	1.0	30		0 91.2	75-130		0		
LCS	Sample ID: BLCSS1-1403	320-R163224				Units: µg/	L	Analy	/sis Date: 3	/20/2014 0	8:51 PM
Client ID:		Run IE	: BTEX1_	_140320B		SeqNo:357	2907	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

o-Xylene	19.73	1.0	20	0	98.6	75-125		
Benzene	18.62	1.0	20	0	93.1	75-126		
Toluene	18.62	1.0	20	0	93.1	75-125		
Ethylbenzene	18.97	1.0	20	0	94.8	75-125		
Xylenes, Total	58.05	3.0	60	0	96.8	75-125		
Surr: 4-Bromofluorobenzene	24.66	1.0	30	0	82.2	75-129	0	
Surr: Trifluorotoluene	26.52	1.0	30	0	88.4	75-130	0	

0

95.8

75-125

40

MS	Sample ID: 14030720-21AMS					ι	Jnits:µg/L	-	Analy	/sis Date: 3	/20/2014	10:00 PM
Client ID:		Run	ID: BTEX1_	_140320B		Se	qNo: <b>3572</b>	2910	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene		37.18	2.0	40		0	93	75-125				
o-Xylene		19.19	1.0	20		0	96	75-125				
Benzene		18.43	1.0	20		0	92.2	75-126				
Toluene		18.29	1.0	20		0	91.4	75-125				
Ethylbenzene	9	18.46	1.0	20		0	92.3	75-125				
Xylenes, Tota	al	56.37	3.0	60		0	94	75-125				
Surr: 4-Bro	omofluorobenzene	24.28	1.0	30		0	80.9	75-129		0		
Surr: Triflu	iorotoluene	26.59	1.0	30		0	88.6	75-130		0		

Note:

m,p-Xylene

## QC BATCH REPORT

Batch ID: R163224 Instrument ID BTEX1 Method: SW8021B

MSD Sample ID: 14030720-2	21AMSD				U	Jnits:µg/L	-	Analysi	s Date: 3/2	20/2014 1	0:17 PM
Client ID:	Run ID	BTEX1	_140320B		Se	qNo: <b>3572</b>	2911	Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	37.51	2.0	40		0	93.8	75-125	37.18	0.881	20	
o-Xylene	19.32	1.0	20		0	96.6	75-125	19.19	0.691	20	
Benzene	18.38	1.0	20		0	91.9	75-126	18.43	0.298	20	
Toluene	18.26	1.0	20		0	91.3	75-125	18.29	0.127	20	
Ethylbenzene	18.53	1.0	20		0	92.7	76-125	18.46	0.377	20	
Xylenes, Total	56.84	3.0	60		0	94.7	75-125	56.37	0.816	20	
Surr: 4-Bromofluorobenzene	25.21	1.0	30		0	84	75-129	24.28	3.73	20	
Surr: Trifluorotoluene	26.7	1.0	30		0	89	75-130	26.59	0.402	20	
The following samples were analyz	ed in this batch:	14 14	030737-01	A 14 A 14	030	737-02A 737-06A	14 14	030737-03A 030737-07A	140307	37-04A	

Batch ID: R163256

## QC BATCH REPORT

Instrument ID BTEX1 Method: SW8021B

MBLK	Sample ID: BBLKW1-140	)321-R163256				Units: µg/L	-	Analy	ysis Date: 3	/21/2014 [·]	11:33 AM
Client ID:		Run II	D: BTEX1_	_140321A		SeqNo:3573	3626	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene		ND	2.0								
o-Xylene		ND	1.0								
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzen	e	ND	1.0								
Xylenes, Tot	tal	ND	3.0								
Surr: 4-Br	romofluorobenzene	24.54	1.0	30		0 81.8	75-129		0		
Surr: Trifle	uorotoluene	26.4	1.0	30		0 88	75-130	1	0		

LCS	Sample ID: BLCSS1-1403	21-R163256				Ur	nits:µg/L		Analy	vsis Date: 3	/21/2014 ′	10:59 AM
Client ID:		Run II	D: BTEX1_	_140321A		Seq	No: <b>3573</b>	8625	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene		38.18	2.0	40		0	95.4	75-125				
o-Xylene		19.02	1.0	20	(	0	95.1	75-125				
Benzene		18.89	1.0	20		0	94.5	75-126				
Toluene		18.77	1.0	20		0	93.8	75-125				
Ethylbenzene	9	18.83	1.0	20		0	94.2	75-125				
Xylenes, Tota	al	57.2	3.0	60		0	95.3	75-125				
Surr: 4-Bro	omofluorobenzene	25.48	1.0	30		0	84.9	75-129		0		
Surr: Triflu	lorotoluene	26.84	1.0	30	1	0	89.5	75-130		0		

MS	Sample ID: 14030793-01AMS	;				ι	Inits:µg/L		Analy	sis Date: 3	/21/2014 1	2:35 PM
Client ID:		Rur	ID: BTEX1_	_140321A		Se	qNo: <b>357</b> 3	8628	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene		39.99	2.0	40		0	100	75-125				
o-Xylene		19.82	1.0	20		0	99.1	75-125				
Benzene		19.76	1.0	20		0	98.8	75-126				
Toluene		19.6	1.0	20		0	98	75-125				
Ethylbenzene	9	19.71	1.0	20		0	98.6	75-125				
Xylenes, Tota	al	59.81	3.0	60		0	99.7	75-125				
Surr: 4-Bro	omofluorobenzene	27.78	1.0	30		0	92.6	75-129		0		
Surr: Triflu	iorotoluene	28.69	1.0	30		0	95.6	75-130		0		

