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March 5, 2007

DCN: C07-SAI-301726-01-10753

Ms. Kim De Ruyter  
Alaska Department of Environmental Conservation  
Contaminated Sites Program  
610 University Avenue  
Fairbanks, Alaska 99709

**RECEIVED**

MAR 15 2007

**CONTAMINATED  
SITES  
FAIRBANKS**

Re: **Groundwater Sampling Report – Event of July 27, 2006**  
Former Texaco Bulk Fuel Terminal No. 301726  
Fairbanks International Airport  
Fairbanks, Alaska

Dear Ms. De Ruyter:

On behalf of Chevron Environmental Management Company (Chevron), Science Applications International Corporation (SAIC) has prepared this report documenting recent groundwater sampling activities at the above-referenced site (Figure 1).

**SITE LOCATION AND BACKGROUND**

The site is located on the southwestern portion of the Fairbanks International Airport (FIA), west of Airport Industrial Road (Figures 1 and 2). The site was originally designated as Block 10, Lots 5A and 5B. However, the sites were subsequently combined and are now referred to as Block 10, Lot 5A<sup>1</sup>. The site is approximately 150 feet wide along Airport Industrial Road and 300 feet long, and is 44,623 square feet in area (Figures 3 and 4).

The site is currently vacant with no features remaining associated with the previous land uses. A 6-inch diameter, abandoned fuel pipeline crosses through the southeast portion of the site, adjacent to Airport Industrial Road. The former Texaco Bulk Terminal occupied the southeastern portion of the site facing Airport Industrial Road; this portion of the site is now covered with dirt and gravel and is used for truck staging and as an access road for a business located adjacent to the northeast portion of the site. The northwestern portion of the site is primarily unimproved land that is covered with vegetation. Site elevation is approximately 430 feet above mean sea level (msl). The terrain around the site is relatively flat. The Chena River is located approximately 700 feet west of the site, and a tributary of the Tanana River is located approximately 3,500 feet south of the site (Figure 1).

Land use in the site vicinity is mixed industrial and unimproved (vegetation). The nearest residential properties are located approximately 600 feet west of the site (Figure 3). Domestic production wells have been reported at the residential properties. Across Airport Industrial Road

<sup>1</sup> Electronic mail correspondence dated September 14, 2005 from Kristen DuBois, FIA

from the site are commercial businesses, airplane hangers, tarmacs and other facilities associated with airport land uses (Figure 3).

### **Fuel Distribution Facilities**

The former Texaco bulk fuel terminal began operation at the site in July 1969 under a 20-year lease from FIA signed on October 27, 1969 and renewed on April 2, 1975 and March 8, 1976. On May 23, 1979, North Pole Refining (NPR) accepted assignment of the lease's terms and conditions as specified in Lease Agreement ADA-01445. A Bill of Sale, dated January 7, 1979, between Texaco and NPR describes the sale of a warehouse building and three 25,000-gallon above-ground storage tanks (ASTs). On June 14, 1979, Texaco transferred the lease and all rights of use of the property to NPR and the name on the lease agreement was changed. NPR renewed the lease on several occasions, including March 1983. On September 27, 1983, the name listed on the lease agreement changed again to MAPCO Alaska Petroleum, Inc. (MAPCO), reflecting the purchase of NPR by MAPCO. On July 1, 1989, the Lease Agreement between FIA and MAPCO expired and, on September 26, 1989, the file was closed by the FIA leasing office and MAPCO removed the ASTs and structures from the property and relocated them to Block 10, Lots 2 and 3 (Figure 3). There have been no other known occupants on the property since MAPCO left in 1989.

### **Documented Spills and Releases**

Seven documented/reported spills or releases occurred at the Block 10, Lot 5A property. The first reported spill occurred on December 3, 1978 and was reported to Mr. John Janssen of the Alaska Department of Environmental Conservation (ADEC) by Kent M. Herman of NPR on January 6, 1978. According to the spill report completed by NPR, 985 gallons of Jet-A fuel overflowed from an AST while off-loading a tank truck. The spill was reported to have occurred "approximately 2,000 yards south-southwest of the AIA hanger"<sup>2</sup>. Equipment Research Incorporated (ERI) responded to the spill and determined that approximately 1,000 to 1,200 gallons of product had spilled. The fuel had over-filled the ASTs and collected in a lined berm around the tanks. ERI reported that approximately 4 to 5 inches of fuel had accumulated in the berm. ERI indicated that had it not been for an open sump drain within the berm, the spilled fuel would not have reached the ground outside the berm; however, because the sump drain was open, approximately 300 gallons of fuel had drained into the gravel below the berm. ERI notified the ADEC and FIA authorities and began recovery and containment actions. Approximately 600 gallons of fuel was ultimately recovered and approximately 12 cubic yards of contaminated gravel removed. A spill notification report, sent to the Environmental Protection Agency (EPA) by ADEC, lists NPR as the responsible party, indicating that NPR was operating at the property prior to the official sale and lease transfer in January-June 1979. Additional spills have been reported as summarized below:

- December 21, 1978 – 300 gallons of JP-4 was released when a tank truck was overfilled.  
Responsible Party: NPR

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<sup>2</sup> North Pole Refining, December 4, 1978. Oil Spill Report, received by the Department of Environmental Conservation in December 1978.

- March 13, 1979 – 25 to 50 gallons of JP-4 was released during an AST “overflow” which occurred within the diked area; some of the JP-4 soaked into the gravel.  
Responsible Party: NPR
- June 23, 1979 – 30 gallons of diesel was released due to a valve malfunction.  
Responsible Party: none listed, spill reported by NPR.
- June 23, 1979 – 5 gallons of diesel was released; no cause given.  
Responsible Party: none listed, spill reported by NPR.
- July 27, 1979 – 15 gallons of Jet-A (kerosene) fuel was released from a ruptured hose.  
Responsible Party: report un-readable, spill reported by NPR.
- May 20, 1981 – 40 gallons of Jet-A fuel was released due to an automatic shut-off valve malfunction resulting in an overfill of a truck and an overflow to the gravel loading area.  
Responsible Party: AIA truck driver, spill reported by NPR to Alaska State Troopers.

### Previous Investigations

On June 24, 1992, College Utilities Corporation (CUC) encountered strong hydrocarbon odors in soils within the upper six feet of a trench excavation while installing a new water main along Airport Industrial Road adjacent to the site. On June 26, 1992, Alan Braley, FIA Engineer, performed a preliminary assessment along the length of the trench using a photo-ionization detector (PID)<sup>3</sup>. Results from this assessment indicated elevated PID readings from soil samples collected at seven locations along both the east and west side of the trench. PID readings were taken from soil samples collected at one-foot depth intervals between one foot and five feet below grade on the west side of the trench and between one foot and six feet below grade on the east side of the trench. PID readings ranged between 0 parts per million (ppm) and 432 ppm in samples from the west side of the trench and between 0 milligrams per kilogram (mg/kg) and 420 mg/kg in samples from the east side of the trench. Based on the locations of these sample collection points, it appears that the highest PID readings corresponded with locations along the west side of the trench (closest to the property) and near the middle of the property width.

