# 3R-325

# Site Investigation Report

Date: 7/11/08

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District Copy For Scanning Only Has NOT been processed. Site Investigation Report Jicarilla 147-6

CDX Gas, LLC NE½ NW¼ of Section 6, T25N, R5W Rio Arriba County, New Mexico

July 11, 2008

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#### 1.0 Introduction

Animas Environmental Services, LLC (AES), on behalf of CDX Rio, LLC (CDX), has prepared this Site Investigation Report for the Jicarilla 147-6 condensate, oil, and water spill, which was discovered on November 30, 2007.

#### 2.0 Site Information

#### 2.1 Site Location

The Jicarilla 147-6 well location is located within the NE¼ NW¼ of Section 6, T25N, R5W, Rio Arriba County, New Mexico,(latitude and longitude recorded as N36° 26.034' and W107° 24.183'). A topographical location map is included as Figure 1, and a map of the spill excavation and investigation area is presented as Figure 2.

#### 2.2 Spill History

On November 30, 2007, CDX discovered that a drain valve on a production tank at the Jicarilla 147-6 had frozen and broke, releasing approximately 100 barrels (bbls) of condensate, oil, and water. The spill was discovered during normal monthly strapping of the production tank and was immediately reported to Brandon Powell of the New Mexico Oil Conservation Division (NMOCD), Herman Lujan of the Bureau of Land Management (BLM), and the Jicarilla Apache Tribal Environmental Protection Office (JEPO). The spilled material soaked into the ground around the production tank and some of it migrated to the sump around the pit tank and collected. Following the discovery of the spill, the facility was shut down and approximately 15 bbls of spilled liquids were removed from the sump around the pit tank and the production tank, pit tank, and sump were removed. The faulty drain valve on the production tank was replaced and the tank and separator were relocated to a new lined and bermed area. A copy of the C-141 Release Notification and Corrective Action form filed by CDX with the NMOCD has been included as Appendix A. At the request of JEPO and due to the wet winter and inaccessible roads, contaminated soil was not excavated until the spring of 2008.

During the spring of 2008, a total of approximately 3,000 cubic yards of contaminated soils were excavated and transported by B&B Trucking to the TNT Landfarm facility for disposal. The average depth of the excavation was approximately 15 feet below ground surface (bgs). The excavation was completed in stages until all contaminated soils were removed to the satisfaction of JEPO.

AES performed site investigation activities during several visits to the site from March through June 2008. Site investigation activities were performed in order to delineate the extent of petroleum hydrocarbon impact on surface and subsurface soils and groundwater resulting from the spill.

#### 3.0 Geology and Hydrogeology

#### 3.1 Geology

Rio Arriba County, New Mexico, is located along the southeastern margin of the San Juan Basin portion of the Colorado Plateau physiographic province. The San Juan Basin is a large structural depression encompassing approximately 22,000 square miles and contains deep Tertiary fill resting on rocks of Late Cretaceous age. The lithography consists primarily of the Mesa Verde Formation, composed primarily of sandstones. The topography is broad and mostly flat, surrounded by mountains and deep canyons. Major rivers carved deep canyons and mesas, and physical erosion from wind and water chipped and polished the exposed rocks in the canyons.

The regional geology of the Tapacitos area is predominately Late Cretaceous coastal plains and shoreline and marine units that were deposited along the western margin of the interior seaway. The shallow inland sea transgressed and regressed over a period of 250 million years, depositing the Dakota Sandstone and Mancos Shale units. The Dakota Sandstone records the alternating rise (shale) and fall (sandstones) of sea level as the shoreline moved back and forth across the area about 98 to 100 million years ago. The long-term rise in sea level deposited rocks of the Mancos Group, which from oldest to youngest, include the Graneros Shale, Greenhorn Limestone, and Carlile Shale. Gradually the sea level dropped again, and the shoreline retreated to the northeast, as deposition of the Mesaverde Group began. The Mesaverde Group consists of alternating sandstones, siltstones, and coal deposited by rivers flowing into the shallow sea.

#### 3.2 Hydrogeology

The Jicarilla 147-6 well location drains to an unnamed arroyo which in turn drains to Tapicito Creek, then to Largo Canyon, and ultimately to the San Juan River.

Locally, shallow groundwater is encountered within the valleys and canyons at depths less than 50 feet and is typically associated with arroyos, which can be incised as much as 20 feet below the valley floor. Groundwater was encountered at the site between approximately 17 and 20 feet below ground surface (bgs).

#### 4.0 Site Investigation – March through June 2008

AES performed site investigation activities during several visits to the site from March through June 2008. Site investigation activities were performed in order to delineate the extent of petroleum hydrocarbon impact on surface and subsurface soils and groundwater resulting from the spill. The investigation procedures included the collection of soil samples from the excavation; collection of soil samples from soil borings installed along the north, east, and west excavation perimeter; and collection of soil samples from pot-hole/trenches excavated with a backhoe along the southern perimeter of the excavation as well as downgradient of the excavation at two locations near a previous Williams Production Company pipeline spill. Additionally, groundwater samples were collected from three of the five soil borings/temporary monitoring wells installed along the north, east, and west excavation perimeter. All work was completed 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

#### 4.1 Health and Safety Plan

Prior to the start of the site investigation activities, AES prepared and implemented a comprehensive site-specific Health and Safety Plan (HASP) addressing the site investigation activities and associated soil and groundwater sampling. All employees and subcontractors were required to read and sign the HASP to acknowledge their understanding of the information contained within the HASP. The HASP was implemented and enforced on site by the assigned Site Safety and Health Officer. Daily tailgate meetings were held and documented during field activities and addressed site-specific health and safety concerns or issues.

#### 4.2 Initial Soil Sample Collection

On March 27, 2008, AES visited the site and obtained soil samples from each corner and the mid-point of the north and south sides of the excavation in order to determine if the vertical and horizontal extents of the contamination had been excavated. In order to obtain the samples, a backhoe operated by a contractor of CDX was utilized. Two buckets of soil were removed from each of the sampling locations and then the samples were collected from the third bucket by AES personnel. Soil sampling locations are shown on Figure 2.

Once collected, sample containers were packed with ice in insulated coolers and shipped via Greyhound bus at less than 6°C to the analyzing laboratory. For all laboratory samples, quality assurance and quality control (QA/QC) procedures, sample preservation, apparatus required, and analyses performed were in accordance with USEPA Document EPA-600, "Methods for Chemical Analysis for Water and Wastes" dated July 1982; and USEPA document SW-846, 3rd Edition, "Test Methods for Evaluating Solid Waste: Physical Chemical Methods", dated November 1986.

#### 4.3 Utilities Notification

AES utilized the New Mexico One-Call system to identify and mark all underground utilities at the site before initiating drilling activities.

#### 4.4 Notification

AES notified Lee Gardner of CDX, Brandon Powell of NMOCD, and Dixon Sandoval of JEPO, on April 11, 2008, via letter before starting drilling activities.

#### 4.5 Installation and Sampling of Soil Borings and Temporary Groundwater Monitoring Wells

On April 17, 2008, AES installed one soil boring 8 feet west and 20 feet north of the northeastern corner of the excavation. The boring (TH-1) was installed with a direct push rig to a depth of 20 feet bgs. Mr. Lee Gardner of CDX was present for the installation of the soil boring.

On May 7, 2008, AES returned to the site and installed five soil borings on the north, east, and west sides of the excavations. Each of the borings was completed as a temporary groundwater monitoring well. The borings (TH-2 through TH-6) were installed with a CME-75 truck-mounted drilling rig to depths of 21 feet bgs. Mr. Lee Gardner of CDX and Mr. Dixon Sandoval of JEPO were present for the installation of the soil borings and temporary monitoring wells. The locations of soil borings are presented on Figure 2.

#### 4.5.1 Drilling Methods

Soil boring TH-1 was advanced with a DT 6620 track-mounted direct push rig, manufactured by Geoprobe®, and equipped with a 2-inch outer diameter (OD) core barrel. Earth Worx, Los Lunas, New Mexico, completed the direct push drilling.

Soil borings TH-2 through TH-6 were advanced with a CME-75 Hollow-Stem Auger drilling rig. Enviro-Drill, Albuquerque, New Mexico, provided the drilling services.

#### 4.5.2 Soil Sample Collection

Soil samples from TH-1 were collected with a 4-foot disposable sleeve and samples from TH-2 through TH-6 were collected with stainless steel split spoon samplers. Each boring was logged for lithology and sampled continuously for field screening of volatile organic compounds (VOCs) with a photo-ionization detector (PID) organic vapor meter (OVM). Additionally, soil samples were collected from the borings for laboratory analysis.

For each soil boring, a Soil Boring Log was completed. These logs recorded sample depth and method of collection, as well as observations of soil moisture, color, density, grain size, plasticity, contaminant presence, and overall stratigraphy.

Soil sample collection was completed in strict accordance with USEPA Environmental Response Team's SOPs. Field soil boring logs are included in Appendix B.

#### 4.5.3 Field Screening

Samples were collected at intervals of five feet from TH-1 through TH-6. These samples were field screened for volatile organic vapors utilizing a PID-OVM calibrated with isobutylene gas.

Once collected, the soil samples to be field screened were immediately placed in a clean one-gallon Ziploc bag and allowed to warm up to approximately 80°F. Approximately ten minutes was allowed for the soil to be heated and for any VOCs in the soil to accumulate in the headspace of the Ziploc bag. During the initial stages of headspace development, the sample was gently shaken for one minute to promote vapor development and disaggregate the sample. Volatile gases were then measured by carefully opening the Ziploc bag and inserting the sample probe of the PID-OVM. The highest (peak) measurements were recorded onto the Soil Boring Logs. All field screening was completed in strict accordance with the SAP and USEPA Environmental Response Team's SOPs.

#### 4.6 Final Soil Sample Collection

On June 11, 2008, AES returned to the site to collect soil samples from the west and south sides of the excavation. In order to obtain the samples, a backhoe operated by a contractor of CDX was utilized. AES personnel collected samples from the bucket after the operator had dug down from 7 to 15 feet bgs. Soil sampling locations are shown on Figure 2.

Soil samples collected were submitted to an EPA-approved laboratory, Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico, for laboratory analysis of the following parameters:

- Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) EPA Method 8021
- Total Petroleum Hydrocarbons (TPH) (C<sub>6</sub>-C<sub>36</sub>) Gasoline Range Organics (GRO),
   Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) EPA Method
   8015 Modified

Once collected, sample containers were packed with ice in insulated coolers and shipped via Greyhound bus at less than 6°C to the analyzing laboratory. For all laboratory samples, quality assurance and quality control (QA/QC) procedures, sample preservation, apparatus required, and analyses performed were in accordance with USEPA Document EPA-600, "Methods for Chemical Analysis for Water and Wastes" dated July 1982; and USEPA document SW-846, 3rd Edition, "Test Methods for Evaluating Solid Waste: Physical Chemical Methods", dated November 1986.

#### 4.7 Groundwater Monitor Well Installation

#### 4.7.1 Groundwater Monitor Well Installation and Construction

A total of five temporary monitoring wells (TH-2 through TH-6) were installed at the site. Monitoring wells were positioned on the north, east, and west sides of the excavations in order to define any horizontal migration of contaminants in groundwater. Groundwater was encountered between approximately 17 to 20 feet bgs.

Temporary monitoring well construction for all wells consisted of 2-inch outside diameter (OD) Schedule 40 PVC screen (0.010 inch slot), and 2-inch diameter blank riser casing. The screened intervals extend at least 10 feet across the water table in each of the wells. A bentonite seal was placed above the sand pack of each well, and the drill cuttings were placed from the top of the bentonite plug up to within a foot of ground surface. Monitoring wells were installed in strict accordance USEPA Environmental Response Team's SOPs. Temporary monitoring well construction diagrams for TH-2 through TH-6 are included on the Boring Logs in Appendix B.

#### 4.7.2 Groundwater Monitor Well Development

Following monitor well installation and completion, each well was developed in order to remove fine-grained sediments from the sand pack and to increase hydraulic conductivity through the well screen. Monitoring wells were developed in strict accordance with USEPA Environmental Response Team's SOPs.

#### 4.7.3 Monitoring Well Survey

The location and elevation of the top of each well casing was surveyed by AES personnel using two mobile Global Positioning System (GPS) units (Magellan eXplorist 100 and 200) by placing both GPS units on top of the well casing and taking the GPS coordinates and elevations when both units were within 10 percent agreement.

#### 4.7.4 Groundwater Monitor Well Monitoring and Sampling

AES personnel completed groundwater monitoring and sampling of the wells on May 7, 2008. Groundwater samples were collected from a total of three temporary monitoring wells with new disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. Water samples were not collected from TH-5 or TH-6 because the wells were dry.

Prior to sample collection, water quality measurements were recorded and included depth to groundwater, pH, temperature, conductivity, and oxidation reduction potential (ORP). The Chain of Custody Record was then completed, and samples were transported to the analyzing laboratory in chilled and insulated coolers at less than 6°C. All samples were analyzed at Hall in Albuquerque, New Mexico.

#### 4.7.5 Laboratory Analyses - Groundwater

All groundwater analytical samples collected from the monitoring wells were submitted to Hall Environmental Analysis Laboratory, Albuquerque, New Mexico, for analysis of the following parameters:

- BTEX EPA Method 8021
- TPH (C<sub>6</sub>-C<sub>36</sub>) GRO, DRO, and MRO EPA Method 8015 Modified
- Chloride EPA Method 300.0

#### 5.0 Results

#### 5.1 Soil

#### 5.1.1 Lithology

Soil lithology was observed to consist of interbedded layers of tan and tan-red sands, brown sandy clays, and brown clayey sands. Soil boring logs are included in Appendix B.

#### 5.1.2 Field Results

Soil samples collected from the soil borings (TH-1 through TH-6) were field-screened for VOCs with a PID-OVM. OVM readings were at or near background levels for all samples collected from TH-1, TH-2, TH-3, TH-5, and TH-6. Background OVM readings ranged from 0.0 parts per million (ppm) to 1.1 ppm. The OVM reading from TH-4 at 17-19 feet bgs was 1,982 ppm. PID readings were recorded on the soil boring logs, which are included in Appendix B.

#### 5.1.3 Laboratory Analysis

Soil samples collected were submitted to an EPA-approved laboratory, Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico, for laboratory analysis of the following parameters:

- Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) EPA Method 8021
- Total Petroleum Hydrocarbons (TPH) (C<sub>6</sub>-C<sub>36</sub>) Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015 Modified

#### 5.1.4 Analytical Results

Soil samples were collected for laboratory analysis from the terminal depths of the borings. Remediation action levels promulgated by NMOCD for oil spills and releases (August 13, 1993) were utilized as action levels for soil characterization. The NMOCD remediation action levels for total BTEX are 50 mg/kg and 100 mg/kg for TPH.

Soil analytical results showed that soil samples collected during the initial sampling event on March 27, 2008, had total BTEX concentrations above NMOCD Action Levels in the NE Corner of the excavation (423 mg/kg) and the SW Corner of the excavation (236.9 mg/kg). Total BTEX concentrations from remaining soil samples collected on March 27, 2008, were either below laboratory detection limits or well below the applicable action level of 50 mg/kg total BTEX. The NMOCD Action Level for TPH (100 mg/kg) was exceeded in four of the samples collected during the initial soil sampling event on March 27, 2008, including the NE Corner of the excavation (2,776 mg/kg), the SE Corner of the excavation (120 mg/kg), the SW Corner of the excavation (3,120 mg/kg), and the NW Corner of the excavation (135 mg/kg). TPH concentrations in the remaining soil samples collected on March 27, 2008, were below laboratory detection limit.

Soil analytical results for samples collected during the soil boring and temporary monitoring well installation were above the NMOCD Action Levels for total BTEX and TPH in TH-4 at 17 feet bgs with 85.29 mg/kg total BTEX and 632 mg/kg TPH. The remaining samples collected during soil boring installation on April 17 and May 7, 2008, were below laboratory detection limits for total BTEX and TPH. Chloride concentrations during the May 7, 2008, soil boring installation ranged from 2.9 mg/kg in TH-3 at 15 feet bgs to 150 mg/kg in TH-6 at 17 feet bgs.

Each of the soil samples collected during the June 11, 2008, soil sampling event showed total BTEX and TPH concentrations below laboratory detection limits. Chloride concentrations during the June 11, 2008, soil sampling event ranged from 41 mg/kg in SS-1 at 8 feet bgs to 250 mg/kg in SS-5 at 15 feet bgs.

The analytical results for each of the soil sampling events have been tabulated and are presented in Table 1 and on Figure 3. Soil analytical laboratory reports are presented in Appendix C.

#### 5.2 Groundwater

AES personnel collected groundwater samples from three temporary monitor wells for laboratory analysis on May 7, 2008. Laboratory analytical data are included in Appendix C, and Water Sample Collection forms are presented in Appendix D.