Batch ID: R163256 Instrument ID BTEX1 Method: SW8021B

MSD Sample ID: 14030793-0	01AMSD				ι	Jnits:µg/L	-	Analysi	s Date: 3/2	21/2014 1	2:52 PM
Client ID:	Run ID	BTEX1	_140321A		Se	qNo: <b>357</b> ;	3629	Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	39.38	2.0	40		0	98.5	75-125	39.99	1.53	20	
o-Xylene	19.67	1.0	20		0	98.3	75-125	19.82	0.782	20	
Benzene	19.45	1.0	20		0	97.3	75-126	19.76	1.58	20	
Toluene	19.23	1.0	20		0	96.1	75-125	19.6	1.91	20	
Ethylbenzene	19.31	1.0	20		0	96.6	76-125	19.71	2.06	20	
Xylenes, Total	59.05	3.0	60		0	98.4	75-125	59.81	1.28	20	
Surr: 4-Bromofluorobenzene	28.11	1.0	30		0	93.7	75-129	27.78	1.15	20	
Surr: Trifluorotoluene	29.08	1.0	30		0	96.9	75-130	28.69	1.34	20	
The following samples were analyz	ed in this batch:	14 14 14	030737-01/ 030737-09/ 030737-14/	A 14 A 14 A	030	737-02A 737-10A	14) 14)	030737-05A 030737-11A	140307 140307	37-08A 37-13A	

Batch ID: R163335

## QC BATCH REPORT

Instrument ID BTEX1 Method: SW8021B

MBLK	Sample ID: BBLKW1-14	40324-R163335				Units: µg/L	-	Analy	/sis Date: 3	<b>/24/2014</b> 1	10:41 AM
Client ID:		Run II	D: BTEX1_	_140324A		SeqNo:3575	5168	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene		ND	2.0								
o-Xylene		ND	1.0								
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzen	e	ND	1.0								
Xylenes, Tot	al	ND	3.0								
Surr: 4-Br	romofluorobenzene	29.52	1.0	30		0 98.4	75-129	1	0		
Surr: Triflu	uorotoluene	28.45	1.0	30		0 94.8	75-130	1	0		

LCS	Sample ID: BLCSS1-140324-	R163335				ι	Jnits:µg/L		Analy	vsis Date: 3	/24/2014 ^	10:06 AM
Client ID:		Run	ID: BTEX1	_140324A		Se	qNo: <b>357</b>	5167	Prep Date:		DF: <b>1</b>	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene		38.04	2.0	40		0	95.1	75-125				
o-Xylene		18.89	1.0	20		0	94.4	75-125				
Benzene		18.69	1.0	20		0	93.5	75-126				
Toluene		18.48	1.0	20		0	92.4	75-125				
Ethylbenzene	9	18.63	1.0	20		0	93.1	75-125				
Xylenes, Tota	al	56.92	3.0	60		0	94.9	75-125				
Surr: 4-Bro	omofluorobenzene	28.3	1.0	30		0	94.3	75-129		0		
Surr: Triflu	lorotoluene	28.57	1.0	30		0	95.2	75-130		0		

MS Sample ID: 14	030737-12AMS			ι	Jnits:µg/L		Analysis Date: 3/24/2014 11:19 A				
Client ID: MW-13	Run	Run ID: BTEX1_140324A			qNo: <b>357</b>	5170	Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
m,p-Xylene	41.18	2.0	40	2.288	97.2	75-125					
o-Xylene	19.85	1.0	20	0	99.2	75-125					
Benzene	20.09	1.0	20	0	100	75-126					
Toluene	20.58	1.0	20	0	103	75-125					
Ethylbenzene	19.94	1.0	20	0	99.7	75-125					
Xylenes, Total	61.03	3.0	60	2.288	97.9	75-125					
Surr: 4-Bromofluorobenze	ne 29.1	1.0	30	0	97	75-129	I	0			
Surr: Trifluorotoluene	27.93	1.0	30	0	93.1	75-130		0			

Lateral de Tipenne Release

Batch ID: R163335	Instrument ID	BTEX1		Method	: SW8021B						
MSD Sample	ID: 14030737-12A	MSD			l	Units:µg/L	-	Analys	is Date: <b>3/</b>	24/2014 1	1:36 AM
Client ID: MW-13 Run IE			BTEX1	_140324A	Se	eqNo: <b>357</b>	5171	Prep Date:	DF: <b>1</b>		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene		41.13	2.0	40	2.288	97.1	75-125	41.18	0.121	20	
o-Xylene		20.01	1.0	20	0	100	75-125	19.85	0.794	20	
Benzene		20.07	1.0	20	0	100	75-126	20.09	0.097	20	
Toluene		20.44	1.0	20	0	102	75-125	20.58	0.67	20	
Ethylbenzene		19.67	1.0	20	0	98.3	76-125	19.94	1.36	20	
Xylenes, Total		61.14	3.0	60	2.288	98.1	75-125	61.03	0.177	20	
Surr: 4-Bromofluoro	benzene	29.46	1.0	30	0	98.2	75-129	29.1	1.25	20	
Surr: Trifluorotoluen	пе	27.54	1.0	30	0	91.8	75-130	27.93	1.39	20	
The following sample	14	030737-09A	14030	)737-10A	14	030737-12A					