A soil sample collected by FIA from the west trench sidewall near the center of the property width was submitted to Northern Testing Laboratories in Fairbanks, Alaska. This sample was analyzed for gasoline-range hydrocarbons (GRO) by EPA Method 8100 (modified), diesel-range hydrocarbons (DRO) by EPA Method 8015 (modified) and a limited list of volatile hydrocarbons including benzene, toluene, ethylbenzene, total xylenes (BTEX) by EPA Method 8020. This soil sample contained 7,900 mg/kg GRO (as C-6 through C-10), 45,000 mg/kg DRO (as C-10 through C-28) and 57 mg/kg benzene, 360 mg/kg toluene, 74 mg/kg ethylbenzene and 370 mg/kg xylenes. The sample analyzed did not contain chlorobenzene or chlorobenzene isomers at concentrations at or above the 4.0 mg/kg reporting limit.

On August 16 and 17, 2004, soil borings B-1 through B-13 and monitoring wells MW-1 through MW-6 were installed to assess the extent of petroleum hydrocarbons in soil and the shallow water-

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<sup>3</sup> Electronic mail correspondence dated September 14, 2005 from Kristen DuBois, FIA

bearing zone (Figure 5). Analysis of soil samples detected GRO and DRO at concentrations of up to 339 mg/kg and 30,900 mg/kg, respectively, in well boring MW-1 at approximately 4 feet below ground surface (bgs). BTEX constituents were also detected in soil samples collected from B-2 through B-5, B-8, B-11, B-12 and MW-1 at concentrations of up to 16.9 mg/kg benzene, 18.5 mg/kg toluene, 10.6 mg/kg ethylbenzene and 76.5 mg/kg xylenes. Lead was detected in each soil sample, the highest concentration being 10.2 mg/kg in a sample collected from well boring MW-1. A summary of the soil sample analytical results is presented in Table 1. Monitoring wells MW-1 through MW-6 were constructed using 2-inch diameter PVC with 0.020-inch slotted screen from 5 feet to 15 feet bgs. The initial groundwater samples were collected from wells MW-1 through MW-6 on August 19, 2004. TPHg was detected in wells MW-1 and MW-3 at concentrations of 27,200 micrograms per liter (ug/L) and 89.4 ug/L, respectively, and TPHd was detected in wells MW-1 and MW-3 at concentrations of 33,400 ug/L and 1,190 ug/L, respectively. Benzene was detected in wells MW-1, MW-3, MW-4 and MW-6 at concentrations ranging from 0.351 ug/L to 1,770 ug/L. Toluene, ethylbenzene, and xylenes were also detected in wells MW-1 and MW-3. Field procedures and analytical results were presented in SAIC's November 22, 2004 *Site Assessment Report*.

#### **Off-Site Sources**

Nearby properties or features with identified or possible ongoing environmental investigations are summarized below.

#### ***FIA Fuel Hydrant System Pipeline***

A 6-inch diameter fuel pipeline, referred to as the vendor pipeline, runs through the former Texaco bulk terminal site (Figure 5). The vendor pipeline was apparently only used from 1979 until 1983 and the onsite fuel hydrant that is connected to the vendor pipeline was reportedly never used. In 1997, the remaining fuel in the vendor pipeline was gravity drained and in 2004-2005 the pipeline passed a pressure test. A low point in the system that may likely have been vented and used to remove water from the pipeline is located approximately 50 feet to the southwest of the site. There have been no documented releases from the vendor portion of the hydrant system pipeline. NPR/Mapco is the only entity known to have used the vendor pipeline.<sup>4</sup>

#### ***MAPCO Facility, Block 10, Lots 2 and 3***

A search of the ADEC contaminated sites database indicate that numerous petroleum releases have occurred at the MAPCO facility located on Block 10, Lots 2 and 3 (Figures 3 and 4). MAPCO reportedly began operation at this property in 1983.

According to ADEC records, soil and groundwater impacts, including petroleum-based separate-phase hydrocarbons (SPH), are present at the current MAPCO location. Review of preliminary data from the ADEC indicates that there are 20 groundwater-monitoring wells within Lots 2 and 3 and off-site in Dale Road. Numerous aviation fuel releases have occurred at the site, primarily due to over-filled tanks and open valves. SPH at thicknesses of up to 2 feet have been documented in well MW-1, located in the immediate vicinity of the truck loading rack located in the center of Lot

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<sup>4</sup> Electronic mail correspondence dated September 14, 2005 from Kristen DuBois, FIA

3. Currently, ongoing activities include the assessment of petroleum hydrocarbons as SPH in the subsurface.

***5250 Airport Industrial Road, Block 10, Lot 7***

This is the former Mark Air warehouse (former Weaver Brothers warehouse) and is now occupied by Alaska Mechanical, Inc. CUC currently supplies the facility's water. Information provided by the ADEC indicates that four diesel and unleaded gasoline underground storage tanks (USTs) and two waste oil USTs were removed from the site and underlying impacted soil excavated. Hydrocarbon sheen was observed on the groundwater in the excavation cavity and seven groundwater monitoring wells were eventually installed on- and off-site (Figures 3 and 4). A water production well reportedly exists within the property. Available analytical results of groundwater sampling in June 1993 revealed the presence of up to 150 ug/L GRO, 210 ug/L DRO and 52 ug/L benzene in groundwater samples collected from the groundwater monitoring wells.

***Mark Air, Block 1, Lot 6***

The site is currently doing business as Everts Air Fuel. There are documented releases from a former UST at this site.

***Former Unocal Tank Farm, Block 1, Lot 8***

The site is currently doing business as Frontier Flying Service. Information provided by ADEC shows six monitoring wells at the Mark Air properties across Airport Industrial Road from the subject site (Figures 3 and 4). In October 1991, four 10,000-gallon aviation-fuel USTs, two pump stations and associated piping were removed from the site. Approximately 1,200 cubic yards of impacted soil were removed from the site during UST removal. During the September 4, 2003 monitoring event, up to 2.31 feet of SPH was observed on the groundwater table surface in monitoring well GEI-5.

**Hydrogeology**

The subject site is situated on unconsolidated alluvium deposited by the Chena and Tanana Rivers consisting of sand and gravel mixtures. Silt filled swales and oxbows from former stream and river courses are common in the area. The airport and surrounding areas have been graded and there are areas of imported fill and borrow sources. Review of available borings logs generated during this investigation and during installation of groundwater monitoring wells at 5250 Airport Industrial Road, located approximately 200 feet northeast of the subject site, indicates that the area is overlain by gravel fill material to depths of up to 5 feet bgs, underlain by silty sand that becomes generally coarser with depth and grades into a gravelly sand. Groundwater was encountered at approximately seven feet below grade during the August 2004 well installation and the borings were advanced to total depths of approximately 21.5 feet bgs.

The alluvial sediment thickness in the Fairbanks area ranges from 400 feet to 800 feet, based on seismic interpretations (Barnes, 1961). The bedrock under the Fairbanks area is pelitic schist consisting of metamorphosed marine silt deposits. In some areas, the pelitic schist grades to calcium-mica schist referred to as the Birch Creek Schist, marble or quartzite (Pewe, et. al., 1976).

## FIELD PROCEDURES

Groundwater samples were collected from wells MW-1 through MW-6 on July 27, 2006. Prior to purging, the depth to water in each well at the site was measured relative to the top of casing using an electronic depth to groundwater meter. The groundwater table in each well was inspected for the presence of SPH or sheen using a new disposable bailer. The wells were then purged a minimum of three casing volumes. After purging and prior to sampling, groundwater in the well was allowed to recharge to within 80% of the original groundwater level. Groundwater samples were then collected using a new disposable bailer and placed in appropriate EPA-approved containers for storage. Each sample container was then labeled for identification and transported on ice to the laboratory using appropriate chain-of-custody documentation. Well monitoring data sheets are included in Attachment A.