#### 5.2.1 Measurement Data

Following depth to water measurement, each well was purged with a disposable bailer until recorded temperature, pH, conductivity, and oxidation reduction potential (ORP) measurements were stabilized. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 11.91°C in TH-2 to 13.16°C in TH-4. Conductivity ranged from 1.23 mS in TH-2 to 23.68 mS in TH-4, and ORP was measured between -86.9 mV in TH-4 and 98.0 mV in TH-3. Depth to groundwater measurements and water quality data are summarized in Table 2, and Water Sample Collection forms are presented in Appendix D.

#### 5.2.2 Analytical Results

Analytical results from groundwater samples collected during the May 2008 sampling event show that benzene concentrations exceeded the New Mexico Water Quality Control Commission (WQCC) standard of 10  $\mu$ g/L in TH-4 with 900  $\mu$ g/L. TH-4 also exceeded the WQCC standard of 620  $\mu$ g/L for total xylene with 9,200  $\mu$ g/L. BTEX concentrations were below laboratory detection limits in each of the other wells sampled.

WQCC standards have not been established for TPH GRO, DRO, MRO, or chloride. Two wells had GRO concentrations above the laboratory detection limit, including TH-2 (0.088 mg/L) and TH-4 (29 mg/L). DRO and MRO concentrations were below the laboratory detection limit in each of the wells sampled. Chloride results were 6.3 mg/L in TH-2, 19 mg/L in TH-3, and 280 mg/L in TH-4. The analytical results for the groundwater samples collected during the May 2008 sampling event have been tabulated and are presented in Table 3 and on Figure 3. Groundwater analytical laboratory reports are presented in Appendix C.

#### 6.0 Conclusion and Recommendations

A total of 18 soil samples and three groundwater samples were collected by AES between March 27 and June 11, 2008. Soils were found to consist of interbedded layers of tan and tan-red sands, brown sandy clays, and brown clayey sands. Soil petroleum hydrocarbon contamination was evident in samples obtained from the NE Corner of the excavation, SE Corner of the excavation, SW Corner of the excavation, NW corner of the excavation, and TH-4 at 17 feet bgs. Soil contaminant concentrations exceeded NMOCD action levels for total BTEX in the NE Corner of the excavation, the SW Corner of the excavation, and TH-4 at 17 feet bgs and for TPH in the NE Corner of the excavation, the SE Corner of the excavation, the SW Corner of the excavation, and TH-4 at 17 feet bgs. The highest total BTEX concentration was reported at 423 mg/kg in the NE Corner of the excavation and the highest TPH concentration was reported at 3,120 mg/kg in the SW Corner of the excavation.

Depths to groundwater across the site were encountered at about 20 to 22 feet bgs from the top of the well casing (approximately 17 to 19 feet bgs). A baseline groundwater monitoring and sampling event was conducted by AES on May 7, 2008, and groundwater analytical results showed that groundwater is impacted above the WQCC standard for benzene and total xylene in TH-4. TH-2 and TH-4 have TPH-GRO concentrations above laboratory detection limits.

Following the initial soil sampling event performed by AES, CDX excavated additional contaminated soils from the areas with elevated contaminant concentrations. During the initial groundwater sampling event, TH-4 was observed to be impacted by benzene and total xylene contamination above WQCC standards, however, it is the opinion of AES that this contamination is not associated with the CDX spill, but rather is the result of a much earlier spill or "old" drilling pit as indicated by the types of clays and dark staining encountered during the installation of TH-4. Based on the results of the soil samples collected during test hole installation and the final soil sampling event performed by AES, it appears that the extents of the contaminated soil resulting from the CDX spill have been adequately excavated, and any residual soil or groundwater contaminants can be mitigated through the introduction of nutrients to stimulate natural contaminant biodegradation.

#### 7.0 Certification

I, the undersigned, am personally familiar with the information submitted in this Site Investigation report, prepared on behalf of CDX Gas, LLC for the March through June 2008 site activities associated with the Jicarilla 147-6 spill in Rio Arriba County, New Mexico. I attest that it is true and complete to the best of my knowledge.

Lang Cupps

Project Manager

Ross Kennemer

**Environmental Scientist** 

#### 8.0 References

- U.S. Environmental Protection Agency (USEPA). 1982. Methods for Chemical Analysis for Water and Wastes. Document EPA-600, July, 1982.
- USEPA. 1992. SW-846, 3rd Edition, *Test Methods for Evaluating Solid Waste: Physical Chemical Methods*, dated November, 1986, and as amended by Update One, July, 1992.
- USEPA. 1991. Site Characterization for Subsurface Remediation, EPA 625/4-91-026, November, 1991.
- USEPA. 1997. Expedited Site Assessment Tools for Underground Storage Tank Sites. OSWER 5403G and EPA 510B-97-001, March, 1997.
- USEPA. 2001. Contract Laboratory Program (CLP) Guidance for Field Samplers. OSWER 9240.0-35, EPA 540-R-00-003. June, 2001.

## TABLE 1 SUMMARY OF SOIL ANALYTICAL RESULTS CDX JICARILLA 147-6

**Rio Arriba County, New Mexico** 

Sample I.D.	Date Sampled	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	Chloride (mg/Kg)
	Analytical Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B	9056A
<b>USEPA Region 6</b>	Screening Levels	1.6	520	230	210	NE	NE	NE	NE
NM	OCD Action Level		5	0*			100		NE
SS-1 @ 8'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	41
SS-2 @ 7'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	79
SS-3 @ 10'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	97
SS-4 @ 15'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	45
SS-5 @ 15'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	250

NOTE: NE = Not Established

<sup>\* =</sup> The NMOCD Action Level for Benzene is 10 mg/Kg. The NMOCD Action Level for BTEX is 50 mg/Kg.

#### TABLE 1 SUMMARY OF SOIL ANALYTICAL RESULTS CDX JICARILLA 147-6

**Rio Arriba County, New Mexico** 

Sample I.D.	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total Xylenes	GRO	DRO	MRO	Chloride
	Analytical Method	(mg/Kg) 8021B	(mg/Kg) 8021B	(mg/Kg) 8021B	(mg/Kg) 8021B	(mg/Kg) 8015B	(mg/Kg) 8015B	(mg/Kg) 8015B	(mg/Kg) 9056A
USEPA Region 6		1.6	520	230	210	NE	NE	NE	NE
	OCD Action Level	September 1		0*			100		NE
NE Corner	27-Mar-08	12	140	21	250	2700	76	<50	NA
SE Corner	27-Mar-08	0.29	4.0	0.66	7.9	120	<10	<50	NA
N Mid	27-Mar-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	NA
S Mid	27-Mar-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	NA
SW Corner	27-Mar-08	<1.0	18	8.9	210	3,000	120	<50	NA
NW Corner	27-Mar-08	<0.10	0.68	0.18	6.0	63	72	<50	NA
TH-1 @ 16-17'	17-Apr-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	NA
TH-2 @ 15'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	46
TH-3 @ 15'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	2.9
TH-4 @ 15'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	40
TH-4 @ 17'	07-May-08	0.29	5.4	5.6	74	620	12	<50	57
TH-5 @ 17'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	100
TH-6 @ 17'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	150

# TABLE 2 WATER QUALITY AND WELL DATA CDX JICARILLA 147-6 Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to NAPL (ft)	Depth to Water (ft)	GW Elevation (ft amsl)	Corrected GW Elevation (ft amsl)	Temp.	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	рН	ORP (mV)
TH-2	05/07/08	6439.00		20.43	6418.57		11.91	1.23	NM	8.03	-1.50
TH-3	05/07/08	6439.00		21.73	6417.27		12.60	1.72	NM	7.01	98.0
TH-4	05/07/08	6439.00	No.	21.85	6417.15		13.16	23.68	NM	8.15	-86.9
TH-5	05/07/08	6439.00		DRY			NM	NM	NM	NM	NM
TH-5	05/10/08	6439.00		DRY			NM	NM	NM	NM	NM
TH-6	05/07/08	6439.00		DRY	20 20 27	COLVERN S	NM	NM	NM	NM	NM
TH-6	05/10/08	6439.00		DRY		1000144	NM	NM	NM	NM	NM

**NM - Not Measured** 

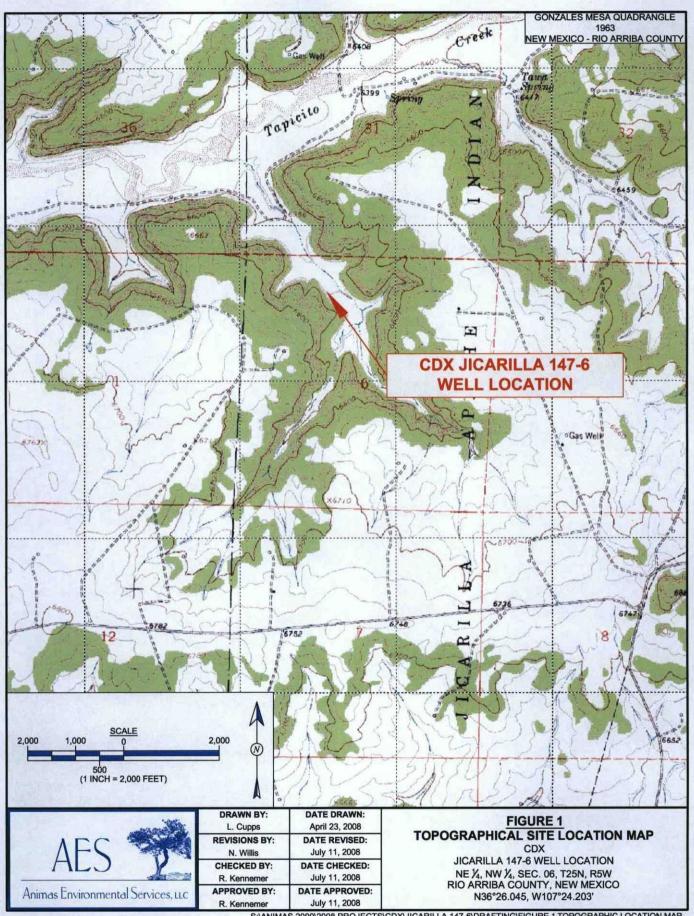
#### TABLE 3

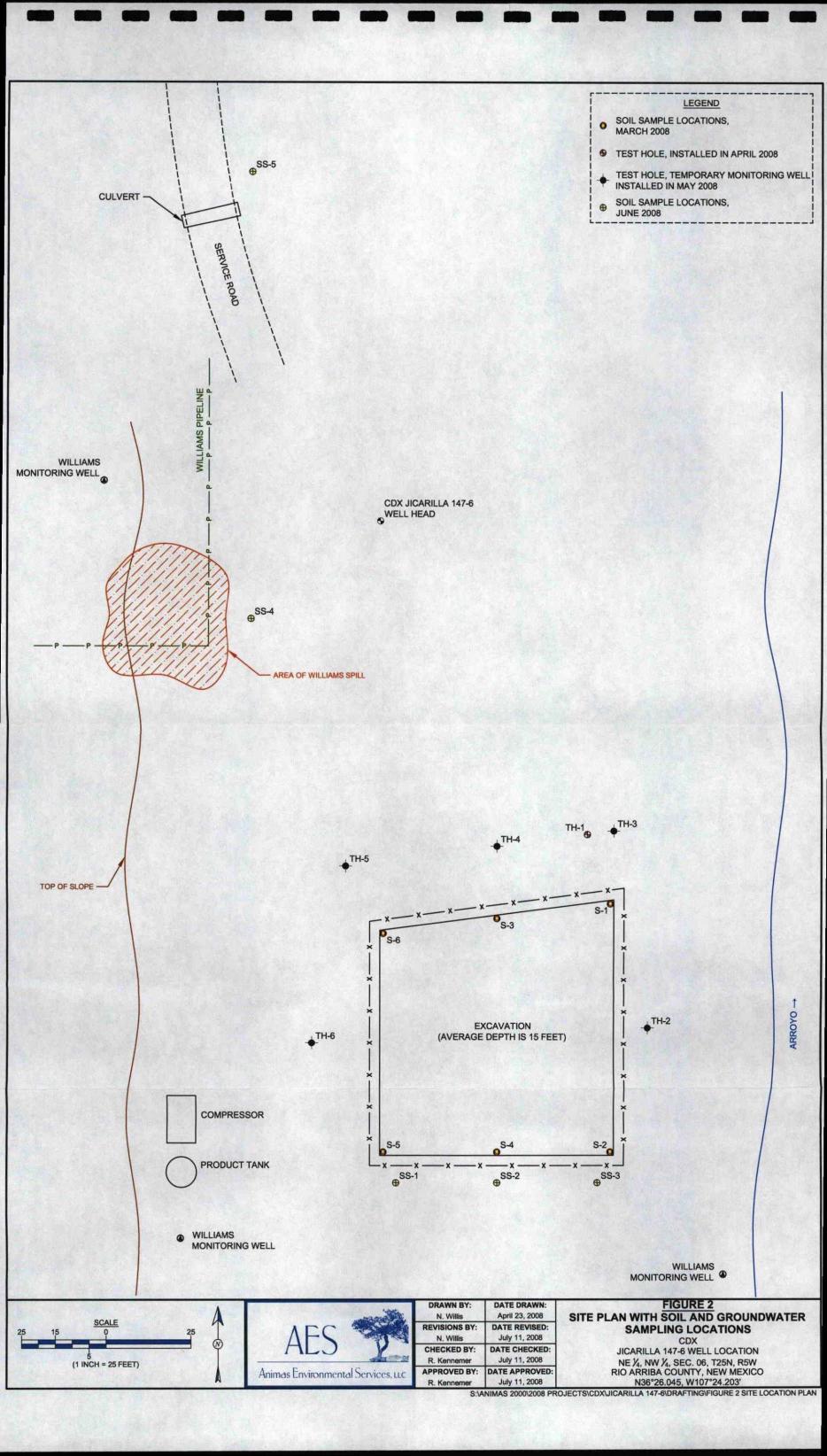
#### SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

#### **CDX JICARILLA 147-6**

#### **Rio Arriba County, New Mexico**

Sample I.D.	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total Xylenes	GRO	DRO	MRO	Chloride
Analytica	l Method	(μg/L) 8021B	(μg/L) 8021B	(μg/L) 8021B	(μg/L) 8021B	(mg/L) 8015B	(mg/L) 8015B	(mg/L) 8015B	(mg/L) 300.0
New Mexic		10	750	750	620	NE	NE	NE	NE
TH-2	07-May-08	<1.0	1.0	<1.0	<2.0	0.088	<1.0	<5.0	6.3
TH-3	07-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19
TH-4	07-May-08	900	180	740	9,200	29	<1.0	<5.0	280





#### SUMMARY OF SOIL ANALYTICAL RESULTS CDX JICARILLA 147-6 Rio Arriba County, New Mexico

Sample I.D.	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total Xylenes	GRO	DRO	MRO	Chloride
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
	Analytical Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B	9056A
USEPA Region (	Screening Levels	1.6	520	230	210	NE	NE	NE	NE
NM	IOCD Action Level			50*			100		NE
NE Corner	27-Mar-08	12	140	21	250	2700	76	<50	NA
SE Corner	27-Mar-08	0.29	4.0	0.66	7.9	120	<10	<50	NA
N Mid	27-Mar-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	NA
S Mid	27-Mar-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	NA
SW Corner	27-Mar-08	<1.0	18	8.9	210	3,000	120	<50	NA
NW Corner	27-Mar-08	<0.10	0.68	0.18	6.0	63	72	<50	NA
TH-1 @ 16-17'	17-Apr-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	NA
TH-2 @ 15'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	46
TH-3 @ 15'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	2.9
TH-4 @ 15'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	40
TH-4 @ 17'	07-May-08	0.29	5.4	5.6	74	620	12	<50	57
TH-5 @ 17'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	100
TH-6 @ 17'	07-May-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	150
SS-1 @ 8'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	41
SS-2 @ 7'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	79
SS-3 @ 10'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	97
SS-4 @ 15'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	45
SS-5 @ 15'	11-Jun-08	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	250

NOTE: NE = Not Established

\* = The NMOCD Action Level for Benzene is 10 mg/Kg. The NMOCD Action Level for BTEX is 50 mg/Kg.