Client: Project: WorkOrder:	Animas Environmental Services Lateral 6C Pipeline Release 14030737	QUALIFIERS, ACRONYMS, UNITS
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
B	Analyte detected in the associated Method Blank above the Repor	ting Limit
E	Value above quantitation range	
Н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
М	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is $> 4$ times amount spiked	
Р	Dual Column results percent difference $> 40\%$	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL	
Acronym	Description	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitation Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Units Reported	Description	

ug/L Micrograms per Liter

#### Sample Receipt Checklist

Client Name: <u>A</u>	NIMAS ENVIRONMENTAL SER			Date/Time I	Received:	18-Mar-1	4 <u>09:09</u>	
Work Order: <u>1</u>	<u>4030737</u>			Received by	y:	<u>JEM</u>		
Checklist complet	ted by <i>Lohnnie B. Allen</i> eSignature	19-Mar-14 Date	4	Reviewed by:	Bethany W eSignature	1eDaniek	2	
Matrices: Carrier name:	<u>water</u> FedEx Priority Overnight							
Shipping containe	er/cooler in good condition?	Yes	✓	No 🗌	Not Prese	nt 🗌		
Custody seals inta	act on shipping container/cooler?	Yes	✓	No 🗌	Not Prese	nt 🗌		
Custody seals inta	act on sample bottles?	Yes		No 🗌	Not Prese	nt 🗹		
Chain of custody	present?	Yes	✓	No 🗌				
Chain of custody	signed when relinquished and rec	eived? Yes	✓	No 🗌				
Chain of custody	agrees with sample labels?	Yes	✓	No 🗌				
Samples in prope	er container/bottle?	Yes	✓	No 🗌				
Sample container	rs intact?	Yes	✓	No 🗌				
Sufficient sample	volume for indicated test?	Yes	✓	No 🗌				
All samples receiv	ved within holding time?	Yes	✓	No 🗌				
Container/Temp E	Blank temperature in compliance?	Yes	✓	No 🗌				
Temperature(s)/T	hermometer(s):	1.2 C/	1.2 C	<u>u/c</u>	<u>IR 1</u>	-	]	
Cooler(s)/Kit(s):		<u>2924</u>					]	
Date/Time sample	e(s) sent to storage:	<u>3/19 1</u> Ves	5:00	No		submitted		
Water - NH accen	s have zero headspace?	Yes				oubinitieu		
pH adjusted?		Yes			N/A			
pH adjusted by:							]	
Login Notes:	Trip Blank VBLKW141003; TW	-1 &TW-2 contain appx	45%	sediment				
Client Contacted:	Da	ate Contacted:		Person	Contacted:			
Contacted By:	Re	egarding:						
							1	
Comments:								
							]	
CorrectiveAction:								

14030737 Invironmental Services Animas Environmental Services Project: Lateral 6C Pipeline Release									E F G H I J Hold											Results Due Date:		p. QC Package: (Check One Box Below)	M Level II Std QC Level II Std QC Level II Std QC/Raw Data TRRP Level IV Level IV StMRA6/CI P		Copyright 2011 by ALS Environmental.
ST ANIMAS	ß	Ö	Q	<u>u</u> 1.	U	H			A B C D	×.	×	~					~	~	X	Check Box)	Notes:   V	Cooler ID Cooler Terr	- hebe		nditions stated on the rever
of Custody Fo age <u>1 of 2</u> coc ID: 10268 ALS Project Manager. ation e Release		tts			03				Pres. # Bottles	\$		~	3	M _	M -	<u>N</u>	6	3	( 3	equired Turnaround Time: (C VI Std 10 WK Davs	- gice 3-10	, 0		1er 8-4°C 9-5035	wironmental. y limited to the terms and co
Chain Chain Project Inform		Enterprise Produc	Farah Ullah	1100 Louisiana	Hosuton, TX 770	(713) 381-4357		fullah@eprod.con	Time Matrix	ois Ag	556 Ar	533 4,	303 A.	NY6 AG	236 Ai	329 A.	211 Ag	SIY A	456 Aq	thod Re	Wether Willie	stred by (Laboratory):	cked by (Laboratory):	6-NaHSO, 7-Ott	submitted to ALS Er mmental are expressl accurately.
Fort Collins, CC +1 970 490 15 Holland, MI +1 616 399 60	Project Number	Bill To Company	Invoice Attn	Address	City/State/Zip	Phone	Fax	e-Mail Address	Date	3/14/14 11		- 10%						~		$F_{\mathcal{E}}(\mathcal{E})$	me: Rec	me: Rec	me: Che	H 5-Na ₂ S ₂ O ₃	COC Form have been wided by ALS Envirc a must be completed
Cincinnati, OH +1 513 733 5336 Evereti, WA +1 425 356 2600 +1 425 356 2600	nev a don fer a service da se	Services					and a second	onmental.com												53	Date:	Date: T	Date: T	3-H2SO4 4-NaO	ng once samples and ( contract, services pro ument. All informatio
LS nmental Justomer Informatic		Animas Environmental	Heather Woods	624 E. Comanche	Farmington, NM 8740	(505) 564-2281	(505) 324-2022	hwoods@animasenviro	Sample Description										, end	nint & Sign U.C.	Let 12 million		*	1-HCI 2-HNO3	es must be made in writh rwise agreed in a formal of Custody is a legal doct
Enviro	Work Order	Company Name	Send Report To	Address	City/State/Zip	Phone	Fax	e-Mail Address	No.	1 MW-2	2 MW-3	3 MW · 4	4 MW-5	5 MW-lo	5 MW-7	7 MW-B	8 MW-9	01-WW 6	10 M W - 11	Sampler(s) Please F	Relinquished by:	Relinquished by:	Logged by (Laboratory	Preservative Key:	Note: 1. Any change 2. Unless othe 3. The Chain