Groundwater samples were analyzed by TestAmerica, an analytical laboratory located in Anchorage, Alaska, for GRO and BTEX by Method AK101, DRO and residual range organics (RRO) by Method AK102/103 and selected volatile organic compounds (VOCs), including BTEX, by EPA Method 8260B. The results of groundwater sample analysis for petroleum hydrocarbons are summarized in Table 2 and the VOC analytical results are summarized in Table 3. The TestAmerica analytical report is presented in Attachment B.

## GROUNDWATER MONITORING RESULTS

### Analytical Results of July 27, 2006 Groundwater Samples

GRO was detected at a concentration of 3,790  $\mu\text{g/L}$  in the sample collected from well MW-1; GRO was not detected at the remaining site wells. DRO was detected in wells MW-1 and MW-3 at concentrations of 1,480  $\mu\text{g/L}$  and 953  $\mu\text{g/L}$ , respectively. RRO was not detected at any of the site wells. Benzene, toluene, ethylbenzene and xylenes were detected at well MW-1 at concentrations of 152  $\mu\text{g/L}$ , 85.8  $\mu\text{g/L}$ , 79.7  $\mu\text{g/L}$  and 347  $\mu\text{g/L}$ , respectively, and a concentration of 1.14  $\mu\text{g/L}$  ethylbenzene was detected in well MW-3. The groundwater analytical results for the July 27, 2006 sampling event are presented in Table 1 and depicted graphically on Figure 7.

Groundwater samples were analyzed for VOCs, which detected several other chemical analytes, including 1,1-dichloroethane, naphthalene, trichlorofluoromethane and trimethylbenzenes. The results of groundwater sample analysis for VOCs are presented in Table 3.

### Comparison of Analytical Results to Cleanup Levels

The maximum concentrations of GRO, DRO and BTEX in groundwater samples collected on July 27, 2006 were compared to ADEC cleanup levels<sup>5</sup>. This comparison is presented below as Table A.

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<sup>5</sup> Alaska Department of Environmental Conservation, 18 ACC 75 – Oil and Other Hazardous Substances Pollution Control, May 26, 2004, Tables B1 and B-2.

**Table A. Maximum Groundwater Concentrations and ADEC Groundwater Cleanup Levels**

Chemical	Maximum Groundwater Concentrations ( $\mu\text{g/L}$ )	Sample Location	ADEC Groundwater Cleanup Level ( $\mu\text{g/L}$ )
GRO ( $\text{C}_6 - \text{C}_{10}$ )	<b>3,790</b>	MW-1	1,300
DRO ( $\text{C}_{10} - \text{C}_{25}$ )	1,480	MW-1	1,500
Benzene	<b>152</b>	MW-1	5
Toluene	85.8	MW-1	1,000
Ethylbenzene	79.7	MW-1	None
Xylenes	347	MW-1	10,000
Lead	Not analyzed	---	15

Note: **Bold** when maximum concentration above ADEC cleanup level.

The only groundwater sample to contain GRO and benzene above the ADEC groundwater cleanup level was collected from well MW-1.

## FINDINGS

### Groundwater Elevation

During the July 27, 2006 groundwater monitoring event, the depth to groundwater in wells MW-1 through MW-6 ranged from 7.21 feet to 7.65 feet below the top of well casings. Groundwater elevations ranged from 419.32 feet to 419.52 feet above msl. A summary of the depth to groundwater and calculated groundwater elevations are presented in Table 1 and are depicted graphically on Figure 6. Compared with the previous monitoring event conducted on September 19, 2005, the groundwater elevations in the monitoring wells have increased an average of 0.74 feet.

### Groundwater Flow Direction and Gradient

The groundwater flow direction, as calculated from the July 27, 2006 groundwater monitoring event, is toward the east at a magnitude of 0.002 (Figure 6). This is consistent with groundwater flow observed during previous monitoring events.

### Concentrations of Petroleum Hydrocarbons in Groundwater

DRO, RRO and benzene concentrations decreased, compared with the concentrations detected during the September 19, 2005 sampling event. GRO concentrations increased at well MW-1 since the September 19, 2005 sampling event, but have decreased in each well since inception of groundwater sampling.

### Extent of Petroleum Hydrocarbons in Groundwater

As shown on Figure 7, the detectable concentrations of dissolved-phase benzene and GRO are currently limited to well MW-1, which is located approximately 10 feet southeast of the FIA fuel pipeline. Detectable concentrations of DRO are limited to wells MW-1 and MW-3. The

concentrations of DRO detected during the July 27, 2006 sampling event are not above the ADEC Groundwater Cleanup Levels.

## CONCLUSIONS

**Local Setting:** The site is located in an industrial area of FIA near various documented off-site fuel releases located in up-gradient, cross-gradient, and down-gradient directions from the site.

**Comparison of Groundwater Concentrations to ADEC Cleanup Levels:** Concentrations of dissolved-phase benzene and GRO above ADEC cleanup levels during the July 27, 2006 sampling event were only detected in the sample collected from well MW-1 (Table 2). Well MW-1 is located approximately 10 feet southeast of the FIA fuel pipeline.

**Groundwater Concentration Trends:** DRO, GRO and BTEX concentrations at well MW-1 have shown a decreasing trend since monitoring began in August 2004 (Table 2).

## CLOSING

Should you have any questions, please call Brady Nagle of SAIC at (408) 356-0200, extension 17.

Sincerely,

## SCIENCE APPLICATIONS INTERNATIONAL CORPORATION



**BRADY NAGLE**  
Senior Project Manager



**JOSEPH MUZZIO**  
Program Manager  
California C.E.G. 1672

Tables:      1 - Historic Soil Analytical Results  
              2 - Groundwater Analytical Results – Petroleum Hydrocarbons  
              3 - Groundwater Analytical Results – Volatile Organic Compounds

Figures:     1 - Site Location Map  
              2 - Fairbanks Airport  
              3 - Aerial Photograph  
              4 - Site Area Detail – Off-Site Environmental Investigations  
              5 - Site Plan  
              6 - Potentiometric Groundwater Elevation Contour Map – July 27, 2006  
              7 - Chemical Concentrations in Groundwater – July 27, 2006

Attachments: A - Well Monitoring Data Sheets  
              B - Laboratory Analytical Reports

cc: Mr. Stacie Hartung-Frerichs, Chevron Products Company, P.O. Box 6012, San Ramon, CA 94583-0804

Ms. Kristen DuBois, Fairbanks International Airport, 6450 Airport Way, Site 1, Fairbanks, AK 99709



Table 1  
Historic Soil Analytical Results



Former Texaco Bulk Fuel Terminal No. 301726  
Fairbanks International Airport, Fairbanks, Alaska