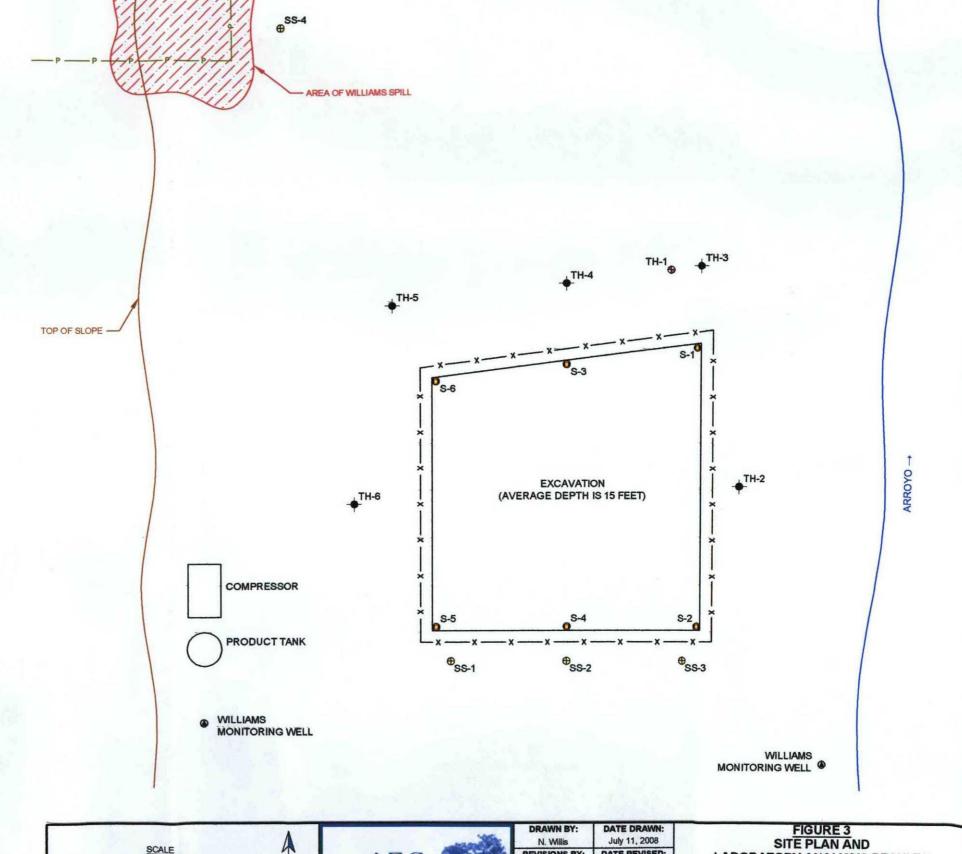
#### SUMMARY OF GROUNDWATER ANALYTICAL RESULTS CDX JICARILLA 147-6

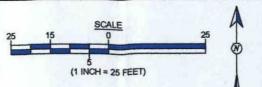
Rio Arriba County, New Mexico

750	8021B 8021I 750 750		(mg/L) 8015B NE	(mg/L) 8015B NE	(mg/L) 8015B NE	(mg/L) 300.0 NE
		620				
-		-				
0 1.0	1.0 <1.0	<2.0	0.088	<1.0	<5.0	6.3
0 <1.0	<1.0 <1.0	<2.0	<0.050	<1.0	<5.0	19
0 180	180 740	9,200	29	<1.0	<5.0	280
-	00	3   11				

⊕SS-5 CULVERT -

## SOIL SAMPLE LOCATIONS, MARCH 2008 TEST HOLE, INSTALLED IN APRIL 2008 TEST HOLE, TEMPORARY MONITORING WELL INSTALLED IN MAY 2008 ⊕ SOIL SAMPLE LOCATIONS, JUNE 2008







DRAWN BY:	DATE DRAWN:
N. Willis	July 11, 2008
REVISIONS BY:	DATE REVISED:
N. Willis	July 11, 2008
CHECKED BY:	DATE CHECKED:
R. Kennemer	July 11, 2008
	Management of the Party of the

FIGURE 3
SITE PLAN AND
LABORATORY ANALYSIS RESULTS
CDX
JICARILLA 147-6 WELL LOCATION

NE ¼, NW ¼, SEC. 06, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

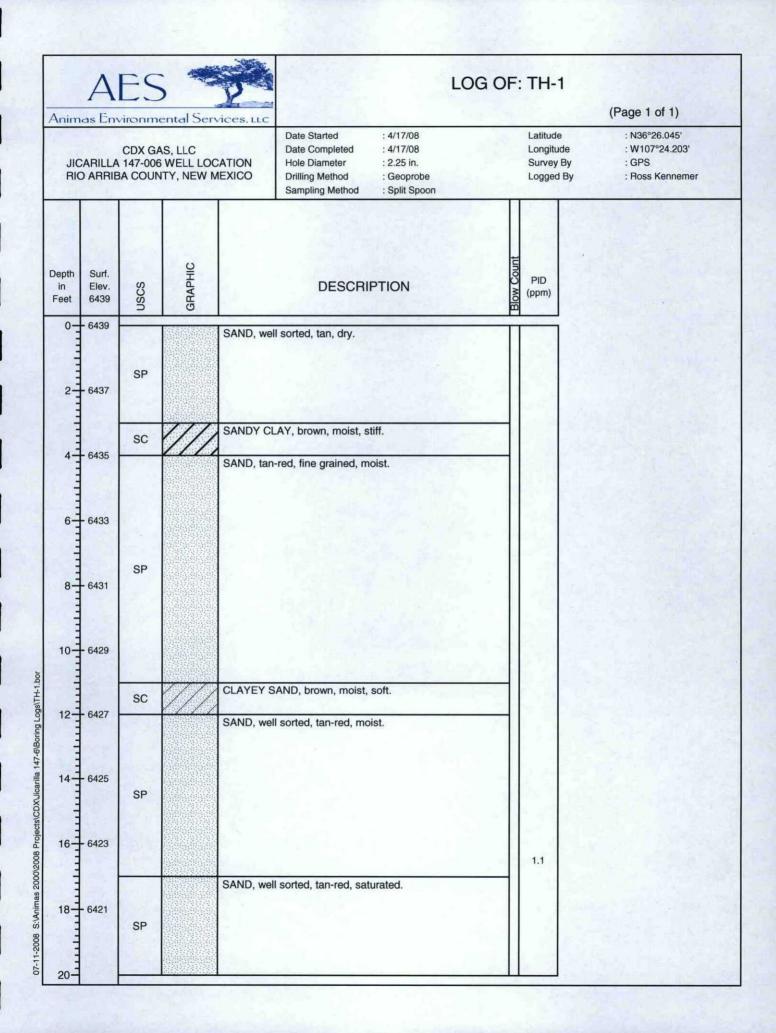
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

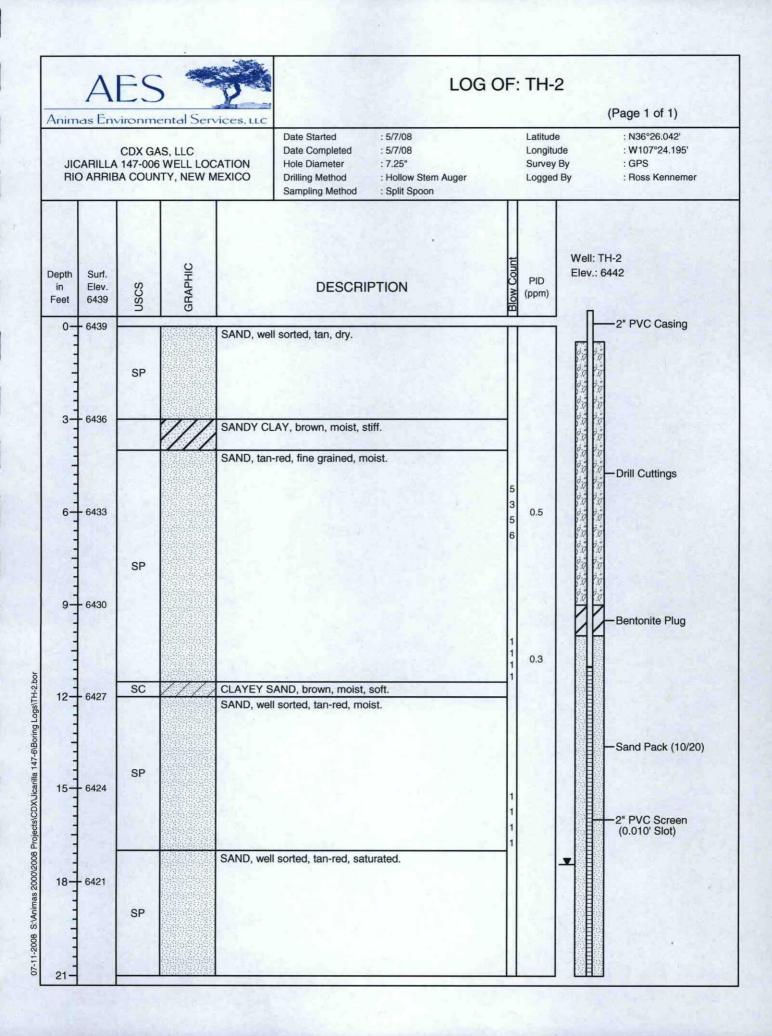
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

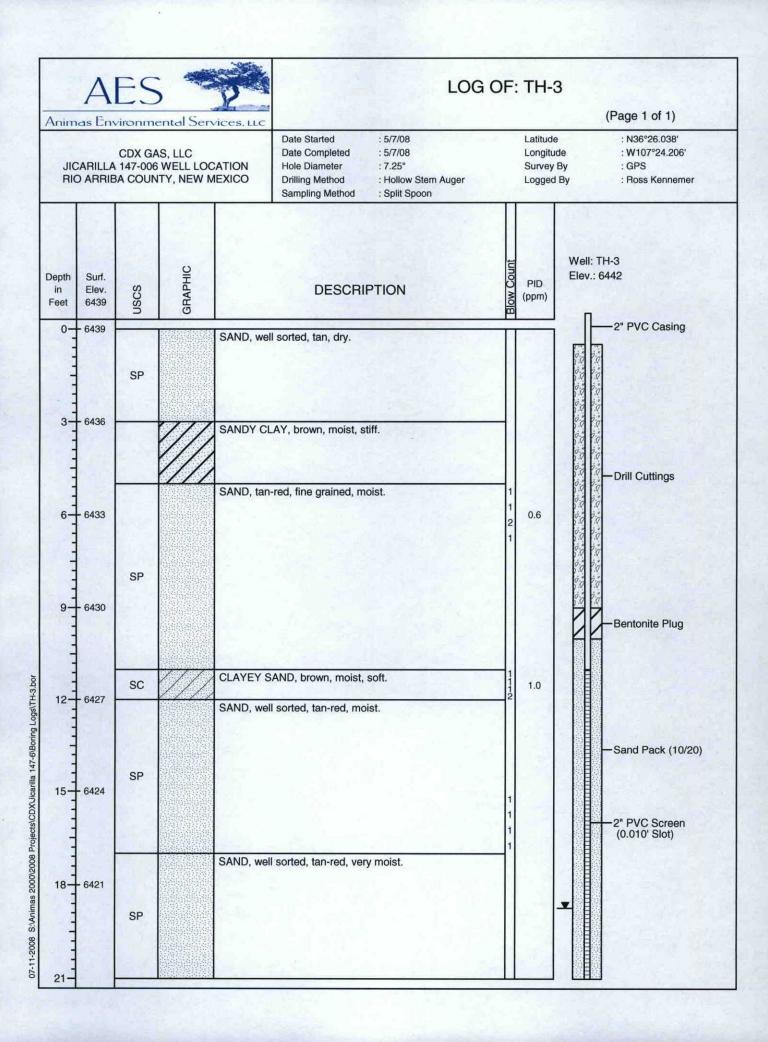
#### **Release Notification and Corrective Action**

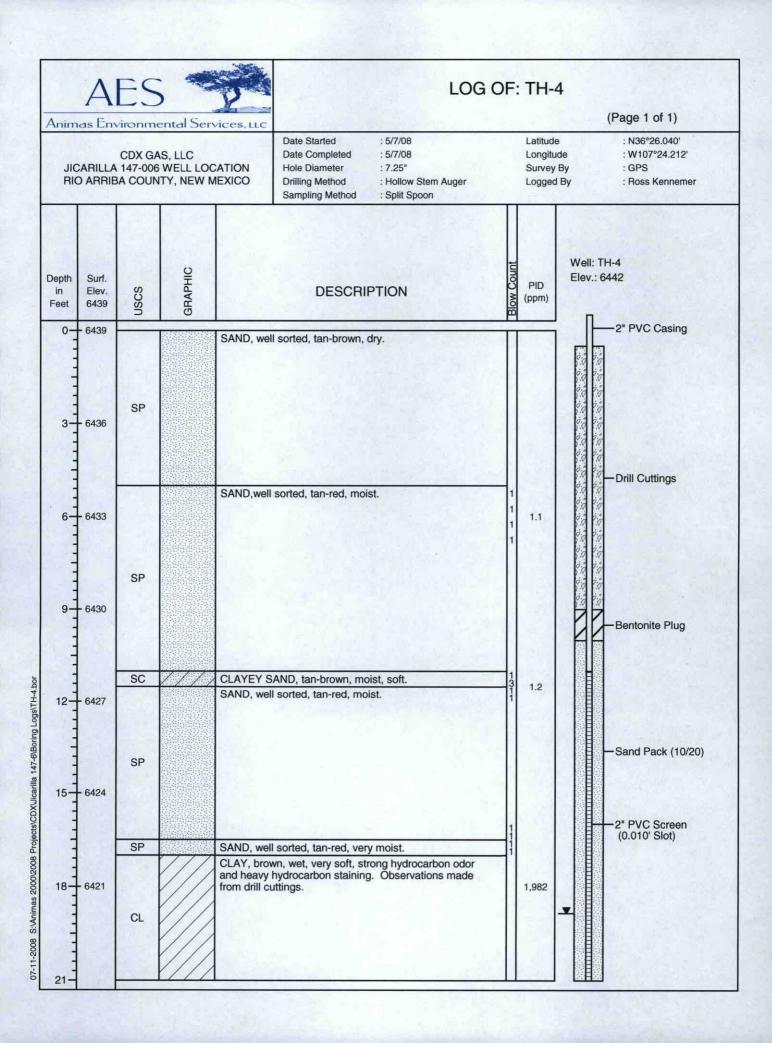
					A cont	<b>OPERA</b>	TOR		Initi	al Report		Final	l Repor
Name of Co	ompany C	DX RIO, LI	C			Contact Le	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T						
Address 27 NM 87401	'00 Farmir	igton Ave, E	Bldg K, S	uite 1, Farmingto	on	Telephone	No.(505) 326-30	003					
Facility Na	ne Jicaril	la 147 #6				Facility Typ	e Oil & Gas W	/ell					
Surface Ow	ner Jicaril	la Apache T	ribe	Mineral O	wner J	icarilla Apa	che Tribe		Lease 1	No. Jicarilla	Con	tract 14	47
				LOCA	TIO	N OF RE	LEASE						
Unit Letter C	Section 6	Township 25N	Range 5W	Feet from the 790		South Line	Feet from the 1850	East/We West	est Line	County Rio Arriba			
			Lat	itude_36.43411_		Longit	ude107.4037	9	MI				
			Maria de la compansión	NAT	URE	OF REL	Control of the contro						
		sate, Oil & W	ater		1300		Release 100.7 ba		Commence of the Commence of th	Recovered 15	SALES SERVICE	2007	
Source of Re	lease Produ	ction Tank				Date and I Unknown	Hour of Occurrence			Hour of Disco n. 11-30-07	overy	1	
Was Immedi	ate Notice (		Yes [	No Not Re	equired	If YES, To Herman L	Whom? Brandor ujan, BLM pache Tribal Envi	n Powell, C	OCD				
By Whom? I	ee Gardner			T. Carrier		Date and I	Iour 11:56 a.m. 1	1-30-07			V.		
Was a Water		hed?	Yes 🗵	] No		If YES, Vo	olume Impacting t	the Waterc	ourse.				
		em and Reme e and broke. I		n Taken.* e was replaced									
Describe Are	Affected a	and Cleanup A	Action Tak	cen.*	181								
		the ground ar emoved from		production tank. Ti	he mate	rial migrated	to the sump arou	nd the pit t	tank whe	re some of it	colle	cted. 1:	5
Action plan: The facility w	na shutdow												
The production The production The contamin A third party	on tank and on tank, pit on ated dirt wi environmen	pit tank and s tank and separate Il be excavate tal test firm v	rator will led and place will be con	be emptied and ren be relocated on the ced in a lined dike tracted to sample t	well pa area unt he area	ad to a new li til weather ar	ned dike area. All d road conditions	s allow for	it to be s			lisposal	site.
hereby certifications all bublic health of should their of the environ	y that the in operators a or the envir perations ha ment. In a	nformation giver are required to conment. The ave failed to a	ven above report an acceptanc dequately CD accep	e the contaminated is true and completed/or file certain rele to of a C-141 report investigate and relations of a C-141 re	ete to the lease no t by the mediate	ntifications ar NMOCD ma contamination	nd perform correct arked as "Final Re on that pose a three	tive actions eport" does eat to groun	s for rele s not relie nd water	eases which meve the operate, surface water	ay er or of r, hu	ndanger f liabilit man he	y
							OIL CONS	SERVA	TION	DIVISION	1		
Signature:				<del></del>		Approved by	District Superviso	or:					
rinted Name	Lee Gardn	er		L		11							