27 of 29

29

28 of 29

## Cooler 2924

ALS Environmental Musicon, receptivity   Custrop     Housion, receptivity   Suite 210 Musicon, receptivity   Suite 210 Musicon, receptivity   Suite 210 Musicon, receptivity     Momentation   View and the suite						
Houston, Fexes 7709   Image 27117412 Unit   4332 pr     Monte 27117412 Unit   4332 pr     Company: 21112121 Er   4332 pr     Monte 271170   11112121     Monte 271170   111121     Monte 271170   111111     Monte 271170   1111111     Monte 271170   1111111     Monte 271170   1111111     Monte 271170   111111111     Monte 271170   111111111111111111111111111111111111	ALS	ALS Environmental 10450 Stancliff Rd., Suite 210	CUSTOD		Seal Broken By:	بنيتيم منشيقي
ALS Environmental 10450 Stanciiff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5656 Fax. +1 281 530 5656 Y SEAL # 4/3 2 pr Soul Bricken By: Date:   Image: Stancing Rd. Stancing Rd. Standard Coversion Image: Stancing Rd. Stancing Rd. Standard Coversion Date:   Image: Stancing Rd. Stancing Rd. Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion Image: Standard Coversion Image: Standard Coversion   Image: Standard Coversion </th <th></th> <th>Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887</th> <th>Date: <u>371 F774</u> Timi Name: <u>Headhar Ula</u> Company: <u>Headhar Ula</u></th> <th>* <u>433 pm</u></th> <th>Date:</th> <th>-</th>		Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	Date: <u>371 F774</u> Timi Name: <u>Headhar Ula</u> Company: <u>Headhar Ula</u>	* <u>433 pm</u>	Date:	-
ALS Environmental 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 TUE - 18 MAR A/ Urroumintee TUE - 18 MAR A/ Standard OVERNIGH 77099 TX-UE TX-UE						
TUE - 18 MAR A/ TIVE - 18 MAR A/ STANDARD OVERNIGH 77099 TX-UE TX-UE TAH		ALS E 10450 Sta Houston, Tel. +1 28 Fax. +1 28	Environmental ncliff Rd., Suite 210 Texas 77099 1 530 5656 11 530 5887	Y SEAL = 433 pm Vironmentel	Seal Broken By: Date:	
		твк# 8042 5 <u>0215</u> 804 25 ХН С	TUE 199 0062 STANDA SGRA	- 18 MAR A/ RD OVERNIGHT 77099 TX-UE IAH		



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

September 16, 2014

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

RE: Trunk 6-C

OrderNo.: 1409436

Dear Brent Everett:

Hall Environmental Analysis Laboratory received 13 sample(s) on 9/10/2014 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.

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services			<b>Client Sampl</b>	e ID: MV	W-9	
Project:	Trunk 6-C			Collection 1	Date: 9/9	/2014 8:25:00 AM	
Lab ID:	1409436-001	Matrix:	AQUEOUS	<b>Received</b>	<b>Date:</b> 9/1	0/2014 6:30:00 AM	
Analyses		Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	2.0	µg/L	2	9/10/2014 5:51:08 PM	R21136
Toluene		ND	2.0	µg/L	2	9/10/2014 5:51:08 PM	R21136
Ethylben	zene	ND	2.0	µg/L	2	9/10/2014 5:51:08 PM	R21136
Xylenes,	Total	ND	4.0	µg/L	2	9/10/2014 5:51:08 PM	R21136
Surr: 4	I-Bromofluorobenzene	98.2	66.6-167	%REC	2	9/10/2014 5:51:08 PM	R21136

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

- 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 1 of 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services		0	lient Sam	ple ID: MV	W-10	
Project:	Trunk 6-C			Collection	<b>Date:</b> 9/9	/2014 11:38:00 AM	
Lab ID:	1409436-002	Matrix:	AQUEOUS	Received	<b>l Date:</b> 9/1	0/2014 6:30:00 AM	
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene		580	10	µg/L	10	9/12/2014 12:42:09 PM	R21183
Toluene		ND	10	µg/L	10	9/12/2014 12:42:09 PM	R21183
Ethylben	zene	34	10	µg/L	10	9/12/2014 12:42:09 PM	R21183
Xylenes,	Total	ND	20	µg/L	10	9/12/2014 12:42:09 PM	R21183
Surr: 4	I-Bromofluorobenzene	98.3	66.6-167	%REC	10	9/12/2014 12:42:09 PM	R21183

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

- 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 2 of 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services			Client Samp	le ID: MV	N-6	
Project:	Trunk 6-C			Collection	Date: 9/9	/2014 9:05:00 AM	
Lab ID:	1409436-003	Matrix:	AQUEOUS	Received	<b>Date: </b> 9/1	0/2014 6:30:00 AM	
Analyses		Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	5.0	µg/L	5	9/11/2014 4:32:51 PM	R21162
Toluene		ND	5.0	µg/L	5	9/11/2014 4:32:51 PM	R21162
Ethylben	zene	49	5.0	µg/L	5	9/11/2014 4:32:51 PM	R21162
Xylenes,	Total	400	10	µg/L	5	9/11/2014 4:32:51 PM	R21162
Surr: 4	I-Bromofluorobenzene	115	66.6-167	%REC	5	9/11/2014 4:32:51 PM	R21162