Well/Boring Name	Depth (feet)	Date	TPHg (a)	TPHd (b)	Residual Range		Benzene (c) (mg/kg)	Toluene (c) (mg/kg)	Ethylbenzene (c) (mg/kg)	Xylenes (c) (mg/kg)	Lead (mg/kg)	Dry Weight (d) (Percentage)
			C <sub>6</sub> -C <sub>10</sub> (mg/kg)	C <sub>10</sub> -C <sub>25</sub> (mg/kg)	Organics (b) C <sub>25</sub> -C <sub>36</sub> (mg/kg)							
B-1	4	08/17/04	<1.31	<29.2	<58.3	<0.00654	<0.0131	<0.0131	<0.0196	6.42	73.2	
	8	08/17/04	<1.05	<28.8	<57.7	<0.00526	<0.0105	<b>0.0132</b>	<b>0.0367</b>	<b>3.03</b>	78.2	
B-2	3.5	08/17/04	<1.13	<29.2	<58.4	<0.00563	<0.0113	<0.0113	<0.0203	6.10	79.8	
	6.5	08/17/04	<1.02	<29.2	<58.4	<0.00509	<0.0102	<0.0102	<0.0153	5.25	75.9	
B-3	3.5	08/17/04	<b>18.9</b>	<b>1,570</b>	<57.9	<0.00481	<0.00961	<b>0.0829</b>	<b>0.314</b>	<b>3.71</b>	93.4	
	6.5	08/17/04	<b>2.61</b>	<b>2,430</b>	<56.3	<0.00558	<0.0112	<0.0112	<b>0.03</b>	<b>4.36</b>	77.4	
B-4	3.5	08/17/04	<b>222</b>	<b>1,770</b>	<58.1	<b>4.49</b>	<b>8.34</b>	<b>10.6</b>	<b>22.3</b>	<b>7.44</b>	66.5	
	6.5	08/17/04	<b>12.7</b>	<28.8	<57.6	<b>0.174</b>	<b>0.110</b>	<b>0.171</b>	<b>0.547</b>	<b>3.94</b>	76.0	
B-5	3.5	08/17/04	<1.02	<b>284</b>	<58.4	<b>0.0207</b>	<0.0102	<0.0102	<0.0153	2.86	87.3	
	6.5	08/17/04	<b>5.35</b>	<29.0	<58.0	<0.00576	<0.0115	<0.0115	<0.0173	5.71	77.3	
B-6	6.5	08/17/04	<0.952	<28.1	<56.2	<0.00476	<0.00952	<0.00952	<0.0143	4.71	75.0	
B-7	3.5	08/17/04	<1.03	<29.0	<58.0	<0.00515	<0.0103	<0.0103	<0.0155	3.83	94.6	
	6.5	08/17/04	<1.06	<29.3	<58.6	<0.00530	<0.0106	<0.0106	<0.0159	4.46	82.1	
B-8	6.5	08/17/04	<0.934	<28.9	<57.8	<b>0.00794</b>	<0.00934	<0.00934	<0.0140	6.56	76.0	
B-9	6.5	08/17/04	<1.01	<28.6	<57.2	<0.00507	<0.0101	<0.0101	<0.0152	5.22	75.8	
B-11	5	08/18/04	<b>86.2</b>	<b>2,640</b>	<57.6	<0.0757	<0.151	<b>0.222</b>	<b>15.9</b>	<b>9.09</b>	81.3	
B-12	3.5	08/18/04	<b>330</b>	<b>306</b>	<57.2	<0.218	<b>0.838</b>	<b>3.91</b>	<b>38.0</b>	<b>8.82</b>	74.3	
	6.5	08/18/04	<1.26	<28.1	<56.3	<0.00630	<0.0126	<0.0126	<b>0.110</b>	<b>6.80</b>	69.9	
B-13	5	08/18/04	<1.42	<29.3	<58.7	<0.00709	<0.0142	<0.0142	<0.0213	6.69	79.7	

Table 1  
Historic Soil Analytical Results



Former Texaco Bulk Fuel Terminal No. 301726  
Fairbanks International Airport, Fairbanks, Alaska

Well/Boring Name	Depth (feet)	Date	TPHg (a)	TPHd (b)	Residual Range		Benzene (c) (mg/kg)	Toluene (c) (mg/kg)	Ethylbenzene (c) (mg/kg)	Xylenes (c) (mg/kg)	Lead (mg/kg)	Dry Weight (d) (Percentage)
			C <sub>6</sub> -C <sub>10</sub> (mg/kg)	C <sub>10</sub> -C <sub>25</sub> (mg/kg)	Organics (b) C <sub>25</sub> -C <sub>36</sub> (mg/kg)							
MW-1	4	08/17/04	339	30,900	<5,820	16.9	18.5	9.54	76.5	10.20	80.0	
	8	08/17/04	67.5	1,170	<58.2	0.362	1.18	0.384	9.80	4.68	83.2	
	14.5	08/18/04	222	198	<56.7	0.732	9.82	2.57	31.7	3.47	78.0	
MW-2	3.5	08/17/04	<1.83	<28.8	<57.6	0.0113	<0.0183	<0.0183	<0.0275	5.56	86.5	
	6.5	08/17/04	<1.12	<29.3	<58.6	<0.00558	<0.0112	<0.0112	<0.0167	4.64	77.8	
	14.5	08/18/04	<1.35	<29.2	<58.3	<0.00673	<0.0135	<0.0135	<0.0202	3.00	81.2	
MW-3	6.5	08/17/04	<0.941	<29.1	<58.2	<0.00471	<0.00941	<0.00941	<0.0141	5.98	78.5	
MW-4	6.5	08/18/04	<1.06	<29.0	<58.1	<0.00528	<0.0106	<0.0106	<0.0158	4.26	74.9	
MW-5	6.5	08/18/04	<1.03	<28.2	<56.4	<0.00514	<0.0103	<0.0103	<0.0154	5.38	76.4	
MW-6	3.5	08/18/04	<1.42	<28.5	<56.9	<0.00710	<0.0142	<0.0142	0.0228	6.42	77.1	
	6.5	08/18/04	<1.05	<28.6	<57.2	<0.00523	<0.0105	<0.0105	<0.0157	4.15	81.1	
	14.5	08/18/04	<1.11	<29.2	<58.4	<0.00553	<0.0111	<0.0111	<0.0166	3.34	78.9	
SP-1-Comp	—	08/18/04	23.9	—	—	0.0166	0.0659	0.254	2.22	4.75	—	
ADEC Cleanup Level (e)	—	—	1,400	125,000	220,000	9	180	89	81	400	—	

Abbreviations:

TPHg = Total petroleum hydrocarbons by gasoline.  
 TPHd = Total petroleum hydrocarbons by diesel.  
 mg/kg = milligrams per kilogram  
 <x.xx = Not detected at method detection limit.  
 --- = Not analyzed/applicable

Notes:

- (a) TPHg analyzed by Method AK101.
- (b) TPHd and residual range organics analyzed by Method AK102/RRO.
- (c) Benzene, toluene, ethylbenzene, total xylenes, and analyzed by EPA Method 8260B.
- (d) Dry weight physical parameters analyzed by EPA Methods APHA/ASTM.
- (e) Alaska Department of Environmental Conservation, 18 ACC 75 – Oil and Other Hazardous Substances Pollution Control, May 26, 2004, Tables B1 and B2 for the inhalation pathway in the under 40 inch zone.