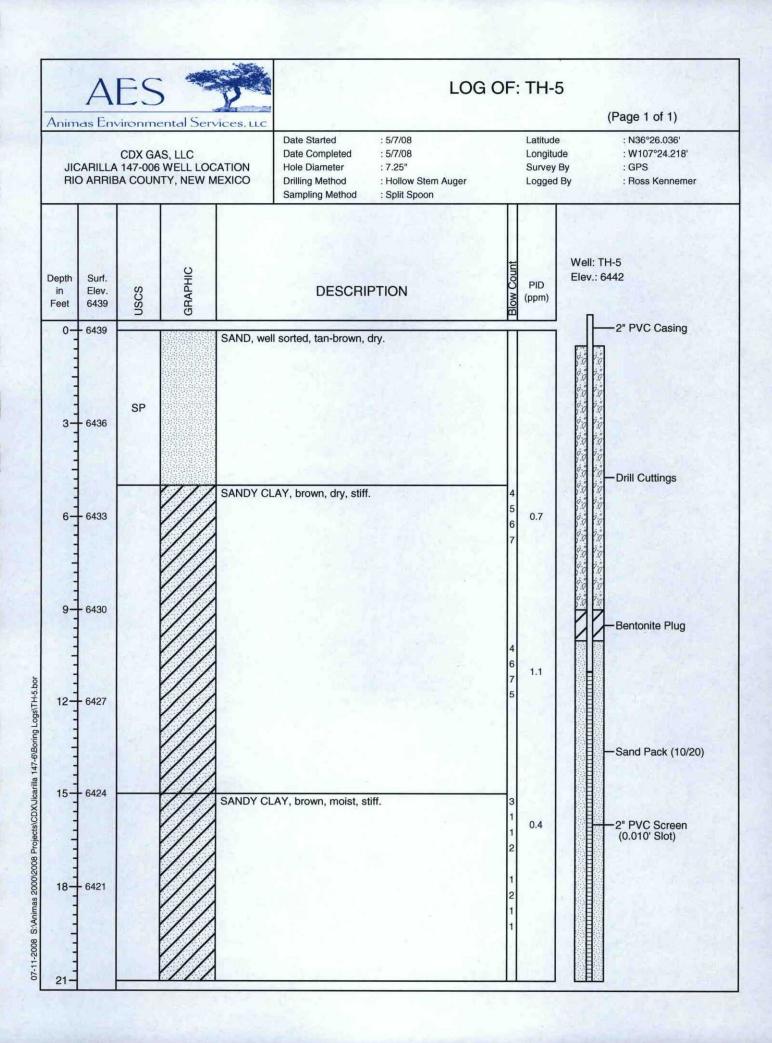
Title: HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address:lee.gardner@cdxgas.com	Conditions of Approval:	Attached
Date: December 5, 2007 Phone: 505-324-5427		

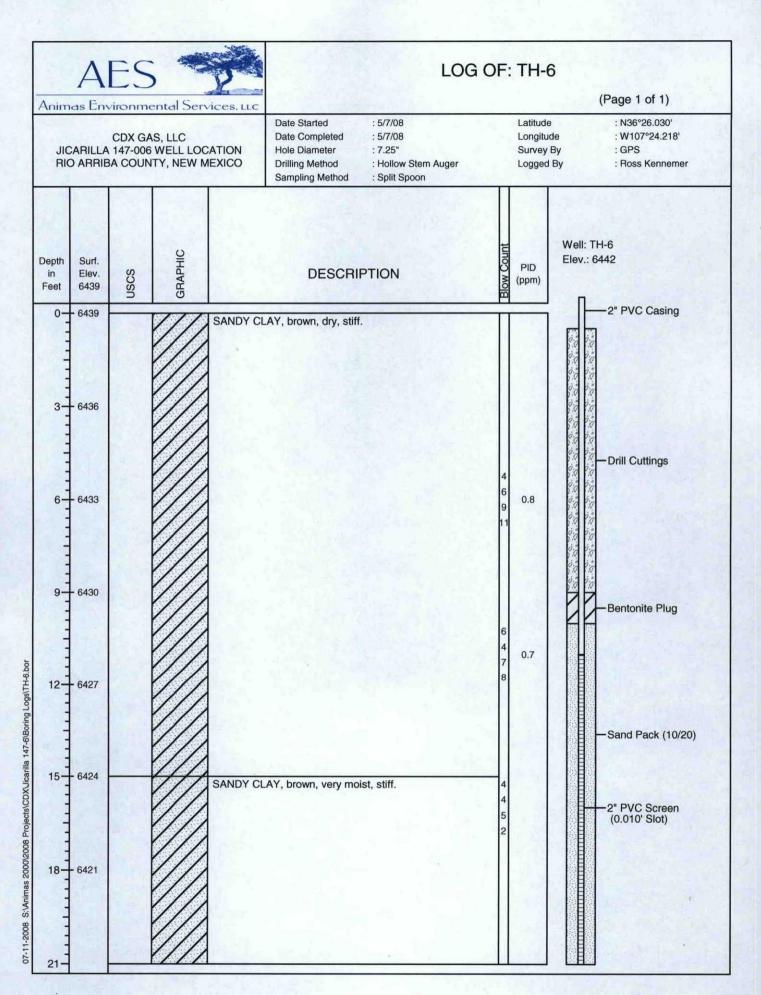


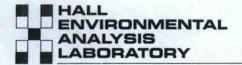












#### COVER LETTER

Tuesday, April 08, 2008

Lany Cupps Animas Environmental Services 624 East Comanche Farmington, NM 87401

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

RE: Cox Jicarilla 147-6

Dear Lany Cupps:

Order No.: 0804003

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 4/1/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001



Date: 08-Apr-08

CLIENT:

Animas Environmental Services

Project:

Cox Jicarilla 147-6

Lab Order:

0804003

**CASE NARRATIVE** 

<sup>&</sup>quot;S" flags denote that the surrogate recovery was elevated due to sample dilution or matrix interferences.

CLIENT: Animas Environmental Services

Lab Order:

0804003

Project:

Cox Jicarilla 147-6

Lab ID:

0804003-01

Date: 08-Apr-08

Client Sample ID: Sample #1- NE Corner

Collection Date: 3/27/2008 9:10:00 AM

Date Received: 4/1/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS	No.		- 1177	Hiller La	Analyst: SCC
Diesel Range Organics (DRO)	76	10		mg/Kg	1	4/7/2008 1:50:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2008 1:50:12 PM
Surr: DNOP	98.2	61.7-135		%REC	1	4/7/2008 1:50:12 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	2700	500	1	mg/Kg	100	4/3/2008 8:44:59 PM
Surr: BFB	121	84-138		%REC	100	4/3/2008 8:44:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	12	5.0	1	mg/Kg	100	4/3/2008 8:44:59 PM
Toluene	140	5.0	r	mg/Kg	100	4/3/2008 8:44:59 PM
Ethylbenzene	21	5.0	r	mg/Kg	100	4/3/2008 8:44:59 PM
Xylenes, Total	250	10	r	mg/Kg	100	4/3/2008 8:44:59 PM
Surr: 4-Bromofluorobenzene	92.0	81.4-117		%REC	100	4/3/2008 8:44:59 PM

Qualifiers:

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

Page 1 of 7

Tritary 515 Land of atory , life.

CLIENT: Animas Environmental Services

0804003

Project: Cox Jicarilla 147-6

Lab ID: 0804003-02

Lab Order:

Client Sample ID: Sample #2- SE Corner Collection Date: 3/27/2008 9:16:00 AM

Date Received: 4/1/2008

Matrix: MEOH (SOIL)

Date: 08-Apr-08

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS		NAME OF TAXABLE		Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2008 2:24:38 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2008 2:24:38 PM
Surr: DNOP	103	61.7-135	%REC	1	4/7/2008 2:24:38 PM
EPA METHOD 8015B: GASOLINE RAM	IGE				Analyst: NSB
Gasoline Range Organics (GRO)	120	25	mg/Kg	5	4/3/2008 9:15:29 PM
Surr: BFB	129	84-138	%REC	5	4/3/2008 9:15:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	0.29	0.25	mg/Kg	5	4/3/2008 9:15:29 PM
Toluene	4.0	0.25	mg/Kg	5	4/3/2008 9:15:29 PM
Ethylbenzene	0.66	0.25	mg/Kg	5	4/3/2008 9:15:29 PM
Xylenes, Total	7.9	0.50	mg/Kg	5	4/3/2008 9:15:29 PM
Surr: 4-Bromofluorobenzene	98.1	81.4-117	%REC	5	4/3/2008 9:15:29 PM

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

Page 2 of 7

Date: 08-Apr-08

CLIENT:

Animas Environmental Services

Lab Order:

0804003

Project:

Cox Jicarilla 147-6

Lab ID:

0804003-03

Client Sample ID: Sample #3- N Mid

Collection Date: 3/27/2008 9:25:00 AM

Date Received: 4/1/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS			19 11	Physical Co.	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2008 2:59:02 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2008 2:59:02 PM
Surr: DNOP	101	61.7-135	%REC	1	4/7/2008 2:59:02 PM
EPA METHOD 8015B: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/3/2008 9:45:58 PM
Surr: BFB	106	84-138	%REC	1	4/3/2008 9:45:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	4/3/2008 9:45:58 PM
Toluene	ND	0.050	mg/Kg	1	4/3/2008 9:45:58 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/3/2008 9:45:58 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/3/2008 9:45:58 PM
Surr: 4-Bromofluorobenzene	91.6	81.4-117	%REC	1	4/3/2008 9:45:58 PM

Qualifiers:

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

Page 3 of 7

CLIENT: Animas Environmental Services

Lab Order:

0804003

Project:

Cox Jicarilla 147-6

Lab ID:

0804003-04

Date: 08-Apr-08

Client Sample ID: Sample #4- S Mid

Collection Date: 3/27/2008 9:30:00 AM

Date Received: 4/1/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2008 3:33:25 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2008 3:33:25 PM
Surr: DNOP	93.7	61.7-135	%REC	1	4/7/2008 3:33:25 PM
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/3/2008 10:16:35 PM
Surr: BFB	104	84-138	%REC	1	4/3/2008 10:16:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	4/3/2008 10:16:35 PM
Toluene	ND	0.050	mg/Kg	1	4/3/2008 10:16:35 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/3/2008 10:16:35 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/3/2008 10:16:35 PM
Surr: 4-Bromofluorobenzene	90.3	81.4-117	%REC	1	4/3/2008 10:16:35 PM

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 4 of 7

Date: 08-Apr-08

CLIENT:

Animas Environmental Services

Lab Order:

0804003

Project:

Cox Jicarilla 147-6

Lab ID:

0804003-05

Client Sample ID: Sample #5- SW Corner

Collection Date: 3/27/2008 9:37:00 AM

Date Received: 4/1/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				TENEDO F	Analyst: SCC
Diesel Range Organics (DRO)	120	10		mg/Kg	1	4/7/2008 4:03:59 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2008 4:03:59 PM
Surr: DNOP	99.2	61.7-135		%REC	1	4/7/2008 4:03:59 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	3000	500		mg/Kg	100	4/4/2008 1:37:07 PM
Surr: BFB	188	84-138	S	%REC	100	4/4/2008 1:37:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		mg/Kg	20	4/4/2008 11:34:55 AM
Toluene	18	1.0		mg/Kg	20	4/4/2008 11:34:55 AM
Ethylbenzene	. 8.9	1.0		mg/Kg	20	4/4/2008 11:34:55 AM
Xylenes, Total	210	10		mg/Kg	100	4/4/2008 1:37:07 PM
Surr: 4-Bromofluorobenzene	104	81.4-117		%REC	100	4/4/2008 1:37:07 PM

Qualifiers:

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

Page 5 of 7

CLIENT:

Animas Environmental Services

Lab Order:

0804003

Project:

Cox Jicarilla 147-6

Lab ID:

0804003-06

Date: 08-Apr-08

Client Sample ID: Sample #6- NW Corner

Collection Date: 3/27/2008 9:43:00 AM

Date Received: 4/1/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS		77378		Analyst: SCC
Diesel Range Organics (DRO)	72	10	mg/Kg	1	4/7/2008 4:38:25 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/7/2008 4:38:25 PM
Surr: DNOP	98.0	61.7-135	%REC	1	4/7/2008 4:38:25 PM
EPA METHOD 8015B: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	63	10	mg/Kg	2	4/4/2008 2:07:35 PM
Surr: BFB	127	84-138	%REC	2	4/4/2008 2:07:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.10	mg/Kg	2	4/4/2008 2:07:35 PM
Toluene	0.68	0.10	mg/Kg	2	4/4/2008 2:07:35 PM
Ethylbenzene	0.18	0.10	mg/Kg	2	4/4/2008 2:07:35 PM
Xylenes, Total	6.0	0.20	mg/Kg	2	4/4/2008 2:07:35 PM
Surr: 4-Bromofluorobenzene	105	81.4-117	%REC	2	4/4/2008 2:07:35 PM

Qua	lifiers:
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- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 6 of 7

Date: 08-Apr-08

CLIENT:

Animas Environmental Services

Lab Order:

0804003

Project:

Cox Jicarilla 147-6

Lab ID:

0804003-07

Client Sample ID: MeOH BLANK

**Collection Date:** 

Date Received: 4/1/2008

Matrix: MEOH BLANK

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/4/2008 12:36:00 PM
Surr: BFB	97.7	84-138	%REC	1	4/4/2008 12:36:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	4/4/2008 12:36:00 PM
Toluene	ND	0.050	mg/Kg	1	4/4/2008 12:36:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/4/2008 12:36:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/4/2008 12:36:00 PM
Surr: 4-Bromofluorobenzene	86.4	81.4-117	%REC	1	4/4/2008 12:36:00 PM

Qualifiers:

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

Page 7 of 7

# **QA/QC SUMMARY REPORT**

Client:

Animas Environmental Services

Project:

Cox Jicarilla 147-6

Work Order:

Date: 08-Apr-08

0804003

Analyte	Result	Units	PQL	%Rec	LowLimit H	lighLimit	%RPD RP	DLimit Qual
Method: EPA Method 8015B: D	iesel Range				24442			
Sample ID: MB-15538		MBLK			Batch ID:	15538	Analysis Date:	4/7/2008 12:07:04 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10					
Motor Oil Range Organics (MRO)	ND	mg/Kg	50					
Sample ID: LCS-15538		LCS			Batch ID:	15538	Analysis Date:	4/7/2008 12:41:29 PM
Diesel Range Organics (DRO)	38.86	mg/Kg	10	77.7	64.6	116		
Sample ID: LCSD-15538		LCSD			Batch ID:	15538	Analysis Date:	4/7/2008 1:15:51 PM
Diesel Range Organics (DRO)	35.27	mg/Kg	10	70.5	64.6	116	9.66 17	7.4
Method: EPA Method 8015B: G	asoline Ran	ne	The same of the					THE REPORT OF THE
Sample ID: 5ML RB	asonno ran	MBLK			Batch ID:	R27974	Analysis Date:	4/3/2008 1:04:11 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0					
Sample ID: 5ML RB		MBLK	12/11/		Batch ID:	R27987	Analysis Date:	4/4/2008 8:57:57 AM
Gasoline Range Organics (GRO)	ND		5.0			112.00	randiyolo bato.	41412000 0.01.01 AM
	IND	mg/Kg	5.0		Datab ID.	40040	A t	415/0000 4 55 05 04
Sample ID: MB-15515		MBLK			Batch ID:	15515	Analysis Date:	4/5/2008 4:55:27 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0					
Sample ID: 2.5UG GRO LCS		LCS			Batch ID:	R27987	Analysis Date:	4/4/2008 3:08:04 PM
Gasoline Range Organics (GRO)	25.60	mg/Kg	5.0	102	69.5	120		
sample ID: LCS-15515		LCS			Batch ID:	15515	Analysis Date:	4/5/2008 4:25:17 PM
Sasoline Range Organics (GRO)	24.72	mg/Kg	5.0	98.9	69.5	120		
ample ID: 2.5UG GRO LCSD		LCSD			Batch ID:	R27987	Analysis Date:	4/4/2008 3:38:16 PM
							, , , , , , , , , , , , , , , , , , , ,	