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	A
	Е	Value above quantitation range	Н	ł
	J	Analyte detected below quantitation limits	ND	ľ
	0	RSD is greater than RSDlimit	Р	S
	-			_

- 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 3 of 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis	s Laboratory, Inc.
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Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services		(	Client San	ple ID: MW-4	
Project:	Trunk 6-C			Collectio	n Date: 9/9/2014 10:39:00 AM	
Lab ID:	1409436-004	Matrix:	AQUEOUS	Receive	<b>d Date:</b> 9/10/2014 6:30:00 AM	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES				Analys	I NSB
Benzene		ND	2.0	µg/L	2 9/10/2014 10:22:43 PM	R21136
Toluene		ND	2.0	µg/L	2 9/10/2014 10:22:43 PM	R21136
Ethylben	zene	ND	2.0	µg/L	2 9/10/2014 10:22:43 PM	R21136
Xylenes,	Total	ND	4.0	µg/L	2 9/10/2014 10:22:43 PM	R21136
Surr: 4	-Bromofluorobenzene	98.8	66.6-167	%REC	2 9/10/2014 10:22:43 PM	R21136

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	
	Е	Value above quantitation range	
	J	Analyte detected below quantitation limits	Ν
	0	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 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services			Client Samp	e ID: MV	W-12	
Project:	Trunk 6-C			Collection 1	<b>Date:</b> 9/9	/2014 10:56:00 AM	
Lab ID:	1409436-005	Matrix:	AQUEOUS	<b>Received</b>	<b>Date: 9</b> /1	0/2014 6:30:00 AM	
Analyses		Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	2.0	µg/L	2	9/10/2014 10:52:55 PM	R21136
Toluene		ND	2.0	µg/L	2	9/10/2014 10:52:55 PM	R21136
Ethylben	zene	ND	2.0	µg/L	2	9/10/2014 10:52:55 PM	R21136
Xylenes,	Total	ND	4.0	µg/L	2	9/10/2014 10:52:55 PM	R21136
Surr: 4	I-Bromofluorobenzene	96.9	66.6-167	%REC	2	9/10/2014 10:52:55 PM	R21136

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

- 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 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services			<b>Client Sampl</b>	e ID: MV	W-11	
Project:	Trunk 6-C			Collection I	Date: 9/9	/2014 11:13:00 AM	
Lab ID:	1409436-006	Matrix:	AQUEOUS	Received l	<b>Date:</b> 9/1	0/2014 6:30:00 AM	
Analyses		Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene	•	ND	2.0	µg/L	2	9/10/2014 11:22:59 PM	R21136
Toluene		ND	2.0	µg/L	2	9/10/2014 11:22:59 PM	R21136
Ethylben	zene	ND	2.0	µg/L	2	9/10/2014 11:22:59 PM	R21136
Xylenes,	Total	ND	4.0	µg/L	2	9/10/2014 11:22:59 PM	R21136
Surr: 4	4-Bromofluorobenzene	98.8	66.6-167	%REC	2	9/10/2014 11:22:59 PM	R21136

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

- 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 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services		C	lient Samp	ole ID: MV	N-7	
Project:	Trunk 6-C			Collection	<b>Date:</b> 9/9	/2014 9:24:00 AM	
Lab ID:	1409436-007	Matrix:	AQUEOUS	Received	<b>Date:</b> 9/1	0/2014 6:30:00 AM	
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	1.0	µg/L	1	9/11/2014 5:03:00 PM	R21162
Toluene		ND	1.0	µg/L	1	9/11/2014 5:03:00 PM	R21162
Ethylben	zene	ND	1.0	µg/L	1	9/11/2014 5:03:00 PM	R21162
Xylenes,	Total	ND	2.0	µg/L	1	9/11/2014 5:03:00 PM	R21162
Surr: 4	1-Bromofluorobenzene	106	66.6-167	%REC	1	9/11/2014 5:03:00 PM	R21162

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
- 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 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Date Reported: 9/16/2014

Sample ID: MW-1	

<b>Project:</b> Trunk 6-C			Collection	<b>Date:</b> 9/9	0/2014 10:21:00 AM	
Lab ID: 1409436-008	Matrix:	AQUEOUS	Received	<b>Date:</b> 9/1	0/2014 6:30:00 AM	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	1900	50	µg/L	50	9/11/2014 12:23:21 AM	R21136
Toluene	440	50	µg/L	50	9/11/2014 12:23:21 AM	R21136
Ethylbenzene	54	50	µg/L	50	9/11/2014 12:23:21 AM	R21136
Xylenes, Total	400	100	µg/L	50	9/11/2014 12:23:21 AM	R21136
Surr: 4-Bromofluorobenzene	102	66.6-167	%REC	50	9/11/2014 12:23:21 AM	R21136

Client

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded

- Н Holding times for preparation or analysis exceeded ND
  - Not Detected at the Reporting Limit Page 8 of 15
- Р Sample pH greater than 2.
- RL Reporting Detection Limit
- RPD outside accepted recovery limits R