**Table 2**  
**Groundwater Analytical Results**  
**Petroleum Hydrocarbons**



Former Texaco Bulk Fuel Terminal No. 301726  
 Fairbanks International Airport, Fairbanks, Alaska

Well/Boring Name	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (msl)	GRO <sup>1</sup> C <sub>6</sub> -C <sub>10</sub> (µg/L)	DRO <sup>2</sup> C <sub>10</sub> -C <sub>25</sub> (µg/L)	RRO <sup>2</sup> C <sub>25</sub> -C <sub>36</sub> (µg/L)	Benzene <sup>3</sup> (µg/L)	Toluene <sup>3</sup> (µg/L)	Ethylbenzene <sup>3</sup> (µg/L)	Xylenes <sup>3</sup> (µg/L)
ADEC Cleanup Level <sup>4</sup>		—	—	—	1,300	1,500	1,100	5	1,000	—	10,000
MW-1	08/19/04	426.84	6.37	420.47	27,200	33,400	<480	1,770	3,790	261	3,750
	03/30/05	426.84	10.09	416.75	9,000	436	<388	729	343	186	936
	09/19/05	426.84	8.12	418.72	<2,500	8,660	<397	153	150	<25	116
	07/27/06	426.84	7.52	419.32	3,790	1,480	<407	151	74.2	74.9	449
MW-2	08/19/04	426.73	6.29	420.44	<50.0	— <sup>5</sup>	— <sup>5</sup>	<0.200	<0.500	<0.500	<1.00
	03/30/05	426.73	9.98	416.75	<50.0	4,040	427	<0.500	<0.500	<0.500	<1.50
	09/19/05	426.73	8.02	418.71	<50.0	<417	<417	<0.500	<0.500	<0.500	<1.50
	07/27/06	426.73	7.21	419.52	<50.0	<397	<397	<0.500	<0.500	<0.500	<1.50
MW-3	08/19/04	427.16	6.73	420.43	89.4	1,190	<480	0.774	<0.500	5.83	3.18
	03/30/05	427.16	10.42	416.74	181	<391	<391	0.979	<0.500	24.1	6.94
	09/19/05	427.16	8.47	418.69	<50.0	6,730	2,120	0.556	<0.500	1.73	<1.50
	07/27/06	427.16	7.65	419.51	<50.0	953	<413	<0.500	<0.500	1.14	<1.50
MW-4	08/19/04	427.02	6.59	420.58	<50.0	<400	<480	0.300	<0.500	<0.500	<1.00
	03/30/05	427.02	10.29	416.86	<50.0	<385	<385	<0.500	<0.500	<0.500	<1.50
	09/19/05	427.02	8.34	418.83	<50.0	1,310	815	<0.500	<0.500	<0.500	<1.50
	07/27/06	427.02	7.52	419.50	<50.0	<400	<400	<0.500	<0.500	<0.500	<1.50
MW-5	08/19/04	426.89	6.44	420.53	<50.0	<400	<480	<0.200	<0.500	<0.500	<1.00
	03/30/05	426.89	10.16	416.81	<50.0	3,310	435	<0.500	<0.500	<0.500	<1.50
	09/19/05	426.89	8.19	418.77	<50.0	<417	782	<0.500	<0.500	<0.500	<1.50
	07/27/06	426.89	7.39	419.50	<50.0	<397	<397	<0.500	<0.500	<0.500	<1.50
MW-6	08/19/04	426.82	6.36	420.46	<50.0	<400	<480	0.351	<0.500	<0.500	<1.00
	03/30/05	426.82	10.08	416.74	<50.0	<388	<388	<0.500	<0.500	<0.500	<1.50
	09/19/05	426.82	8.12	418.70	<50.0	<403	<403	<0.500	<0.500	<0.500	<1.50
	07/27/06	426.82	7.31	419.51	<50.0	<403	<403	<0.500	<0.500	<0.500	<1.50

Table 2  
Groundwater Analytical Results  
Petroleum Hydrocarbons



Former Texaco Bulk Fuel Terminal No. 301726  
Fairbanks International Airport, Fairbanks, Alaska

Well/Boring Name	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (msl)	GRO <sup>1</sup> C <sub>6</sub> -C <sub>10</sub> (µg/L)	DRO <sup>2</sup> C <sub>10</sub> -C <sub>25</sub> (µg/L)	RRO <sup>2</sup> C <sub>25</sub> -C <sub>36</sub> (µg/L)	Benzene <sup>3</sup> (µg/L)	Toluene <sup>3</sup> (µg/L)	Ethylbenzene <sup>3</sup> (µg/L)	Xylenes <sup>3</sup> (µg/L)
ADEC Cleanup Level <sup>4</sup>		---	---	---	1,300	1,500	1,100	5	1,000	---	10,000
Purge Water	07/27/06	---	---	---	486	527	<400	17.7	7.29	9.78	53.8
Trip Blank	03/30/05	---	---	---	<50.0	<400	<480	<0.500	<0.500	<0.500	<1.50
	09/19/05	---	---	---	<50.0	---	---	<0.500	<0.500	<0.500	<1.50
	07/27/06	---	---	---	<50.0	---	---	<0.500	<0.500	<0.500	<1.50

**Abbreviations:**

TPHg = Total petroleum hydrocarbons by gasoline.

TPHd = Total petroleum hydrocarbons by diesel.

Cx-Cx = Carbon range.

µg/L = milligrams per kilogram.

<x.xx = Not detected at method detection limit.

--- = Not analyzed/applicable

**Notes:**

- 1 GRO analyzed by Method AK101/EPA 8021B.
- 2 DRO and RRO and residual range organics analyzed by Method AK102/RRO.
- 3 Benzene, toluene, ethylbenzene, total xylenes, and analyzed by EPA Method 8260B.
- 4 Alaska Department of Environmental Conservation, 18 ACC 75 – Oil and Other Hazardous Substances Pollution Control, May 26, 2004, Table C.
- 5 MW-2 was not analyzed for TPHd or residual range organics because there was insufficient sample volume due to breakage during shipping.

Table 3  
Groundwater Analytical Results  
Volatile Organic Compounds



Former Texaco Bulk Fuel Terminal No. 301726  
Fairbanks International Airport, Fairbanks, Alaska

Well/Boring Name	Date	n-BB (µg/L)	sec-BB (µg/L)	tert-BB (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	1,1-DCA (µg/L)	IPB (µg/L)	p-IPT (µg/L)	Naphthalene (µg/L)	n-PB (µg/L)	1,1,1-TCA (µg/L)	TCFM (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)
ADEC Cleanup Level <sup>1</sup>		---	---	---	---	100	3,650	---	---	700	---	---	---	---	---
MW-1	08/19/04	24.2	10.0	2.57	<1.00	<1.00	<1.00	24.7	26.6	205	25.7	<1.00	14.5	445	207
	8/19/04 <sup>2</sup>	<100	<100	<100	<100	<100	<100	<100	<100	483	<100	<100	<100	460	203
	03/30/05	<25.0	<5.00	<5.00	<5.00	<5.00	<5.00	11.2	<10.0	136	8.15	<5.00	<5.00	114	62.6
	09/19/05	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0	81.1	<10.0	<10.0	<10.0	81.1	62.8
	07/27/06	<5.00	2.54	<1.00	<1.00	<1.00	<1.00	8.65	3.60	64.6	7.36	<1.00	2.04	63.7	23.5
MW-2	08/19/04	<1.00	<1.00	<1.00	<1.00	4.90	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	13.2	<1.00	<1.00
	03/30/05	<5.00	<1.00	<1.00	<1.00	1.58	<1.00	<2.00	<2.00	<2.00	<1.00	1.25	19.3	<1.00	<1.00
	09/19/05	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	10.3	<1.00	<1.00
	07/27/06	<5.00	<1.00	<1.00	<1.00	17.2	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	17.8	<1.00	<1.00
MW-3	08/19/04	<1.00	1.06	<1.00	<1.00	4.75	<1.00	5.83	<1.00	23.0	3.00	<1.00	4.84	2.40	10.3
	03/30/05	<5.00	5.23	<1.00	1.26	<1.00	1.75	15.3	5.09	139	11.9	<1.00	2.97	1.47	9.48
	09/19/05	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	36.3	<1.00	<1.00	5.53	<1.00	<1.00
	07/27/06	<5.00	<1.00	<1.00	<1.00	<1.00	1.04	<2.00	<2.00	16.4	<1.00	1.17	2.49	<1.00	<1.00
MW-4	08/19/04	<1.00	<1.00	<1.00	<1.00	<1.00	1.05	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
	03/30/05	<5.00	<1.00	<1.00	<1.00	<1.00	1.53	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	09/19/05	<5.00	<1.00	<1.00	<1.00	<1.00	1.39	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	07/27/06	<5.00	<1.00	<1.00	<1.00	<1.00	1.25	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-5	08/19/04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	5.97	<1.00	<1.00
	03/30/05	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	12.1	<1.00	<1.00
	09/19/05	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	5.17	<1.00	<1.00
	07/27/06	<5.00	<1.00	<1.00	<1.00	<1.00	1.12	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
MW-6	08/19/04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	4.33	<1.00	<1.00
	03/30/05	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	3.3	<1.00	<1.00
	09/19/05	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	07/27/06	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	3.88	<1.00	<1.00