Qualifiers:	Q	ua	lifi	e	rs:
-------------	---	----	------	---	-----

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Page 1

Date: 08-Apr-08

# **QA/QC SUMMARY REPORT**

Client: Animas Environmental Services

Project: Cox Jicarilla 147-6 Work Order: 0804003

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD I	RPDL	imit Qual
Method: EPA Method 8021B: V	olatiles		THE			arket state			
Sample ID: 5ML RB		MBLK			Batch II	D: 15515	Analysis Date	e:	4/3/2008 1:04:11 PM
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10						
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: 5ML RB		MBLK			Batch ID	): R27987	Analysis Date	e:	4/4/2008 8:57:57 AM
Benzene .	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: MB-15515		MBLK			Batch ID	15515	Analysis Date	:	4/5/2008 4:55:27 PM
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10						
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	. mg/Kg	0.050						
Kylenes, Total	ND	mg/Kg	0.10						
Sample ID: 100NG BTEX LCS		LCS			Batch ID	: R27987	Analysis Date		4/4/2008 4:38:43 PM
Benzene '	0.9639	mg/Kg	0.050	96.4	78.8	132			
Foluene	0.9946	mg/Kg	0.050	98.1	78.9	112			
Ethylbenzene	0.9878	mg/Kg	0.050	98.8	69.3	125			
Kylenes, Total	2.882	mg/Kg	0.10	96.1	73	128			
Sample ID: LCS-15515		LCS			Batch ID		Analysis Date:		4/5/2008 4:25:17 PM
Methyl tert-butyl ether (MTBE)	0.4842	mg/Kg	0.10	118	67.9	135			
Benzene	0.3310	mg/Kg	0.050	118	78.8	132			
Foluene	2.202	mg/Kg	0.050	109	78.9	112			
Ethylbenzene	0.4651	mg/Kg	0.050	116	69.3	125			
(ylenes, Total	2.763	mg/Kg	0.10	120	73	128			
Sample ID: 100NG BTEX LCSD		LCSD			Batch ID	R27987	Analysis Date:	2.19	4/4/2008 5:09:13 PM
Benzene	0.9759	mg/Kg	0.050	97.6	78.8	132	1.24	27	
oluene	0.9782	mg/Kg	0.050	96.5	78.9	112	1.66	19	
thylbenzene	0.9738	mg/Kg	0.050	97.4	69.3	125	1.43	10	
ylenes, Total	2.883	mg/Kg	0.10	96.1	73	128	0.0278	13	

### Qualifiers:

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

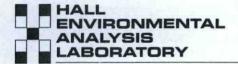
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 2

### Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL		Date Recei	ved:	4/1/2008	
Work Order Number 0804003		Received	by: TLS		
Checklist completed by: Janux Shomin Signature  Matrix: Carrie	er name Greyhoung	05	) labels checked by:	Initials	
Shipping container/cooler in good condition?	Yes 🗹	No 🗆	Not Present		
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗆	Not Present	Not Shipped	
Custody seals intact on sample bottles?	Yes 🗹	No 🗆	N/A		
Chain of custody present?	Yes 🗹	No 🗆			
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗆			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗆			
Samples in proper container/bottle?	Yes 🗹	No 🗆			
Sample containers intact?	Yes 🗹	No 🗆			
Sufficient sample volume for indicated test?	Yes <b>☑</b>	No 🗆			
All samples received within holding time?	Yes 🗹	No 🗆			
Water - VOA vials have zero headspace? No VOA v	ials submitted	Yes 🗆	No 🗆		
Water - Preservation labels on bottle and cap match?	Yes 🗆	No 🗆	N/A 🗹		
Water - pH acceptable upon receipt?	Yes 🗆	No 🗆	N/A ✓		
Container/Temp Blank temperature?	5°	<6° C Accepta	able		
COMMENTS:		If given sufficie	nt time to cool.		
					4
Client contacted Date contact	ed:	Pe	rson contacted		
Contacted by: Regarding:					
Comments:					
	1-18-18-11				
0-10-10-10-10-10-10-10-10-10-10-10-10-10					
Corrective Action					
	A IS TAX NO			71.5	

Ch	nain-of-	Custody Record	Turn-Around	Time:	THE STATE OF						_							
Client:	nimas	Environmental Suc	Standard Project Name														TOR	
Address:	LOUE	<b>(</b>	0011	. 11	in i				wv	w.ha	llenv	rironr	ment	al.co	m			
Tour	6296	Comanche	Project #	earilla 12	11-6	4	490	1 Ha	wkins	NE -	- Alb	ouque	erqu	e, NI	M 871	109		
		HIGH DIEN		307			Tel	. 505	-345-	THE OWNER WHEN	Contract of the last	Name and Address of the Owner, where	-	_	4107			
	505-569		Droingt Man	DUT						<i>,</i>	Analy		Req	uest		A distribution		
QA/QC Pa	ackage:	ps@animusenvinonmental.	Project Mana	ager:		21)	only)	iese				SO <sub>4</sub> )	S					
Stand	ard	□ Level 4 (Full Validation)	Lany (	upos	E NO.	TMB's (8021)	+ TPH (Gas	(Gas/Diesel)				2,PO4,	82 PCB's				2	
□ EDD (	Type)		On Ice:	vad Dau	□ No	Į. F		15B	8.1)	(09	(H)	3,N	/ 8082		3	7	Slas	2
			Sample Tem		60	H #	3E +	80	d 41	d 82	or P/	8,	des		0	-01	STREET	o ≿
Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1) EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	STEX (	6401DRO	Air Bubbles (Y or N)
3/27/08	0910	Sample +1 - NE Corner	1-602 glass	mooting	\ \						-			- W		X	X	1
(	0916	1 #2-SECorner	(	5	2										一		4	
7	0925	#3-1 Mid			3												7	
	0930	44-5 mid		0.20	ч						370				-	5	5	
	0937	#5-Sw former			5					+			7			1		
	0943	+6-NW Corner					1										$\frac{1}{1}$	1/4
WHEE	0.10	MeoH blank IPlan			7					-					-	7	×   -	
		1 XON DIGHTE 41110					+	+	+						7	-		
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								+										
NEW BALL									+						-			
Date:	Time: 1400	Relinquished by:		Received by:	οΛ , ,	80			y 3									
Date: 331/08	1800	Relinquished by:  Andrea R. Lupos  s submitted to Hall Environmental may be subc		Received by.	4/1/08				OIOR									



#### COVER LETTER

Thursday, April 24, 2008

Lany Cupps Animas Environmental Services 624 East Comanche Farmington, NM 87401

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

RE: COX Jicarilla 147-6

Dear Lany Cupps:

Order No.: 0804219

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 4/17/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001



CLIENT: Animas Environmental Services

Lab Order: 0804219

Project: COX Jicarilla 147-6

Lab ID: 0804

0804219-01

Date: 24-Apr-08

Client Sample ID: TH-1 @ 16'-17'

Collection Date: 4/17/2008 9:40:00 AM

Date Received: 4/17/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		AL THE A		Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/23/2008 2:53:38 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/23/2008 2:53:38 PM
Surr: DNOP	99.1	61.7-135	%REC	1	4/23/2008 2:53:38 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/23/2008 6:37:04 PM
Surr: BFB	112	84-138	%REC	1	4/23/2008 6:37:04 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	4/23/2008 6:37:04 PM
Toluene	ND	0.050	mg/Kg	1	4/23/2008 6:37:04 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/23/2008 6:37:04 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/23/2008 6:37:04 PM
Surr: 4-Bromofluorobenzene	95.3	81.4-117	%REC	1	4/23/2008 6:37:04 PM

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

Date: 24-Apr-08

# **QA/QC SUMMARY REPORT**

Client:

Animas Environmental Services

Project:

COX Jicarilla 147-6

Work Order:

0804219

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RF	PDLimit Qual
Method: EPA Method 8015B: D	iesel Range	Organics				Va TEET		
Sample ID: MB-15712		MBLK			Batch	D: 15712	Analysis Date:	4/22/2008 5:09:03 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10					
Motor Oil Range Organics (MRO)	ND	mg/Kg	50					
Sample ID: LCS-15712		LCS			Batch I	D: 15712	Analysis Date:	4/22/2008 5:44:01 PM
Diesel Range Organics (DRO)	51.10	mg/Kg	10	102	64.6	116		
Sample ID: LCSD-15712		LCSD			Batch I	D: 15712	Analysis Date:	4/22/2008 6:18:56 PM
Diesel Range Organics (DRO)	57.50	mg/Kg	10	115	64.6	116	11.8 1	7.4
Method: EPA Method 8015B: G	asoline Ran	ge						
Sample ID: 5ML RB		MBLK			Batch I	D: <b>R28224</b>	Analysis Date:	4/23/2008 9:02:53 AM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0					
Sample ID: 2.5UG GRO LCS		LCS			Batch I	D: R28224	Analysis Date:	4/23/2008 11:03:21 AM
Gasoline Range Organics (GRO)	25.98	mg/Kg	5.0	104	69.5	120		
Method: EPA Method 8021B: Ve	olatiles							
Sample ID: 5ML RB		MBLK			Batch I	D: <b>R28224</b>	Analysis Date:	4/23/2008 9:02:53 AM
Benzene	ND	mg/Kg	0.050					
Toluene	ND	mg/Kg	0.050					
Ethylbenzene	ND	mg/Kg	0.050					
Xylenes, Total	ND	mg/Kg	0.10					
Sample ID: 2.5UG GRO LCS		LCS			Batch I	D: <b>R28224</b>	Analysis Date:	4/23/2008 11:03:21 AM
Benzene	0.3128	mg/Kg	0.050	112	78.8	132		
Toluene	2.148	mg/Kg	0.050	107	78.9	112		
Ethylbenzene	0.4437	mg/Kg	0.050	111	69.3	125		
Xylenes, Total	2.592	mg/Kg	0.10	113	73	128		

#### Qualifiers

R RPD outside accepted recovery limits

S Spike recovery outside accepted recovery limits

E Value above quantitation range

J Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

# Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL				Date Receive	d:		4/17/2008	
Work Order Number 0804219				Received by	: AMF		NA	
Checklist completed by: Any Singlature  Matrix:	Carrier name	Clie	4 17 bate	lox	abels checked	by:	Initials	
	Survey Humb	Olic	int drop or					
Shipping container/cooler in good condition?		Yes		No 🗆	Not Present			
Custody seals intact on shipping container/cook	ler?	Yes		No 🗆	Not Present		Not Shipped	<b>V</b>
Custody seals intact on sample bottles?		Yes		No 🗆	N/A			
Chain of custody present?		Yes		No 🗆				
Chain of custody signed when relinquished and	I received?	Yes	✓	No 🗆				
Chain of custody agrees with sample labels?		Yes	✓	No 🗆				
Samples in proper container/bottle?		Yes	✓	No 🗆				
Sample containers intact?		Yes	<b>✓</b>	No 🗆				
Sufficient sample volume for indicated test?		Yes	•	No 🗆				
All samples received within holding time?		Yes	<b>V</b>	No 🗆				
Water - VOA vials have zero headspace?	No VOA vials subm	itted	✓	Yes 🗆	No 🗆			
Water - Preservation labels on bottle and cap m	natch?	Yes		No 🗆	N/A ✓			
Water - pH acceptable upon receipt?		Yes		No 🗆	N/A ☑			
Container/Temp Blank temperature?			6°	<6° C Acceptabl	е			
COMMENTS:				If given sufficient	time to cool.			
				=====			====	===
Client contacted	Date contacted:			Perso	on contacted		C STAR	
Contacted by:	Regarding:							
Comments:								
	SURVE IT TO							
	THE STATE							
Corrective Action						1		
			3103			1		7 13

Cr	nain-of	-Custody Record	Turn-Around	Time:													See Land		
Client:	nimas	Environmental	Standard	□ Rush		-												ATI TOF	
Sour	rices	uc	Project Name	9:													-		
Address:	1,24 E	Comanche	( XU)	icarilla '	1476		49	01 H			/.hall					м 87 <sup>.</sup>	100		
Farm	inator	n.n.m 87401	Project #:	OST THE					5-34							4107			
Phone #:	505	564-2281	7. 081	307				1. 50	3-34	3-38		-		Requ		The second second			No.
email or	Fax#: Cu	205@animasenvironmen	Unioject Mana	iger:	* 19 10		(y	(e)					-						
Stand	ackage: ard	□ Level 4 (Full Validation)	lany	Cupps		TMB's (8021)	H (Gas on	Gas/Dies					2,PO4,SC	2 PCB's					
□ EDD (	Type)		Sampler: 20	SS Lenr	lemer DNO	1	효	5B (	3.1	1.1	000	Î	8	808					Î
	.,,,,,			perature: 6°C			+ 3	801	141	1 50	182	r PA	NO	les /		10A			\ o \
Date	Time	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
4117108	0940	TH-1@16'-17'	2 Viais+	meat 4°C		X		X					`	w	- W	w			
			13.6				F				-								
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Date:	Time: 1435	Relinquished by:		Received by:	1435	Ren	narks	;; ( &	, '02	-1		1							
Date:	Time:	Relinquished by:		Received by:	7138	171	PH	4	-Cz	6	3D1:	5							
If ne	cessary sample	es submitted to Hall Environmental may be suit	contracted to other a	and the state of t															



#### COVER LETTER

Tuesday, May 20, 2008

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

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

RE: CDX Jic 147-006

Dear Ross Kennemer:

Order No.: 0805174

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 5/13/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001



CLIENT: Animas Environmental Services

Lab Order: 0805174

Project: CDX Jic 147-006

Lab ID: 0805174-01

Date: 20-May-08

Client Sample ID: TH-2 @ 15'

Collection Date: 5/7/2008 10:35:00 AM

Date Received: 5/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE C	RGANICS					Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/16/2008 6:27:11 AM
Motor Oil Range Organics (MRO)	ND	50	- 1	mg/Kg	1	5/16/2008 6:27:11 AM
Surr: DNOP	101	61.7-135		%REC	1	5/16/2008 6:27:11 AM
EPA METHOD 8015B: GASOLINE RANG	E					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/14/2008 1:20:10 AM
Surr: BFB	90.4	84-138	•	%REC	1	5/14/2008 1:20:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050	1	mg/Kg	1	5/14/2008 1:20:10 AM
Toluene	ND	0.050	1	mg/Kg	1	5/14/2008 1:20:10 AM
Ethylbenzene	ND	0.050	- 1	mg/Kg	1	5/14/2008 1:20:10 AM
Xylenes, Total	ND	0.10	r	mg/Kg	1	5/14/2008 1:20:10 AM
Surr: 4-Bromofluorobenzene	89.4	81.4-117		%REC	1	5/14/2008 1:20:10 AM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	46	1.5	r	mg/Kg	5	5/16/2008 9:25:14 PM

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

Date: 20-May-08

CLIENT:

**Animas Environmental Services** 

Lab Order:

0805174

Project:

CDX Jic 147-006

Lab ID:

0805174-02

Client Sample ID: TH-3 @ 15'

Collection Date: 5/7/2008 11:25:00 AM

Date Received: 5/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS		" I gottenio	F SEVIEW	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/16/2008 7:00:56 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/16/2008 7:00:56 AM
Surr: DNOP	101	61.7-135	%REC	1	5/16/2008 7:00:56 AM
EPA METHOD 8015B: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/14/2008 1:50:13 AM
Surr: BFB	96.6	84-138	%REC	1	5/14/2008 1:50:13 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/14/2008 1:50:13 AM
Toluene	ND	0.050	mg/Kg	1	5/14/2008 1:50:13 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/14/2008 1:50:13 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/14/2008 1:50:13 AM
Surr: 4-Bromofluorobenzene	97.0	81.4-117	%REC	1	5/14/2008 1:50:13 AM
EPA METHOD 9056A: ANIONS					Analyst: SLB
Chloride	2.9	1.5	mg/Kg	5	5/16/2008 9:42:39 PM

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

Date: 20-May-08

CLIENT: Lab Order: Animas Environmental Services

0805174

Project:

CDX Jic 147-006

Lab ID:

0805174-03

Client Sample ID: TH-4 @ 15'

Collection Date: 5/7/2008 12:20:00 PM

Date Received: 5/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			M-CV	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/16/2008 7:34:44 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/16/2008 7:34:44 AM
Surr: DNOP	101	61.7-135	%REC	1	5/16/2008 7:34:44 AM
EPA METHOD 8015B: GASOLINE RANG	GE .				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/14/2008 2:20:14 AM
Surr. BFB	102	84-138	%REC	1	5/14/2008 2:20:14 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	5/14/2008 2:20:14 AM
Benzene	ND	0.050	mg/Kg	1	5/14/2008 2:20:14 AM
Toluene	ND	0.050	mg/Kg	1	5/14/2008 2:20:14 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/14/2008 2:20:14 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/14/2008 2:20:14 AM
Surr: 4-Bromofluorobenzene	102	81.4-117	%REC	1	5/14/2008 2:20:14 AM
EPA METHOD 9056A: ANIONS					Analyst: SLB
Chloride	40	1.5	mg/Kg	5	5/16/2008 10:00:03 PM

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

Page 3 of 9

CLIENT: Animas Environmental Services

Lab Order: 0805174

Project: CDX Jic 147-006

Lab ID: 0805174-04

Date: 20-May-08

Client Sample ID: TH-4 @ 17'

Collection Date: 5/7/2008 12:22:00 PM

Date Received: 5/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS		1. 1165	virtue d'	Analyst: SCC
Diesel Range Organics (DRO)	12	10	mg/Kg	1	5/16/2008 8:08:49 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/16/2008 8:08:49 AM
Surr: DNOP	104	61.7-135	%REC	1	5/16/2008 8:08:49 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	620	250	mg/Kg	50	5/15/2008 1:42:43 AM
Surr: BFB	120	84-138	%REC	50	5/15/2008 1:42:43 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	5	5/14/2008 2:50:22 AM
Benzene	0.29	0.25	mg/Kg	5	5/14/2008 2:50:22 AM
Toluene	5.4	0.25	mg/Kg	5	5/14/2008 2:50:22 AM
Ethylbenzene	5.6	0.25	mg/Kg	5	5/14/2008 2:50:22 AM
Xylenes, Total	74	5.0	mg/Kg	50	5/15/2008 1:42:43 AM
Surr: 4-Bromofluorobenzene	109	81.4-117	%REC	50	5/15/2008 1:42:43 AM
EPA METHOD 9056A: ANIONS					Analyst: SLB
Chloride	57	3.0	mg/Kg	10	5/16/2008 10:17:28 PM