Analyte detected below quantitation limits

RSD is greater than RSDlimit

J

0

Spike Recovery outside accepted recovery limits S

Hall Environmental	Analysis	Laboratory,	Inc.
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Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services		C	lient San	ple ID: MW-2	
Project:	Trunk 6-C			Collectio	n Date: 9/9/2014 9:41:00 AM	
Lab ID:	1409436-009	Matrix:	AQUEOUS	Receive	<b>d Date:</b> 9/10/2014 6:30:00 AM	
Analyses		Result	RL Qual	Units	DF Date Analyzed I	Batch
EPA MET	HOD 8021B: VOLATILES				Analyst: I	NSB
Benzene		78	2.0	µg/L	2 9/11/2014 12:53:27 AM	R21136
Toluene		76	2.0	µg/L	2 9/11/2014 12:53:27 AM	R21136
Ethylben	zene	2.9	2.0	µg/L	2 9/11/2014 12:53:27 AM	R21136
Xylenes,	Total	110	4.0	µg/L	2 9/11/2014 12:53:27 AM	R21136
Surr: 4	I-Bromofluorobenzene	109	66.6-167	%REC	2 9/11/2014 12:53:27 AM	R21136

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

- 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 9 of 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental	Analysis	Laboratory,	Inc.
		• •	

Date Reported: 9/16/2014

CLIENT: Project:	Animas Environmental Services Trunk 6-C		C	lient Sam Collection	ple ID: MW-3 n Date: 9/9/2014 9:58:00 AM	
Lab ID:	1409436-010	Matrix:	AQUEOUS	Receivee	l Date: 9/10/2014 6:30:00 AM	
Analyses		Result	RL Qual	Units	DF Date Analyzed Bate	:h
EPA MET	HOD 8021B: VOLATILES				Analyst: NSB	3
Benzene		2.5	1.0	µg/L	1 9/11/2014 1:23:40 AM R21 ²	136
Toluene		1.7	1.0	µg/L	1 9/11/2014 1:23:40 AM R21 ²	136
Ethylbenz	zene	ND	1.0	µg/L	1 9/11/2014 1:23:40 AM R211	136
Xylenes,	Total	3.3	2.0	µg/L	1 9/11/2014 1:23:40 AM R211	136
Surr: 4	-Bromofluorobenzene	103	66.6-167	%REC	1 9/11/2014 1:23:40 AM R21 ²	136

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method

- * 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
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit Page 10 of 15
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services		C	lient Sam	ple ID: MV	W-5	
Project:	Trunk 6-C			Collection	<b>Date:</b> 9/9	/2014 8:49:00 AM	
Lab ID:	1409436-011	Matrix:	AQUEOUS	Received	<b>l Date:</b> 9/1	0/2014 6:30:00 AM	
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	1.0	µg/L	1	9/11/2014 1:53:50 AM	R21136
Toluene		ND	1.0	µg/L	1	9/11/2014 1:53:50 AM	R21136
Ethylben	zene	ND	1.0	µg/L	1	9/11/2014 1:53:50 AM	R21136
Xylenes,	Total	ND	2.0	µg/L	1	9/11/2014 1:53:50 AM	R21136
Surr: 4	I-Bromofluorobenzene	99.9	66.6-167	%REC	1	9/11/2014 1:53:50 AM	R21136

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

- 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
- Not Detected at the Reporting Limit Page 11 of 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services	Client Sample ID: MW-13					
Project:	Trunk 6-C			Collection	n <b>Date:</b> 9/9	0/2014 1:43:00 PM	
Lab ID:	1409436-012	Matrix:	AQUEOUS	Received	<b>d Date:</b> 9/1	0/2014 6:30:00 AM	
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	2.0	µg/L	2	9/11/2014 2:24:05 AM	R21136
Toluene		ND	2.0	µg/L	2	9/11/2014 2:24:05 AM	R21136
Ethylben	zene	ND	2.0	µg/L	2	9/11/2014 2:24:05 AM	R21136
Xylenes,	Total	ND	4.0	µg/L	2	9/11/2014 2:24:05 AM	R21136
Surr: 4	l-Bromofluorobenzene	102	66.6-167	%REC	2	9/11/2014 2:24:05 AM	R21136

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
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 12 of 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2014

<b>CLIENT:</b>	Animas Environmental Services	Client Sample ID: TRIP BLANK						
<b>Project:</b>	Trunk 6-C 1409436-013	Collection Date:						
Lab ID:		Matrix:	TRIP BLANK	Received	<b>Date:</b> 9/1	0/2014 6:30:00 AM		
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch	
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB	
Benzene		ND	1.0	µg/L	1	9/11/2014 5:33:13 PM	R21162	
Toluene		ND	1.0	µg/L	1	9/11/2014 5:33:13 PM	R21162	
Ethylben	zene	ND	1.0	µg/L	1	9/11/2014 5:33:13 PM	R21162	
Xylenes,	Total	ND	2.0	µg/L	1	9/11/2014 5:33:13 PM	R21162	
Surr: 4-Bromofluorobenzene		101	66.6-167	%REC	1	9/11/2014 5:33:13 PM	R21162	

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

- 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 13 of 15
- P Sample pH greater than 2.
- RL Reporting Detection Limit
# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