Table 3  
Groundwater Analytical Results  
Volatile Organic Compounds



Former Texaco Bulk Fuel Terminal No. 301726  
Fairbanks International Airport, Fairbanks, Alaska

Well/Boring Name	Date	n-BB (µg/L)	sec-BB (µg/L)	tert-BB (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	1,1-DCA (µg/L)	IPB (µg/L)	p-IPT (µg/L)	Naphthalene (µg/L)	n-PB (µg/L)	1,1,1-TCA (µg/L)	TCFM (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)
ADEC Cleanup Level <sup>1</sup>		---	---	---	---	100	3,650	---	---	700	---	---	---	---	---
Purge Water	07/27/06	<5.00	<1.00	<1.00	<1.00	2.22	<1.00	<2.00	<2.00	8.62	<1.00	<1.00	2.66	1.87	<1.00
Trip Blank	03/30/05	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	09/19/05	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
	07/27/06	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00

**Abbreviations:**

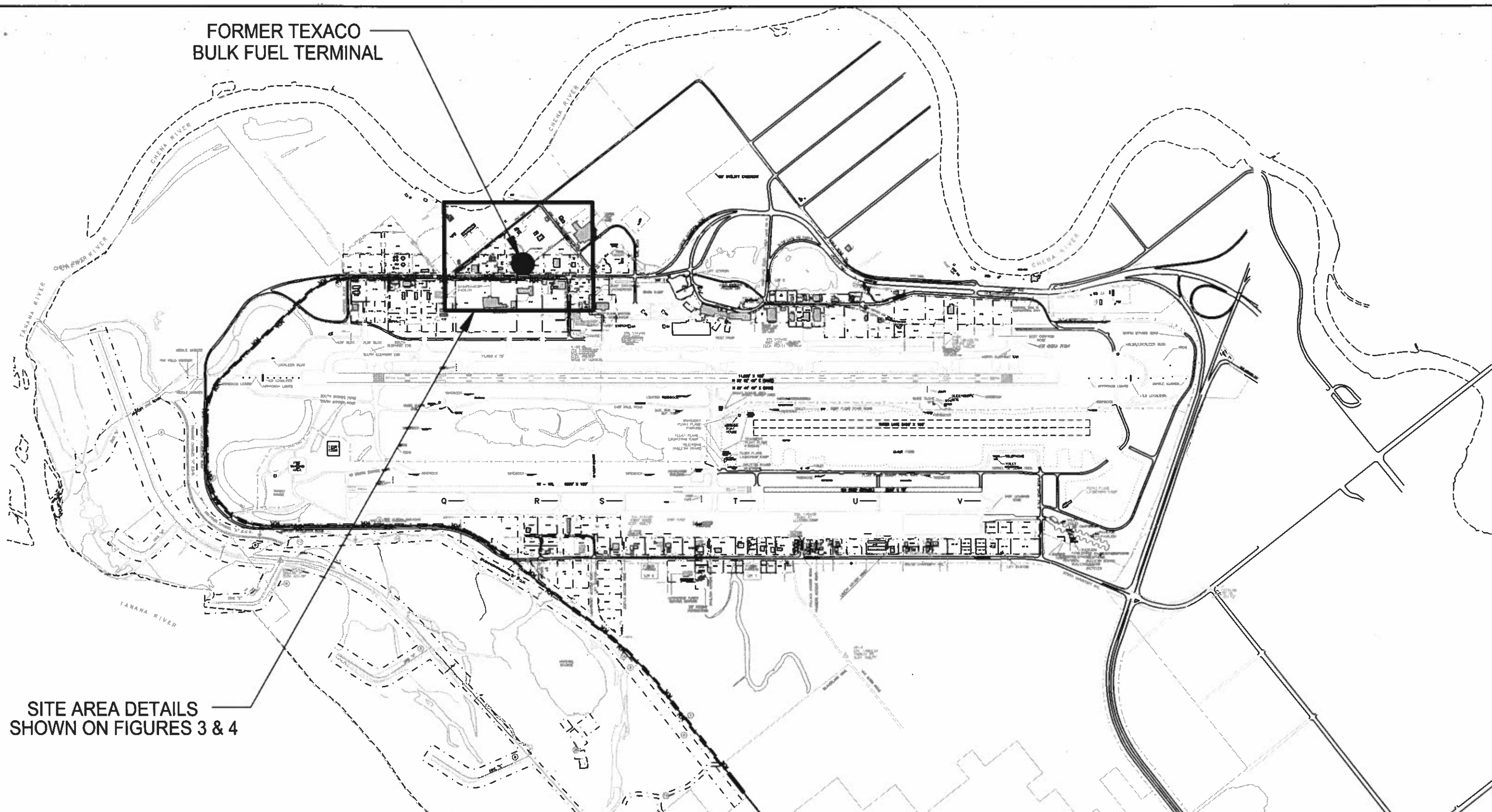
n-BB = n-Butylbenzene  
 sec-BB = sec-Butylbenzene  
 tert-BB = tert-Butylbenzene  
 1,1-DCA = 1,1-Dichloroethane  
 1,1,1-TCA = 1,1,1-Trichloroethane  
 IPB = isopropylbenzene  
 p-IPT = p-Isopropyltoluene  
 n-PB = n-Propylbenzene  
 TCFM = Trichlorofluoromethane  
 1,2,4-TMB = 1,2,4-Trimethylbenzene  
 1,3,5-TMB = 1,3,5-Trimethylbenzene  
 µg/L = milligrams per kilogram.  
 <x.xx = Not detected at method detection limit.  
 --- = Not applicable

**Notes:**

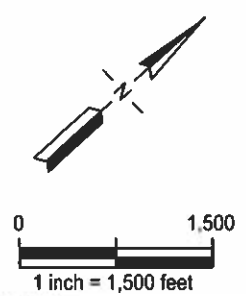
All volatile organic compounds analyzed by EPA Method 8260B  
 1 = Alaska Department of Environmental Conservation, 18 ACC 75 – Oil and Other Hazardous Substances Pollution Control, May 26, 2004, Table C.  
 2 = The reported values for MW-1 exceeded the capacity of the detector and therefore is unreliable. MW-1 was reanalyzed with a higher reporting limit.