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

CLIENT: Animas Environmental Services

Lab Order: 0805174

Project: CDX Jic 147-006

Lab ID: 03

0805174-05

Date: 20-May-08

Client Sample ID: TH-5 @ 17'

Collection Date: 5/7/2008 1:25:00 PM

Date Received: 5/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/16/2008 8:42:54 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/16/2008 8:42:54 AM
Surr: DNOP	104	61.7-135	%REC	1	5/16/2008 8:42:54 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/15/2008 2:42:42 AM
Surr: BFB	87.5	84-138	%REC	1	5/15/2008 2:42:42 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	5/15/2008 2:42:42 AM
Benzene	ND	0.050	mg/Kg	1	5/15/2008 2:42:42 AM
Toluene	ND	0.050	mg/Kg	1	5/15/2008 2:42:42 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/15/2008 2:42:42 AM
Xylenęs, Total	ND	0.10	mg/Kg	1	5/15/2008 2:42:42 AM
Surr: 4-Bromofluorobenzene	87.3	81.4-117	%REC	1	5/15/2008 2:42:42 AM
EPA METHOD 9056A: ANIONS					Analyst: SLB
Chloride	100	3.0	mg/Kg	10	5/16/2008 10:34:52 PM

Qualifiers:

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

Page 5 of 9

**Animas Environmental Services** CLIENT:

Lab Order: 0805174 Project:

CDX Jic 147-006

Lab ID:

0805174-06

Date: 20-May-08

Client Sample ID: TH-6 @ 17'

Collection Date: 5/7/2008 2:15:00 PM

Date Received: 5/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS	FW 77 5		reality.	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/16/2008 9:16:57 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/16/2008 9:16:57 AM
Surr: DNOP	103	61.7-135	%REC	1	5/16/2008 9:16:57 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/14/2008 3:50:31 AM
Surr: BFB	106	84-138	%REC	1	5/14/2008 3:50:31 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	5/14/2008 3:50:31 AM
Benzene	ND	0.050	mg/Kg	1	5/14/2008 3:50:31 AM
Toluene	ND	0.050	mg/Kg	1	5/14/2008 3:50:31 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/14/2008 3:50:31 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/14/2008 3:50:31 AM
Surr: 4-Bromofluorobenzene	104	81.4-117	%REC	1	5/14/2008 3:50:31 AM
EPA METHOD 9056A: ANIONS					Analyst: SLB
Chloride	150	3.0	mg/Kg	10	5/16/2008 10:52:16 PM

- Value exceeds Maximum Contaminant Level
- Value above quantitation range E
- Analyte detected below quantitation limits
- Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT: Animas Environmental Services

Lab Order: 0805174

Project: CDX Jic 147-006

Lab ID: 0805174-07

Date: 20-May-08

Client Sample ID: TH-2

Collection Date: 5/7/2008 3:00:00 PM

Date Received: 5/13/2008 Matrix: AQUEOUS

Analyses	Result	PQL (	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE			ALC REMAY LE	PAREN.	Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	5/15/2008 9:51:35 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	5/15/2008 9:51:35 AM
Surr: DNOP	107	58-140	%REC	1	5/15/2008 9:51:35 AM
EPA METHOD 8015B: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	0.088	0.050	mg/L	1	5/14/2008 3:38:46 PM
Surr: BFB	106	79.2-121	%REC	1	5/14/2008 3:38:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	5/14/2008 3:38:46 PM
Toluene	1.0	1.0	μg/L	1	5/14/2008 3:38:46 PM
Ethylbenzene	ND	1.0	µg/L	-1	5/14/2008 3:38:46 PM
Xylenes, Total	ND	2.0	μġ/L	1	5/14/2008 3:38:46 PM
Surr: 4-Bromofluorobenzene	105	68.9-122	%REC	1	5/14/2008 3:38:46 PM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	6.3	1.0	mg/L	10	5/19/2008 2:07:56 PM

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

Date: 20-May-08

CLIENT:

**Animas Environmental Services** 

Lab Order:

0805174

Project:

CDX Jic 147-006

Lab ID:

0805174-08

Client Sample ID: TH-3

Collection Date: 5/7/2008 3:40:00 PM

Date Received: 5/13/2008

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE				Tinge !	Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	5/15/2008 10:17:28 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	5/15/2008 10:17:28 AM
Surr: DNOP	112	58-140	%REC	1	5/15/2008 10:17:28 AM
EPA METHOD 8015B: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	5/14/2008 4:08:52 PM
Surr: BFB	101	79.2-121	%REC	1	5/14/2008 4:08:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	μg/L	1	5/14/2008 4:08:52 PM
Toluene	ND	1.0	μg/L	1	5/14/2008 4:08:52 PM
Ethylbenzene	ND	1.0	µg/L	1	5/14/2008 4:08:52 PM
Xylenes, Total	ND	2.0	µg/L	1	5/14/2008 4:08:52 PM
Surr: 4-Bromofluorobenzene	98.9	68.9-122	%REC	1	5/14/2008 4:08:52 PM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	19	1.0	mg/L	10	5/19/2008 2:25:21 PM

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

Date: 20-May-08

CLIENT:

Animas Environmental Services

0805174

Lab Order:

Project:

CDX Jic 147-006

Lab ID:

0805174-09

Client Sample ID: TH-4

Collection Date: 5/7/2008 4:05:00 PM

Date Received: 5/13/2008

Matrix: AQUEOUS

Analyses	Result	PQL (	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE				Lings in	Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	5/15/2008 10:46:16 AM
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	5/15/2008 10:46:16 AM
Surr: DNOP	127	58-140	%REC	1	5/15/2008 10:46:16 AM
EPA METHOD 8015B: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	29	2.5	mg/L	50	5/15/2008 12:25:05 PM
Surr: BFB	101	79.2-121	%REC	50	5/15/2008 12:25:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	900	50	μg/L	50	5/15/2008 12:25:05 PM
Toluene	180	50	µg/L	50	5/15/2008 12:25:05 PM
Ethylbenzene	740	50	µg/L	50	5/15/2008 12:25:05 PM
Xylenes, Total	9200	100	μg/L	50	5/15/2008 12:25:05 PM
Surr: 4-Bromofluorobenzene	105	68.9-122	%REC	50	5/15/2008 12:25:05 PM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	280	1.0	mg/L	10	5/19/2008 2:42:45 PM

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits
- Not Detected at the Reporting Limit ND
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

# QA/QC SUMMARY REPORT

Client:

Animas Environmental Services

Project:

CDX Jic 147-006

Work Order:

Date: 20-May-08

0805174

014-	Desult	Unite	DOL	0/ Dag	Laud insit	Himbl insit	0/ DDD DI	DDI imit. Ovel
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RI	PDLimit Qual
Method: EPA Method 9056A: A	nions							
Sample ID: MB-15967		MBLK			Batch II	D: 15967	Analysis Date:	.5/16/2008 8:50:25 P
Chloride	ND	mg/Kg	0.30					
Sample ID: LCS-15967		LCS			Batch II	D: 15967	Analysis Date:	5/16/2008 9:07:50 PI
Chloride	14.48	mg/Kg	0.30	96.5	90	110	THE TAX	
Method: EPA Method 300.0: Ar	nions							
Sample ID: MB		MBLK			Batch II	D: R28572	Analysis Date:	5/19/2008 9:29:23 Al
Chloride	ND	mg/L	0.10					
Sample ID: LCS		LCS			Batch II	D: R28572	Analysis Date:	5/19/2008 9:46:48 AM
Chloride	4.837	mg/L	0.10	96.7	90	110		
Method: EPA Method 8015B: D	iesel Range	Organics						
Sample ID: MB-15918		MBLK			Batch II	D: 15918	Analysis Date:	5/13/2008 7:04:53 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10					
Motor Oil Range Organics (MRO)	ND	mg/Kg	50					
Sample ID: LCS-15918		LCS			Batch ID	D: 15918	Analysis Date:	5/13/2008 7:39:19 PM
Diesel Range Organics (DRO)	47.95	mg/Kg	10	95.9	64.6	116		
Sample ID: LCSD-15918		LCSD			Batch ID	): 15918	Analysis Date:	5/13/2008 8:13:39 PM
Diesel Range Organics (DRO)	44.12	mg/Kg	10	88.2	64.6	116	8.31 1	7.4
Method: EPA Method 8015B: D	iesel Range							
Sample ID: MB-15916		MBLK			Batch ID	15916	Analysis Date:	5/13/2008 3:38:37 PM
Diesel Range Organics (DRO)	ND	mg/L	1.0					
Motor Oil Range Organics (MRO)	ND	mg/L	5.0					
Sample ID: LCS-15916		LCS			Batch ID	15916	Analysis Date:	5/13/2008 4:12:58 PM
Diesel Range Organics (DRO)	5.745	mg/L	1.0	115	74	157		
Sample ID: LCSD-15916		LCSD			Batch ID	15916	Analysis Date:	5/13/2008 4:47:21 PM
Diesel Range Organics (DRO)	5.346	mg/L	1.0	107	74	157	7.19 2	23
Method: EPA Method 8015B: G	asoline Ran	ge			FEI			
Sample ID: MB-15890		MBLK			Batch ID	15890	Analysis Date:	5/13/2008 10:49:44 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0					
Sample ID: LCS-15890		LCS			Batch ID	: R28509	Analysis Date:	5/13/2008 9:49:26 PM
Gasoline Range Organics (GRO)	27.24	mg/Kg	5.0	109	69.5	120		
Method: EPA Method 8015B: Ga	asoline Ran	ge		(4)				
Sample ID: 5ML RB		MBLK			Batch ID	R28526	Analysis Date:	5/14/2008 9:13:56 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050					
Sample ID: 5ML RB		MBLK			Batch ID	R28550	Analysis Date:	5/15/2008 8:42:06 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050					
Sample ID: 2.5UG GRO LCS		LCS	5.500		Batch ID	R28526	Analysis Date:	5/14/2008 9:42:10 PM
	0.5046		0.050	101				
Basoline Range Organics (GRO)	0.5046	mg/L	0.050	101	80	115		

#### Qualifiers:

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

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits 10

Page 1

# **QA/QC SUMMARY REPORT**

Client:

Animas Environmental Services

Project:

CDX Jic 147-006

Work Order:

Date: 20-May-08

0805174

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RP	DLimit Qual
Method: EPA Method 8021B:	Volatiles		Male .				Mark and	masil we did n
Sample ID: MB-15890		MBLK			Batch II	D: 15890	Analysis Date:	5/13/2008 10:49:44 PM
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10					
Benzene	ND	mg/Kg	0.050					
Toluene	ND	mg/Kg	0.050					
Ethylbenzene	ND	mg/Kg	0.050					
Xylenes, Total	ND	mg/Kg	0.10					
Sample ID: LCS-15890		LCS			Batch II	D: R28509	Analysis Date:	5/13/2008 9:49:26 PM
Methyl tert-butyl ether (MTBE)	0.4973	mg/Kg	0.10	121	67.9	135		
Benzene	0.3262	mg/Kg	0.050	117	78.8	132		
Toluene	2.173	mg/Kg	0.050	107	78.9	112		
Ethylbenzene	0.4519	mg/Kg	0.050	113	69.3	125		
Xylenes, Total	2.686	mg/Kg	0.10	117	73	128		
Method: EPA Method 8021B: \	/olatiles							
Sample ID: 5ML RB		MBLK			Batch II	): R28526	Analysis Date:	5/14/2008 9:13:56 AM
Benzene	ND	µg/L	1.0					
Toluene	ND	µg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	μg/L	2.0					
Sample ID: 5ML RB		MBLK			Batch ID	: R28550	Analysis Date:	5/15/2008 8:42:06 AM
Benzene	ND	µg/L	1.0					
Toluene	ND	μg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	μg/L	2.0					
Sample ID: 100NG BTEX LCS		LCS			Batch ID	: R28526	Analysis Date:	5/14/2008 7:41:35 PM
Benzene	20.52	μg/L	1.0	103	85.9	113		
Toluene	20.63	µg/L	1.0	103	86.4	113		
Ethylbenzene	20.86	µg/L	1.0	104	83.5	118		
(ylenes, Total	64.89	µg/L	2.0	108	83.4	122		

#### Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

#### Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL  Work Order Number 0805174  Whatric:  Carrier name  Shipping container/cooler in good condition?  Custody seals intact on shipping container/cooler?  Custody seals intact on shipping container/cooler?  Custody seals intact on sample bottles?  Chain of custody present?  Chain of custody agrees with sample labels?  Samples in proper container/bottle?  Samples in proper container/bottle?  Samples received by:  ARS  No   Not Present   Not Shipped    Not Chain of custody agrees with sample labels?  Yes   No    Sample Do Not Present   Not Shipped    Not Ship		inple Receipt C			
Checklist completed by: Signature  Matrix:  Carrier name  Greyhound  Shipping container/cooler in good condition?  Ves  No  Not Present  Not Shipped  Custody seals intact on shipping container/cooler?  Ves  No  Not Present  Not Shipped  Custody seals intact on sample bottles?  Ves  No  Not Present  Not Shipped  Custody seals intact on sample bottles?  Ves  No  Not Present  Not Shipped  Chain of custody present?  Chain of custody agrees with sample labels?  Yes  No  No  Samples in proper container/bottle?  Samples in proper container/bottle?  Yes  No  No  Not Present  Not Not Not Present  Not Not Present  Not Not Not Present  Not Not Present  Not Not Not Present  Not Not Not Present  Not Not Present  Not Not Not Not Not Not Not Not Not N	Client Name ANIMAS ENVIRONMENTAL		Date Recei	ved:	5/13/2008
Matrix:   Carrier name   Greyhound	Work Order Number 0805174				48
Shipping container/cooler in good condition?  Shipping container/cooler in good condition?  Custody seals intact on shipping container/cooler?  Yes		5 Date	3/08		Initials
Custody seals intact on shipping container/cooler?  Yes	Matrix: Carrier n	ame <u>Greyhound</u>			
Custody seals intact on sample bottles?  Chain of custody present?  Chain of custody signed when relinquished and received?  Chain of custody signed when relinquished and received?  Chain of custody agrees with sample labels?  Chain of custody agrees with sample labels?  Samples in proper container/bottle?  Sample containers intact?  Sample containers intact?  Yes  No   Sufficient sample volume for indicated test?  All samples received within holding time?  Water - VOA vials have zero headspace?  No VOA vials submitted  Yes  No  No  NIA  Water - Preservation labels on bottle and cap match?  Water - Preservation labels on bottle and cap match?  Water - Ph acceptable upon receipt?  Container/Temp Blank temperature?  Condiner/Temp Blank temperature?  Comments:  Client contacted  Date contacted:  Person contacted  Comments:	Shipping container/cooler in good condition?	Yes 🗹	No 🗆	Not Present	
Chain of custody signed when relinquished and received? Yes	Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗆	Not Present	Not Shipped
Chain of custody signed when relinquished and received? Yes	Custody seals intact on sample bottles?	Yes 🗆	No 🗆	N/A	
Chain of custody agrees with sample labels?  Samples in proper container/bottle?  Samples in proper containers intact?  Sample containers intact?  Yes  No  No  No  No  No  No  No  No  No  N	Chain of custody present?	Yes 🗹	No 🗆		
Samples in proper container/bottle?  Sample containers intact?  Sufficient sample volume for indicated test?  Yes  No  No  No  No  No  No  No  No  No  N	Chain of custody signed when relinquished and received?	Yes 🗹	No 🗆		
Sample containers intact?  Sufficient sample volume for indicated test?  All samples received within holding time?  Water - VOA vials have zero headspace?  No VOA vials submitted	Chain of custody agrees with sample labels?	Yes 🗹	No 🗆		
Sufficient sample volume for indicated test?  All samples received within holding time?  Water - VOA vials have zero headspace?  No VOA vials submitted	Samples in proper container/bottle?	Yes 🗹	No 🗆		
All samples received within holding time?  Water - VOA vials have zero headspace?  No VOA vials submitted	Sample containers intact?	Yes 🗹	No 🗆		
Water - VOA vials have zero headspace? No VOA vials submitted  Yes No No Water - Preservation labels on bottle and cap match? Yes No No N/A Water - pH acceptable upon receipt.	Sufficient sample volume for indicated test?	Yes 🗹	No 🗆		
Water - Preservation labels on bottle and cap match?  Water - pH acceptable upon receipt?  Container/Temp Blank temperature?  COMMENTS:  Client contacted  Date contacted:  Person contacted  Contacted by:  Regarding:  Comments:	All samples received within holding time?	Yes 🗹	No 🗆		
Water - Preservation labels on bottle and cap match?  Water - pH acceptable upon receipt?  Container/Temp Blank temperature?  COMMENTS:  Client contacted  Date contacted:  Person contacted  Contacted by:  Regarding:  Comments:	Nater - VOA vials have zero headspace? No VOA vials	submitted	Yes 🗹	No 🗆	
Container/Temp Blank temperature?  2° <6° C Acceptable If given sufficient time to cool.  Client contacted	Nater - Preservation labels on bottle and cap match?	Yes 🗌	No 🗆	N/A 🗹	
COMMENTS:  If given sufficient time to cool.  Client contacted Date contacted: Person contacted  Contacted by: Regarding:  Comments:	Nater - pH acceptable upon receipt?	Yes 🗌	No 🗆	N/A 🗹	
Comments:  Date contacted: Person contacted  Contacted by: Regarding:  Comments:	Container/Temp Blank temperature?	2°	<6° C Accepta	able	
Contacted by: Regarding:  Comments:	COMMENTS:		If given sufficie	ent time to cool.	
Contacted by: Regarding:  Comments:					
Contacted by: Regarding:  Comments:					
Comments:	Client contacted Date contacted:		Pe	rson contacted	
	Contacted by: Regarding:	VER WELL			
Corrective Action					
Corrective Action	Comments:	1 S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Corrective Action	Comments:				
Corrective Action	Comments:				
Corrective Action	Comments:				
	Comments:				