SampType: MBLK

Trunk 6-C

Client ID:	PBW	Batc	h ID: <b>R2</b>	1136	RunNo: 21136										
Prep Date:		Analysis [	Date: 9/	10/2014	S	SeqNo: 6	15390	Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua				
Benzene		ND	1.0												
Toluene		ND	1.0												
Ethylbenzene		ND	1.0												
Xylenes, Total		ND	2.0												
Surr: 4-Bron	nofluorobenzene	20		20.00		99.6	66.6	167							
Sample ID	100NG BTEX LCS	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles						
Client ID:	LCSW	Batc	h ID: <b>R2</b>	1136	F	RunNo: 2	1136								
Prep Date:		Analysis [	Date: <b>9</b> /	10/2014	S	SeqNo: 6	15391	Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua				
Benzene		20	1.0	20.00	0	99.0	80	120							
Toluene		20	1.0	20.00	0	98.8	80	120							
Ethylbenzene		20	1.0	20.00	0	98.0	80	120							
Xylenes, Total		62	2.0	60.00	0	103	80	120							
Surr: 4-Bron	nofluorobenzene	21		20.00		104	66.6	167							
Sample ID	1409436-001AMS	Samp	Type: M	6	TestCode: EPA Method 8021B: Volatiles										
Client ID:	MW-9	Batc	h ID: <b>R2</b>	1136	F	RunNo: 21136									
Prep Date:		Analysis [	Date: 9/	10/2014	S	SeqNo: 6	15401	Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua				
Benzene		38	2.0	40.00	0	94.4	80	120							
Toluene		38	2.0	40.00	0	94.2	80	120							
Ethylbenzene		38	2.0	40.00	0	96.2	79.7	126							
Xylenes, Total		120	4.0	120.0	0	101	80	120							
Surr: 4-Bron	nofluorobenzene	42		40.00		104	66.6	167							
Sample ID	1409436-001AMS	<b>)</b> Samp ⁻	Туре: М	SD	Tes	stCode: E	PA Method	8021B: Volat	iles						
Client ID:	MW-9	Batc	h ID: R2	1136	RunNo: 21136										
	rep Date: Analysis Date: 9/10/2014					SegNo: 6	15402	Units: µg/L							
Prep Date:		Analysis [	Jate: 9/	10/2014											
Prep Date: Analyte		Analysis [ Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua				
Prep Date: Analyte Benzene		Analysis [ Result 38	PQL 2.0	SPK value 40.00	SPK Ref Val	%REC 95.8	LowLimit 80	HighLimit 120	%RPD 1.49	RPDLimit 20	Qua				
Prep Date: Analyte Benzene Toluene		Analysis [ Result 38 38	PQL 2.0 2.0	SPK value 40.00 40.00	SPK Ref Val 0 0	%REC 95.8 95.9	LowLimit 80 80	HighLimit 120 120	%RPD 1.49 1.83	RPDLimit 20 20	Qua				
Prep Date: Analyte Benzene Toluene Ethylbenzene		Analysis I Result 38 38 38 38	PQL 2.0 2.0 2.0 2.0	SPK value 40.00 40.00 40.00	SPK Ref Val 0 0 0	%REC 95.8 95.9 95.7	LowLimit 80 80 79.7	HighLimit 120 120 126	%RPD 1.49 1.83 0.563	RPDLimit 20 20 20	Qua				
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total		Analysis I Result 38 38 38 38 120	PQL 2.0 2.0 2.0 4.0	SPK value 40.00 40.00 40.00 120.0	SPK Ref Val 0 0 0 0	%REC 95.8 95.9 95.7 99.9	LowLimit 80 80 79.7 80	HighLimit 120 120 126 120	%RPD 1.49 1.83 0.563 0.946	RPDLimit 20 20 20 20	Qua				
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	nofluorobenzene	Analysis [ <u>Result</u> 38 38 120 42	PQL 2.0 2.0 2.0 4.0	SPK value           40.00           40.00           40.00           120.0           40.00	SPK Ref Val 0 0 0 0	%REC 95.8 95.9 95.7 99.9 106	LowLimit 80 80 79.7 80 66.6	HighLimit 120 120 126 120 167	%RPD 1.49 1.83 0.563 0.946 0	RPDLimit 20 20 20 20 0	Qua				

#### **Qualifiers:**

**Client:** 

**Project:** 

Sample ID 5ML RB

- Value exceeds Maximum Contaminant Level. *
- Value above quantitation range Е
- 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
- Η Holding times for preparation or analysis exceeded

TestCode: EPA Method 8021B: Volatiles

- ND Not Detected at the Reporting Limit
  - Р Sample pH greater than 2.
  - Reporting Detection Limit RL