**FORMER TEXACO  
BULK FUEL TERMINAL**



**SITE AREA DETAILS  
SHOWN ON FIGURES 3 & 4**



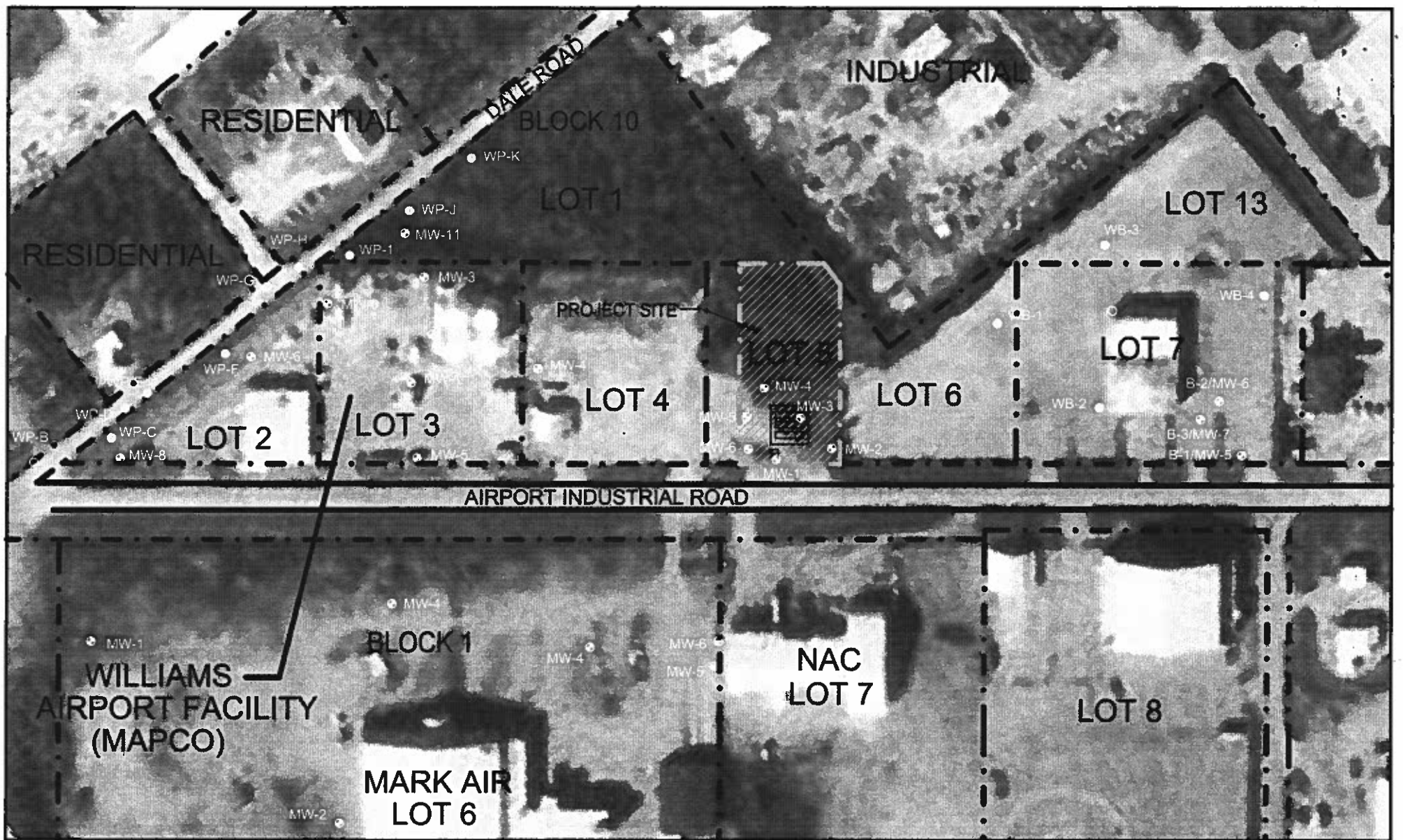
**FAIRBANKS AIRPORT**

**Former Texaco Bulk Fuel Terminal**  
Block 10, Lot 5, Fairbanks International Airport  
Fairbanks, Alaska

Drawn	CTO	Checked	Approved	Figure
Date	5/3/05	Date	Date	<b>2</b>
Job no.	06-6102-00-7147-020			File no.





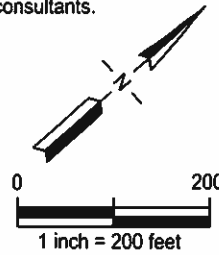


**LEGEND**

**NOTE**

- CHEVRON MONITORING WELL LOCATION AND DESIGNATION
- MONITORING WELL LOCATION AND DESIGNATION
- SOIL BORING LOCATION AND DESIGNATION
- DOMESTIC WELL LOCATION
- PROPERTY BOUNDARY

1. Borings and wells were installed by other consultants.



**AERIAL PHOTOGRAPH**

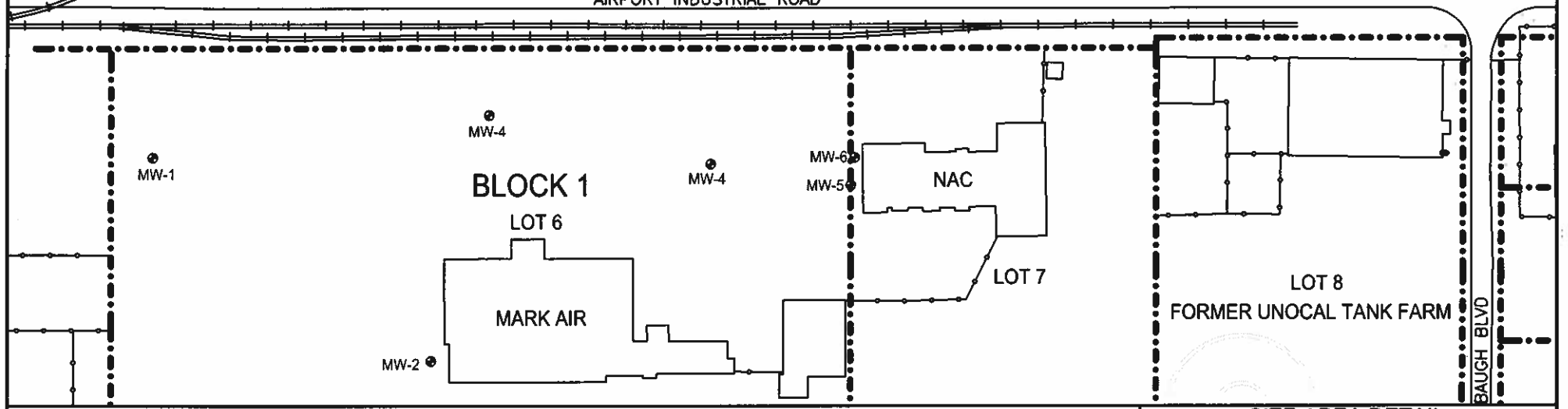
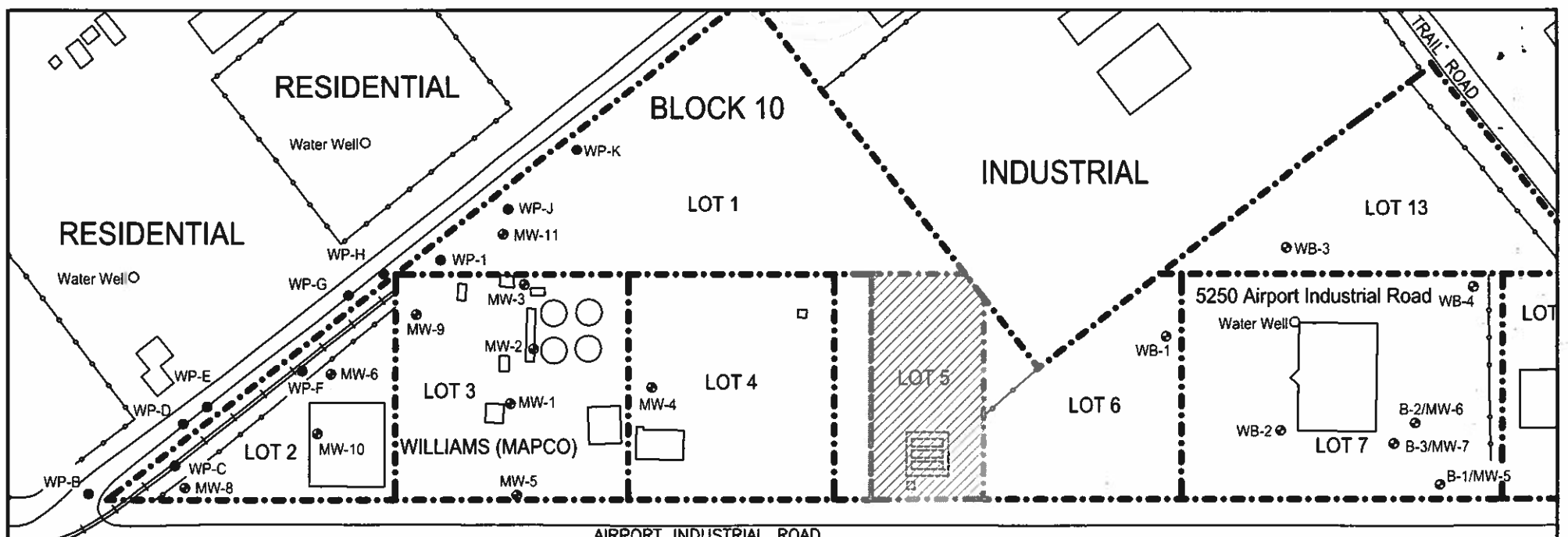
**Former Texaco Bulk Fuel Terminal**  
Block 10, Lot 5, Fairbanks International Airport  
Fairbanks, Alaska