Ch	Chain-of-Custody Record			Turn-Around Time:								_		T	-		450		
Client: (	Animas	Environmental Services	Standard	Rush_	ط مع				A	NA	YL.	YS	IS		AE	30		TOR	
Address:	624 C	tomarche		,, , , ,			490	1 H								M 87	109		
		JM 87401	Project #:													4107			
	564-													Req				Territory (	MA
		24-2072	Project Mana	ger:			(ylu	sel)					04)						
QA/QC Pa		□ Level 4 (Full Validation)		ennemer		S S S S S S S S S S S S S S S S S S S	TPH (Gas only)	as/Die					,PO4,SO4)	PCB's	T				
□ Other	450	D. D. Articles (SIT)		& Kenner		MB	PH	B (6	F	=	6	F	NO	3082					9
□ EDD (	Type)		On Ice: Sample Tem	✓ Yes	□ No		+ =	3015	418	504	826	PAH	103,	/ Se		OA	2		or
Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0805174	BTEX ****	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method	EDC (Method	8310 (PNA or	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,P	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride		Air Bubbles (Y or N)
5-7-8	1035	TH-2 @ 151	Weth Kit			X		X						~	~	-	X		
5-7-08	1125		11		2	X	)					4		4			X		
5-7-08	1220	TH-40 15'	1)(		3	X		X								7.	V		
5-7-08	1222	TH-40 17'	1/)		4	X		X				IF					X		
5-7-08	1325	TH-50 17'	)(		5	X	ľ	X						4			X		
57-08	1415	TH-6217'	()		ь	X		X			7		-36				V		
5-7-08	1500	TH-2	4 40mil Aq	the said	7	X		X						8.0			X		
5-7-02	1540	TH-3	19 1	de sond	8	X		X									N		
5-7-08	1605	TH-4	AGT )		9	X		X									X		
				1-1															
Date:	Time:	Relinquished by:	THER	Redeived by:		10.00	narks	:											
5-12-18	1510			12	8:30 5 13 08														
Date:	Time:	Relinquished by:		Received by:															



#### COVER LETTER

Monday, June 23, 2008

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

TEL: (505) 486-1776 FAX (505) 324-2022

RE: CDX 147-6

Dear Ross Kennemer:

Order No.: 0806203

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 6/13/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001



CLIENT: Animas Environmental Services

Lab Order: 0806203

Project: CDX 147-6 Lab ID: 0806203-01

Client Sample ID: SS-1

Collection Date: 6/11/2008 9:45:00 AM

Date: 23-Jun-08

Date Received: 6/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/16/2008 9:17:36 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/16/2008 9:17:36 PM
Surr: DNOP	65.1	61.7-135		%REC	1	6/16/2008 9:17:36 PM
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/19/2008 1:08:38 PM
Surr: BFB	96.0	84-138		%REC	1	6/19/2008 1:08:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050	1	mg/Kg	1	6/19/2008 1:08:38 PM
Toluene	ND	0.050	1	mg/Kg	1	6/19/2008 1:08:38 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/19/2008 1:08:38 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/19/2008 1:08:38 PM
Surr: 4-Bromofluorobenzene	98.3	81.4-117		%REC	1	6/19/2008 1:08:38 PM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	41	1.5		mg/Kg	5	6/19/2008 6:11:50 PM

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits
- Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 23-Jun-08

CLIENT:

Animas Environmental Services

Lab Order:

0806203

Project:

CDX 147-6

Lab ID:

0806203-02

Client Sample ID: SS-2

Collection Date: 6/11/2008 9:56:00 AM

Date Received: 6/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual I	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			ALLEY & Sec	THE WE	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	n	ng/Kg	1	6/16/2008 9:52:10 PM
Motor Oil Range Organics (MRO)	ND	50	n	ng/Kg	1	6/16/2008 9:52:10 PM
Surr: DNOP	72.0	61.7-135	9	6REC	1	6/16/2008 9:52:10 PM
EPA METHOD 8015B: GASOLINE RANG	GE .					Analyst: NSB
Gasoline Range Organics (GRO)	ND ND	5.0	n	ng/Kg	1	6/19/2008 1:38:47 PM
Surr: BFB	93.0	84-138	9	6REC	1	6/19/2008 1:38:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050	n	ng/Kg	1	6/19/2008 1:38:47 PM
Toluene	ND	0.050	n	ng/Kg	1	6/19/2008 1:38:47 PM
Ethylbenzene	ND	0.050	m	ng/Kg	1	6/19/2008 1:38:47 PM
Xylenes, Total	ND	0.10	m	ng/Kg	1	6/19/2008 1:38:47 PM
Surr: 4-Bromofluorobenzene	93.6	81.4-117	%	&REC	1	6/19/2008 1:38:47 PM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	79	1.5	m	ng/Kg	5	6/19/2008 6:29:15 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value above quantitation range E
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 2 of 5

Animas Environmental Services

Lab Order: 0806203

CLIENT:

Project: CDX 147-6

Lab ID: 0806203-03

Date: 23-Jun-08

Client Sample ID: SS-3

Collection Date: 6/11/2008 10:06:00 AM

Date Received: 6/13/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		THE RESERVE	LEASE .	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/18/2008 3:11:37 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/18/2008 3:11:37 AM
Surr: DNOP	65.6	61.7-135	%REC	1	6/18/2008 3:11:37 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/19/2008 2:08:51 PM
Surr: BFB	86.5	84-138	%REC	1	6/19/2008 2:08:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	6/19/2008 2:08:51 PM
Toluene	ND	0.050	mg/Kg	1	6/19/2008 2:08:51 PM
Ethylbenzene	ND	0.050	mg/Kg	1	6/19/2008 2:08:51 PM
Xylenes, Total	ND	0.10	mg/Kg	1	6/19/2008 2:08:51 PM
Surr: 4-Bromofluorobenzene	85.6	81.4-117	%REC	1	6/19/2008 2:08:51 PM
EPA METHOD 9056A: ANIONS					Analyst: SLB
Chloride	97	1.5	mg/Kg	5	6/19/2008 7:21:28 PM

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

Date: 23-Jun-08

CLIENT:

Animas Environmental Services

Lab Order:

0806203

Project:

CDX 147-6

Lab ID:

0806203-04

Client Sample ID: SS-4

Collection Date: 6/11/2008 10:57:00 AM

Date Received: 6/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		1 10011	S. Page	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/16/2008 11:01:33 PM
Motor Oil Range Organics (MRO)	- ND	50	mg/Kg	1	6/16/2008 11:01:33 PM
Surr: DNOP	77.7	61.7-135	%REC	1	6/16/2008 11:01:33 PM
EPA METHOD 8015B: GASOLINE RA	NGE	170			Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/19/2008 2:39:02 PM
Surr: BFB	98.5	84-138	%REC	1	6/19/2008 2:39:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	6/19/2008 2:39:02 PM
Toluene	ND	0.050	mg/Kg	1	6/19/2008 2:39:02 PM
Ethylbenzene	ND	0.050	mg/Kg	1	6/19/2008 2:39:02 PM
Xylenes, Total	ND	0.10	mg/Kg	1	6/19/2008 2:39:02 PM
Surr: 4-Bromofluorobenzene	99.8	81.4-117	%REC	1	6/19/2008 2:39:02 PM
EPA METHOD 9056A: ANIONS					Analyst: SLB
Chloride	45	1.5	mg/Kg	5	6/19/2008 7:38:53 PM

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

Date: 23-Jun-08

CLIENT:

Animas Environmental Services

Lab Order:

0806203

Project:

CDX 147-6

Lab ID:

0806203-05

Client Sample ID: SS-5

Collection Date: 6/11/2008 11:35:00 AM

Date Received: 6/13/2008

Matrix: MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/16/2008 11:36:12 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/16/2008 11:36:12 PM
Surr: DNOP	75.1	61.7-135	%REC	1	6/16/2008 11:36:12 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/19/2008 3:09:09 PM
Surr: BFB	92.9	84-138	%REC	1	6/19/2008 3:09:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	6/19/2008 3:09:09 PM
Toluene	ND	0.050	mg/Kg	1	6/19/2008 3:09:09 PM
Ethylbenzene	ND	0.050	mg/Kg	1	6/19/2008 3:09:09 PM
Xylenes, Total	ND	0.10	mg/Kg	1	6/19/2008 3:09:09 PM
Surr: 4-Bromofluorobenzene	92.9	81.4-117	%REC	1	6/19/2008 3:09:09 PM
EPA METHOD 9056A: ANIONS					Analyst: SLB
Chloride	250	1.5	mg/Kg	5	6/19/2008 7:56:18 PM

Qualifiers:

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

Page 5 of 5

Date: 23-Jun-08

# **QA/QC SUMMARY REPORT**

Client:

Animas Environmental Services

Project:

CDX 147-6

Work Order:

0806203

	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RF	PDLimit Qual
Method: EPA Method 9056A: A	nions					THE STATE OF		
Sample ID: MB-16221		MBLK			Batch	ID: 16221	Analysis Date:	6/16/2008 10:53:20 PM
Chloride	ND	mg/Kg	0.30					
Sample ID: LCS-16221		LCS			Batch	ID: 16221	Analysis Date:	6/16/2008 11:10:45 PM
Chloride	14.86	mg/Kg	0.30	99.1	90	110		
Method: EPA Method 8015B: D	iesel Range	Organics						
Sample ID: MB-16211		MBLK			Batch	ID: 16211	Analysis Date:	6/16/2008 2:56:17 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10					
Motor Oil Range Organics (MRO)	ND	mg/Kg	50					
Sample ID: LCS-16211		LCS			Batch	ID: 16211	Analysis Date:	6/16/2008 3:31:15 PM
Diesel Range Organics (DRO)	35.05	mg/Kg	10	70.1	64.6	116		
Sample ID: LCSD-16211		LCSD			Batch	ID: 16211	Analysis Date:	6/16/2008 4:05:58 PM
Diesel Range Organics (DRO)	35.34	mg/Kg	10	70.7	64.6	116	0.827 1	7.4
Method: EPA Method 8015B: G	asoline Ran	ne						
metriod. Li A metriod bolob. C	asomic run	•						The state of the s
Sample ID: MB-16224		MBLK			Batch	D: 16224	Analysis Date:	6/19/2008 10:41:04 PM
	ND		5.0		Batch	ID: 16224	Analysis Date:	6/19/2008 10:41:04 PM
Sample ID: MB-16224 Gasoline Range Organics (GRO) Sample ID: LCS-16224	ND	MBLK mg/Kg LCS	5.0		Batch		Analysis Date:	
Gasoline Range Organics (GRO) Sample ID: LCS-16224	ND 26.72	mg/Kg	5.0	96.8				6/19/2008 10:41:04 PM 6/19/2008 8:10:34 PM
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO)	26.72	mg/Kg		96.8	Batch	D: 16224		
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO) Method: EPA Method 8021B: V	26.72	mg/Kg		96.8	Batch	ID: <b>16224</b> 120		6/19/2008 8:10:34 PN
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO) Method: EPA Method 8021B: V Sample ID: MB-16224	26.72	mg/Kg LCS mg/Kg		96.8	Batch 69.5	ID: <b>16224</b> 120	Analysis Date:	6/19/2008 8:10:34 PN
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO) Method: EPA Method 8021B: V Sample ID: MB-16224 Benzene	26.72 olatiles	mg/Kg LCS mg/Kg	5.0	96.8	Batch 69.5	ID: <b>16224</b> 120	Analysis Date:	6/19/2008 8:10:34 PN
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO) Method: EPA Method 8021B: V Sample ID: MB-16224 Benzene Toluene	26.72 'olatiles	mg/Kg LCS mg/Kg  MBLK mg/Kg	5.0 0.050	96.8	Batch 69.5	ID: <b>16224</b> 120	Analysis Date:	6/19/2008 8:10:34 PN
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO) Method: EPA Method 8021B: V Sample ID: MB-16224 Benzene Foluene Ethylbenzene	26.72 Volatiles	mg/Kg LCS mg/Kg MBLK mg/Kg mg/Kg	0.050 0.050	96.8	Batch 69.5	ID: <b>16224</b> 120	Analysis Date:	6/19/2008 8:10:34 PN
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO) Method: EPA Method 8021B: V Sample ID: MB-16224 Benzene Toluene Ethylbenzene Kylenes, Total	26.72 Colatiles ND ND ND ND	mg/Kg LCS mg/Kg  MBLK mg/Kg mg/Kg mg/Kg	0.050 0.050 0.050 0.050	96.8	Batch 69.5	D: <b>16224</b> 120 D: <b>16224</b>	Analysis Date:	6/19/2008 8:10:34 PN 6/19/2008 10:41:04 PN
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO) Method: EPA Method 8021B: V Sample ID: MB-16224 Genzene Foluene Ethylbenzene Kylenes, Total Sample ID: LCS-16224	26.72 Colatiles ND ND ND ND	mg/Kg LCS mg/Kg MBLK mg/Kg mg/Kg mg/Kg	0.050 0.050 0.050 0.050	96.8	Batch 69.5 Batch	D: <b>16224</b> 120 D: <b>16224</b>	Analysis Date:	6/19/2008 8:10:34 PN 6/19/2008 10:41:04 PN
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO) Method: EPA Method 8021B: V Sample ID: MB-16224 Benzene Toluene Ethylbenzene Kylenes, Total Sample ID: LCS-16224 Benzene	26.72 Volatiles  ND ND ND ND ND ND	mg/Kg LCS mg/Kg MBLK mg/Kg mg/Kg mg/Kg mg/Kg	0.050 0.050 0.050 0.050 0.10		Batch Batch I	D: <b>16224</b> 120 D: <b>16224</b> D: <b>16224</b>	Analysis Date:	6/19/2008 8:10:34 PM 6/19/2008 10:41:04 PM
Gasoline Range Organics (GRO) Sample ID: LCS-16224 Gasoline Range Organics (GRO)	26.72 Volatiles  ND ND ND ND ND ND ND ND	mg/Kg LCS mg/Kg MBLK mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	0.050 0.050 0.050 0.10	110	Batch Batch Batch I	D: <b>16224</b> 120 D: <b>16224</b> D: <b>16224</b> 132	Analysis Date:	

#### Qualifiers:

R RPD outside accepted recovery limits

S Spike recovery outside accepted recovery limits

E Value above quantitation range

Analyte detected below quantitation limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

### Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL				Date Receive	ed:	6/13/2008	
Work Order Number 0806203  Checklist completed by:	honu'-	(	June		y: ARS labels checked by:	Initials	
Matrix:	Carrier name	Gre	yhound				
Shipping container/cooler in good condition?		Yes	V	No 🗆	Not Present		
Custody seals intact on shipping container/con	oler?	Yes	<b>V</b>	No 🗆	Not Present	Not Shipped	
Custody seals intact on sample bottles?		Yes		No 🗆	N/A		
Chain of custody present?		Yes	<b>✓</b>	No 🗆			
Chain of custody signed when relinquished an	d received?	Yes	~	No 🗆			
Chain of custody agrees with sample labels?		Yes	<b>V</b>	No 🗆			
Samples in proper container/bottle?		Yes	V	No 🗆			
Sample containers intact?		Yes	V	No 🗆			
Sufficient sample volume for indicated test?		Yes	V	No 🗆			
All samples received within holding time?		Yes	V	No 🗆			
Water - VOA vials have zero headspace?	No VOA vials subr	mitted	V	Yes 🗆	No 🗆		
Water - Preservation labels on bottle and cap i	natch?	Yes		No 🗆	N/A 🗹		
Water - pH acceptable upon receipt?		Yes		No 🗆	N/A ☑		
Container/Temp Blank temperature?			4°	<6° C Acceptab	le		
COMMENTS:				If given sufficien	t time to cool.		
Client contacted	Date contacted:			Pers	on contacted		==
		- 17				15.00	
Contacted by:	Regarding:	7 77					_
Comments:							
Corrective Action							
	A Majalanta ya Kasa					The state of the s	EVIII.