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- 16-Sep-14
- WO#: 1409436

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

Trunk 6-C

Sample ID	5ML RB	SampT	ype: MB	BLK	TestCode: EPA Method 8021B: Volatiles											
Client ID:	PBW	Batch	ID: <b>R2</b>	1162	RunNo: 21162											
Prep Date:		Analysis D	ate: 9/	11/2014	9	SeqNo: 6	16119	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-Brom	nofluorobenzene	19		20.00		96.1	66.6	167								
Sample ID	100NG BTEX LCS	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles											
Client ID:	LCSW	Batch	ID: <b>R2</b>	1162	F	RunNo: 2	1162									
Prep Date:		Analysis D	ate: 9/	11/2014	\$	SeqNo: 6	16120	Units: µg/L								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene		20	1.0	20.00	0	99.5	80	120								
Toluene		20	1.0	20.00	0	99.8	80	120								
Ethylbenzene		20	1.0	20.00	0	99.3	80	120								
Xylenes, Total		61	2.0	60.00	0	102	80	120								
Surr: 4-Brom	nofluorobenzene	21		20.00		103	66.6	167								
Sample ID	5ML RB	SampT	ype: MI	BLK	TestCode: EPA Method 8021B: Volatiles											
Client ID:	PBW	Batch	ID: <b>R2</b>	1183	RunNo: 21183											
Prep Date:		Analysis D	ate: 9/	12/2014	5	SeqNo: 6										
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-Brom	nofluorobenzene	19		20.00		95.3	66.6	167								
Sample ID	100NG BTEX LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volati	iles							
Client ID:	LCSW	Batch	ID: <b>R2</b>	1183	F	RunNo: 2										
Prep Date:		Analysis D	ate: 9/	12/2014	\$	SeqNo: 6	16443	Units: µg/L								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene		20	1.0	20.00	0	100	80	120								
Toluene		20	1.0	20.00	0	100	80	120								
Ethylbenzene		20	1.0	20.00	0	100	80	120								
Xylenes, Total		62	2.0	60.00	0	104	80	120								
Surr: 4-Brom	nofluorobenzene	18		20.00		89.9	66.6	167								

#### **Qualifiers:**

**Client:** 

**Project:** 

- * 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
  - Р Sample pH greater than 2.
  - Reporting Detection Limit RL

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16-Sep-14

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 Number:	1409436		RcptNo:	1
Received by/da	ate: LM	09/10/14				
Logged By:	Anne Thorne	9/10/2014 6:30:00 AM		anne Ann	·	
Completed By:	Anne Thorne	9/10/2014		anne Ann		
Reviewed By:	68	09/10/14				
Chain of Cu	stody	• • •				
1. Custody se	eals intact on sample bottles	?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of	Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was th	he sample delivered?		Courier			
<u>Log In</u>		·				
4. Was an at	tempt made to cool the sam	ples?	Yes 🗹	No 🗌	NA 🗌	
5. Were all sa	amples received at a temper	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
6. Sample(s)	in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient s	sample volume for indicated	test(s)?	Yes 🗹	No 🗌		
8. Are sample	es (except VOA and ONG) p	roperly preserved?	Yes 🗹	No 🗌		
9. Was prese	ervative 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 pape (Note disci	erwork match bottle labels? repancies on chain of custod	ły)	Yes 🗹	No 🗆	bottles checked for pH: (<2 or	>12 unless noted
13. Are matrice	es correctly identified on Cha	ain of Custody?	Yes 🗹	No 🗌	Adjusted?	·
14. Is it clear v	what analyses were requeste	ed?	Yes 🗹	No 🗌		
15. Were all he (If no, notif	olding times able to be met? fy customer for authorization	.)	Yes 🗹	No 🛄	Checked by:	
Special Han	ndling (if applicable)					
16. Was client	t notified of all discrepancies	with this order?	Yes 🗌	No 🗆	NA 🗹	
Pers	on Notified:	Date				

 By Whom:
 Via:
 eMail
 Phone
 Fax
 In Person

 Regarding:
 Client Instructions:

17. Additional remarks:

18. <u>Cooler Information</u>

Cooler No Temp	C Condition Seal Intact	Seal No Seal Date	Signed By
1 2.1	Good Yes		

TDONMENTAL	LABORATORY	nental.com	rque, NM 87109	505-345-4107	Request		bCB/š	()	)8 \ s (A)	саврі: ОV- ОV-	oltseg 18 OV) 808 Me2) 07	808 828 828 828 828																y notated on the analytical report.
		www.hallenviron	4901 Hawkins NE - Albuqu	Tel. 505-345-3975 Fax	Analysis	0 ⁴ ) ВО)	S'†Oc (SMI	9 ^{2,5} 0 15 0 ( ) ) H		:BE · 1,NC 0 or 1,00 5 bc 7 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,	TM + X3 B3r08 H H (Metho H M 8 M31 C(B) 2 M6 C(B) 2 M6 C(F,C	ВТ ТР ЕD РА ВС ВС													jarks:			bility. Any sub-contracted data will be clear
Furn-Around Time:	🗡 Standard 🗆 Rush	Project Name:	Trunde le C	Project #		Project Manager:	Brett Event (		oaiiipiei. U.Yes □ No ++	Sample Temperature: 2. (	Container Preservative HEAL No.	1409430	3 NOA HEL -COL &	/ /	X 22 X	X	Xac	-06 4	× 190-	-a8 ×	X 600-	x 010-	X JID- // //	1 V -02 K	Received by: Date Time	7 Uniturbule 1991 1645	Peceived by Date / Time	ntracted to other accredited laboratories. This serves as notice of this possi
Chain-of-Custody Record	Client: Animos Saine murked		Mailing Address: Loud W. Pinon St	Formark in 82401	Phone #: 1 505- 664-2381	email or Fax#:	QA/QC Package:			□ EDD (Type)	Date Time Matrix Sample Request ID	H20	1/4/4 0822 Marsh MW-9	1138 Her MW-10	1 905 Ano me-le	1039 / mw-4	1 1056 1 MW-12	/ 1113 / mw-11	0224 MW-7	1 1021 / MW-1	0941 MW 2	1 0453 MW-3	1 0849 mw-5	# 1343 V Aw 13.	Date, Time: Rehnquished by 100 00 00	19/11/14X Jon Can	Bate: Time: Relinquished by: Alow 1730 Mintha IV MUL	If necessary, semples submitted to Hall Environmental may be subco