Ch	ain-of-	-Custody Record	Turn-Around	Time:														
Client:	imas i	Environmental	Standard														ITA FOF	
5	ruices		Project Name	<b>)</b> :			ı.			w.hal								
Address:	624 E	. Comanche St.	CDX	147-	Ce		490	1 Hav	/kins l							109		
Fo	rming!	ton, NM 87401	Project #:						345-3			ax s						
		5704-2280							100	Δ	naly	2001/3000			The state of the state of	N.	Ta	
		324-2022	Project Mana	ger:			( <u>Ş</u>	(se			FIE	(4)						
	ard	□ Level 4 (Full Validation)	loss	> Kenne	mer	H\$ (8021)	H (Gas or	(Gas/Dies				2,PO4,SC	32 PCB's					
□ EDD (	Type)		Sampler: On Ice:	Chad D	awson No	制	TP	5B	4.1	(09	Î	S,	808					Î
	7,1-7		M. CHARLES AND	perature: 4			3E+	8 3	d 50	d 82	r P	N,	des		VOV	57		\Z
Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0804 203	BTEX ***	BTEX + MTBE + TPH (Gas only)	TPH Method	EDB (Method 504.1)	EDC (Metho	8310 (PNA	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chlorides		Air Bubbles (Y or N)
5-11-08	945	55-1	Emeth Kit		1	X	1	<b>x</b>					~			X		
Q-11-68	956	55-2		)	٥	X		X								X		eg er
0-11-08	1006	55-3			3	X		X								X		
0-11-08	1057	55-4			ц	X		1								X		HE
6-11-08	1135	55-5		)	5	X		X					-			*		
		Sella Alline I no																
198	IL A																	
Date: -11- 68 Date:	Time:	Relinquished by:		Received by:	DOJ	Rem	arks:		1							12		
112/08	Time: 1630	Relinquished by:  Sandla R. Lugh  es submitted to Hall Environmental may be see	00	Redeived bly	9:25 6/13/0	8												

Monitor Well No: TH-2  624 E. Comanche, Farmington NM 87401  Tel. (505) 564-2281 Fax (505) 324-2022  Project: Site Assessment of Pit Spill Site: CDX Tic 147-cot will bounded  Sampler Reference  Sampling Method: Disp. Railun Sampling Method: Disp. Railun Sampling Method: Disp. Railun Site Elevation (ff): Cdx Tic 143-5  Depth to Water (ff): 20.43  Temp Conductivity DO ORP PURGED VOLUME  (deg C) (15) (mS) (mg/L) pH (mV) (gallons) Notes/Observations  1435 12.39 1.24 8.02 81.4 .25 call 11.86 1.22 8.02 37.5 1 call 11.86 1.22 8.03 -1.5 1 call 11.91 1.23 8.03 -1.5 1 call 11.91 1.24 8.03 -1.5 1 call 11.91 1.25 (8015)  Chlorides  Disposal of Purged Water: On Scound Surface Chain of Custody Record Complete? (YM) Yes  Analytical Laboratory: Hall Albertan and Park.  Other Notes/Comments	Water Sa	ampling R	Record		No.	Anim	as Environmenta	al Services
Tel. (505) 564-2281 Fax (505) 324-2022  Project: Site Assessment of Pit Spill  CDX Tir 147-006 well broadien  Sampler: Reference  Sampler: Reference  Company Method: Disp. Bailon  Depth of Well (ft): Do Site Elevation (ft): Gets Site Elevation (ft): Ge	Monitor W	ell No: T	4-2			624 E.	Comanche, Farmingtor	NM 87401
Project: Site: CDX Is 147-00 to will borolise Site: CDX Is 147-00 to will borolise Time: 147-5 Meather: Color 107-5 Meather: Color 107-							Control of the contro	
Site: CDX Sic 143-006 will bounder Constant Sampler: Record of Charles Sampler: Record of Charles Sampling Method: Disp. Realway Sampling Method: Disp. Realway Weather: Record of Charles Sampling Method: Disp. Realway Weather: Record of Charles Sampling Method: Disp. Realway Weather: Record of Charles Sampled For (include Method #): RTEX (802) TPH C-C36 (8015)  Date: \$-3-08	Project:	Site Asse	ssment of Pri	t Spill	_			
Control   Cont	Site:	CDX Tic	147-006 Well	Location	2		Date: 5-7-08	
Analytical Parameters Sampled For (include Method #):    Sampling Method:				India.			Time: 1435	
Depth to Water (ft): 20.43  Temp Conductivity DO ORP PURGED VOLUME  (deg C) (BS) (ms) (mg/L) pH (mV) (gallons) Notes/Observations  1435 12.99 /.24	Sampler:	Rikennen	w.			_ W	eather: Cleur-wind	4
Depth to Water (ft): 20.43  Temp Conductivity DO ORP PURGED VOLUME  (deg C) (BS) (ms) (mg/L) pH (mV) (gallons) Notes/Observations  1435 12.99 /.24			Disp. Bailer		_ AI	r Tempe	rature: & 65°F	· Carlotte Control
Time (deg C) (BS) (mS) (mg/L) pH (mV) (gallons) Notes/Observations  1435 12.99 1.24					Site	Elevati	on (ft): 6439 (60	12
Time (deg C) (mS) (mg/L) pH (mV) (gallons) Notes/Observations  1435 12,99 1,24	Dopair to 1			DO				1)
Analytical Parameters Sampled For (include Method #): BTEX (8021). TPH C-C36 (8015)  Chlorides  Disposal of Purged Water: ON ground Surface  Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory: Hall Albertan gue, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling Hase, YSI Water Quality Method.	Time				рН			Notes/Observations
Analytical Parameters Sampled For (include Method #): BTEX (8021). TPH Co-Color (8015)  Chlorides  Disposal of Purged Water: On ground Surface  Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory: Hall Albuque gue, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling tuse, YSI Water Quality Metric.	1435			1			The state of the s	TO BE WANTED
Analytical Parameters Sampled For (include Method #): BTEX (8021) TPH C-C36 (8015)  Chlorides  Disposal of Purged Water: On grand Surface  Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory: Hall Albuques gue, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling  Have, YST Water Quality Method.								
Analytical Parameters Sampled For (include Method #):  Disposal of Purged Water:  Chain of Custody Record Complete? (Y/N)  Yes  Analytical Laboratory:  Hall Albuquer give, NM  Equipment Used During Sampling: Water level Disposable bailer Slow release Sampling tuse, YSI Water Quality Metro.	Fair L	AND DESCRIPTION OF STREET	HEROTOPIC POPULATION					
Analytical Parameters Sampled For (include Method #): BTEX (8021). TPH Cy-C36 (8015)  Chlorides  Disposal of Purged Water: On ground Surface Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory: Hall Albuquer gue, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling  + was, YSI water Quality Method.		11.91	1.23		8.03	-1.5		West House
Analytical Parameters Sampled For (include Method #): BTEX (8021). TPH C C36 (8015)  Chlorides  Disposal of Purged Water: On ground Surface  Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory: Hall Albuquer gue, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling  + wase, YSI water quality meter.	1500	-			-	-		Samples Collected
Analytical Parameters Sampled For (include Method #): BTEX (8021), TPH C G. (8015)  Chlorides  Disposal of Purged Water: On ground Surface  Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory: Hall Albuque gre, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling  twoe, YSI Water Quality Methor.								
Analytical Parameters Sampled For (include Method #): BTEX (8021), TPH Cy-C36 (8015)  Chlorides  Disposal of Purged Water: On ground Surface  Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory:   Hall Albuque gue, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling  tuse, YSI Water Quality Methor.					18 - 14	141116	275 calles	
Analytical Parameters Sampled For (include Method #): BTEX (8021), TPH C G. (8015)  Chlorides  Disposal of Purged Water: On ground Surface  Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory: Hall Albuque gre, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling  twoe, YSI Water Quality Methor.			THE REAL PROPERTY.		-		Bured	
Disposal of Purged Water: On ground Surface Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Ital Albuquer gue, NM Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling tuse, YSI water quality meter.							1	
Disposal of Purged Water: On ground Surface Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Ital Albuquer gue, NM Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling tuse, YSI water quality meter.								
Disposal of Purged Water: On ground Surface Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Ital Albuquer gue, NM Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling tuse, YSI water quality meter.								
Disposal of Purged Water: On ground Surface Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Ital Albuquer gue, NM Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling tuse, YSI water quality meter.								
Chain of Custody Record Complete? (Y/N) Yes  Analytical Laboratory:   Hall Albuquer gue, NM  Equipment Used During Sampling: Water level Disposale bailer Slow release Sampling  tuse, YSI water quality meter.	Analytical	Parameters	Sampled For (i	nclude Me	ethod #):	BTE	X (8021); TPH	C- C36 (8015)
Equipment Used During Sampling: Water Tevel Disposable bailer Slow release Sampling tube, YSI water quality meter.				3		<u>e</u>		
Equipment Used During Sampling: Water Tevel Disposale bailer Slow release Sampling tuse, YSI water quality meter.	Analytical	Laboratory:	Hall	Albu	aver 6	ne. N	m	
tube, YSI Water quality meter.	Equipment	Used Durin			0	,	whe bailer slow	release Samplini
	Other Note	s/Comment				patin C	Inality meter.	
						7277		
			Hitter -					
		No. 121		_	+			

Water S	ampling F	Record		HALL	Anim	as Environment	tal Services			
Monitor V	Vell No: ~	TH-3			624 E.	Comanche, Farmingto	on NM 87401			
7 - Z						Tel. (505) 564-2281 Fax (505) 324-2022				
Project:	Sile Ass	esement of Pi	t Spill		Proje	ect No.:				
Site:	CDX Zic	147-006 Well				Date: 5-7-08				
Location:			Listant		Time: 1508					
Sampler:		mer.			W	eather: Clear-wind	Ly PERSONAL PROPERTY.			
Sampling		Disp. Bailer	M) ( -E II	_ A	ir Tempe	rature: R 65°F				
Depth of		~ 25'				n. (in.): a"	N. \			
Depth to	Water (ft):	21.73'		Sit		on (ft): 6439 CG				
Time	Temp (deg C)	Conductivity	DO (mg/L)	рН	ORP (mV)	PURGED VOLUME (gallons)	Notes/Observations			
1508	13.34	1,27	/	7.68			- Notes observations			
	13.11	1,29		7.30	84.7	. 25 gal				
	12.67	1.68		7.27	87.8	1 501				
	12.60	1.72	1	7.01	98.0	1 sal				
					-	. 25 gal	Samples Collected			
				W-1414		0				
						2.75 Gallons				
		July 12 The Park				pwged				
			REGI				Line to the many to the			
Analytical	Parameters	Sampled For (in	nclude Me	ethod #):	BTEX	(8021) TPH	C-C36 (805)			
					Ch	lorides				
	-									
Diomessi	£ D	otom A	1	, (	S 40					
	f Purged Wa	ord Complete?		Vic	6	A SEPTEMBER OF THE				
AT THE REST NAME OF STREET	Laboratory:		/bugue	162	MIN					
			share	I LI	10-1	Na hailas de	place C. Is			
- quipinon	1 1 31 7 4	tu	Se; 457	t water	- Qualit	She bailer, slow	TERESE SAMPLING			
Other Note	s/Comment		,			7 7 7 55				
			Variation of the			A. Wassing.				
			1,41,11				Carlotte State			
							Land Land			
7 -31/2										

Water Sa	ampling F	Record	+ 10	Y ICH	Anima	as Environment	al Services				
	ell No:	792			624 E. C	Comanche, Farmingto	n NM 87401				
					Tel. (505) 564-2281 Fax (505) 324-2022						
Project:	Site Asses	is ment of Pit	Spill		Projec	ct No.:					
Site:	CDX Jic	ssment of Pit	ell hocat	ion		Date: 5-7-08					
Location:				Time: /546							
Sampler:	R. Kenner	ner .			Weather: Clear-windy Air Temperature: ≈ 65°F						
Sampling		Disp. Bailer		- AI	r Temper	rature: ≈ 65°F n. (in.): 2"					
Depth of V Depth to V		21.851	1				PS)				
Deptil to v		Conductivity DO		Site Elevation (ft): (6439 (GPS)  ORP PURGED VOLUME							
Time	Temp (deg C)	(#S) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations				
1546	13.50	23.06	1	7.94	-95.8	. 25 gal					
75.10	13,28	23.09	1	8.05	-/18.5	. 25 gal	N DECOMBINED				
	13.16	23.68		8.15	-86.9						
	13.16	25,00		0.13	-00.1	. 25 Gal	( ) ) /				
						· 25 gal	Samples Collected				
						1.75 Gallons					
						Purged Low Yield Well					
						U. 18 (21)					
		TAKE THE PARTY		Date:	The second	TICK WELL					
					1111						
				3,00	3 18 19						
			. Leading		N	(8021) TPH C	(1.)				
Analytical	Parameters	Sampled For (in	nclude Me	ethod #):			- (36 (8015)				
					Chlor	ides					
						*0					
Disposal o	f Purged W	ater: On (	owd	Surfac							
4		ord Complete? (		). (		THE PERSON NAMED IN	Land of Charles				
	Laboratory:				1.111						
			4/30gr				4)				
quipment	Used Durir	ng Sampling: (	Dales.	hevel	Dispo	water Qualty	Slow release				
		9	Cildus	Inse	, YSI	Water Quality	metu.				
Other Note	s/Comment	ts	المثاليا			12 - 12 / 6/10					
Well is	ver	low yield	- W	e who	Staired	I Slack and	had				
weath	, , >	gro ( arbon	2060								
War.	7	Crock Soll	00.01			P. C.					

Water S	ampling F	Record	and the same	A A SHI	Anim	as Environmen	tal Services
Monitor V	/ell No: 7	H-5				Comanche, Farmingto	
Project: Site: Location: Sampler: Sampling Depth of V	P.Kennen Method: Vell (ft):	147-006 Well  NA  Well Dry  Well Dry	t Spill boursier	Ai V	Proje We r Tempe Vell Dian	5) 564-2281 Fax (505 ct No.:  Date: 5-7-08 q  Time: 1618 teather: clear-wind rature: \$65°F  1. (in.): 2"  on (ft): 6439 (6P)	5-10-08 1705
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(μS) (mS)	(mg/L)	pН	(mV)	(gallons)	Notes/Observations
			2	<u>∧^1</u>		/1/100	tecl
	n?	751	7-1	PL	D	Corre	
	10						
Analytical	Parameters	Sampled For (i	nclude Met	thod #):	N.	A	
	f Purged W			ν Δ			
	ustody Rec Laboratory:	ord Complete?	(Y/N)	WA		The state of the s	
		ng Sampling:	Water	10	100		
	s/Comment					on 5-7-08. Re	checked well
		at 1705	. 1		-		accumilated
		in Cosing	. Due	to	clay ,	content within	Suturated
	The state of	zone and			. /.	, \	e up to
		a week	to he	nue 5	tandin	water.	

Water Sampling Record					Animas Environmental Services					
					624 F	Comanche Farmington	n NM 87401			
Monitor Well No: TH-6					624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022					
Project:	Site Ass	essment of 1	Pit Spill	Tarrer	Project No.:					
Site:	CDX Zic	147-006 Wel	( hocation	^		Date: 5-7-08 &	5-10-08			
Location:	N 1/					Time: 16.22 &	1706			
Sampler: Sampling	R. Kenn	NA		Δi	Weather: Clew - Winds Air Temperature:					
Depth of V		≈ 25'		V	Vell Diam	i. (in.): 3"				
Depth to V	Vater (ft):	Well Dry				on (ft): 6439 (C)	3)			
	Temp	Conductivity	DO		ORP	PURGED VOLUME				
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations			
MAH	Ren ()		7	1 7	//	011	1			
	10 Lat 17	1	M	7	3 1	6/10	TPD			
	1	5	11.1	1			011			
	MY			_						
	10									
				_						
			10.							
	1									
				100						
Analytical	Parameters	Sampled For (i	nclude Me	thod #):	NA					
					70	The state of the s				
		The state of the								
			4							
	f Purged W			111	-					
		ord Complete?	(Y/N)	NH			A WITH BELLET			
	Laboratory:									
Equipment	Used Duri	ng Sampling:	Water	he	vel					
						0,	1.0			
Other Note	s/Comment	ts Well was	sdago	it 162	ld on	5-7-08. Ked	nected well			
		at 1706	on 3-	10-08	and r	o water had	accurilated			
	<b>HUPLIN</b>	in cusin	c. Due	to	neavy	clas antent	within			
	EW FORES	Saturated	2120	and	Short		mai take			
		10D to	م سرم	ek t	1	111	7.)			
4000	AL DESIGN	7	w(4	-	1110	12 Standing We				

H