Drawn	CTO	Checked	Approved	Figure
Date	5/3/05	Date	Date	<b>3</b>
Job no.	06-6102-00-7147-020			File no.

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Basemap: Aerial photograph courtesy of USGS. Boring and well data from Shannon and Wilson Inc. Site Plan, November, 2003.

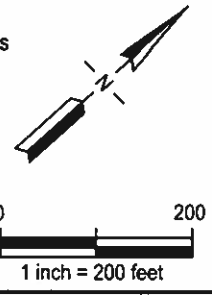


**LEGEND**

**NOTE**

1. Borings and wells were installed by other consultants

- MONITORING WELL LOCATION AND DESIGNATION
- SOIL BORING LOCATION AND DESIGNATION
- PROPERTY BOUNDARY
- FENCELINE
- PROJECT SITE



**SITE AREA DETAIL  
OFF SITE  
ENVIRONMENTAL INVESTIGATIONS**

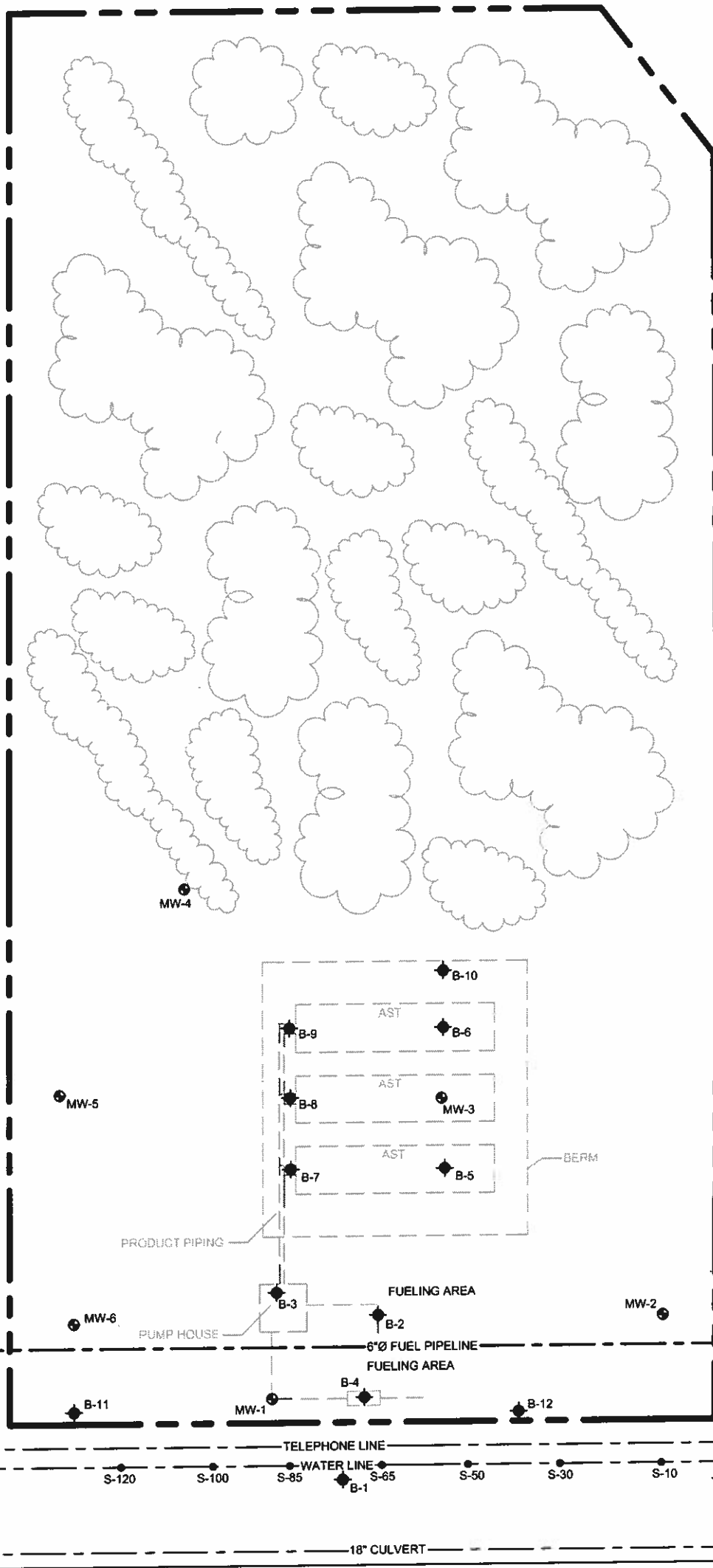
**Former Texaco Bulk Fuel Terminal**  
Block 10, Lot 5, Fairbanks International Airport  
Fairbanks, Alaska

Drawn	CTO	Checked	Approved	Figure
Date	7/7/04	Date	Date	<b>4</b>
Job no.	06-6102-00-4221-284		File no.	

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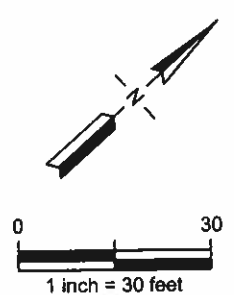
Base map: Aerial photograph courtesy of USGS. Boring and well data from Shannon and Wilson Inc. See Plan, November, 2003.



AIRPORT INDUSTRIAL ROAD

**LEGEND**

- GROUNDWATER MONITORING WELL LOCATION
- SOIL BORING LOCATION
- PID SURVEY LOCATIONS
- AST** ABOVE GROUND STORAGE TANK
- PROPERTY BOUNDARY
- FORMER SITE FEATURES
- TREES AND BRUSH
- RAILROAD



**SITE PLAN**

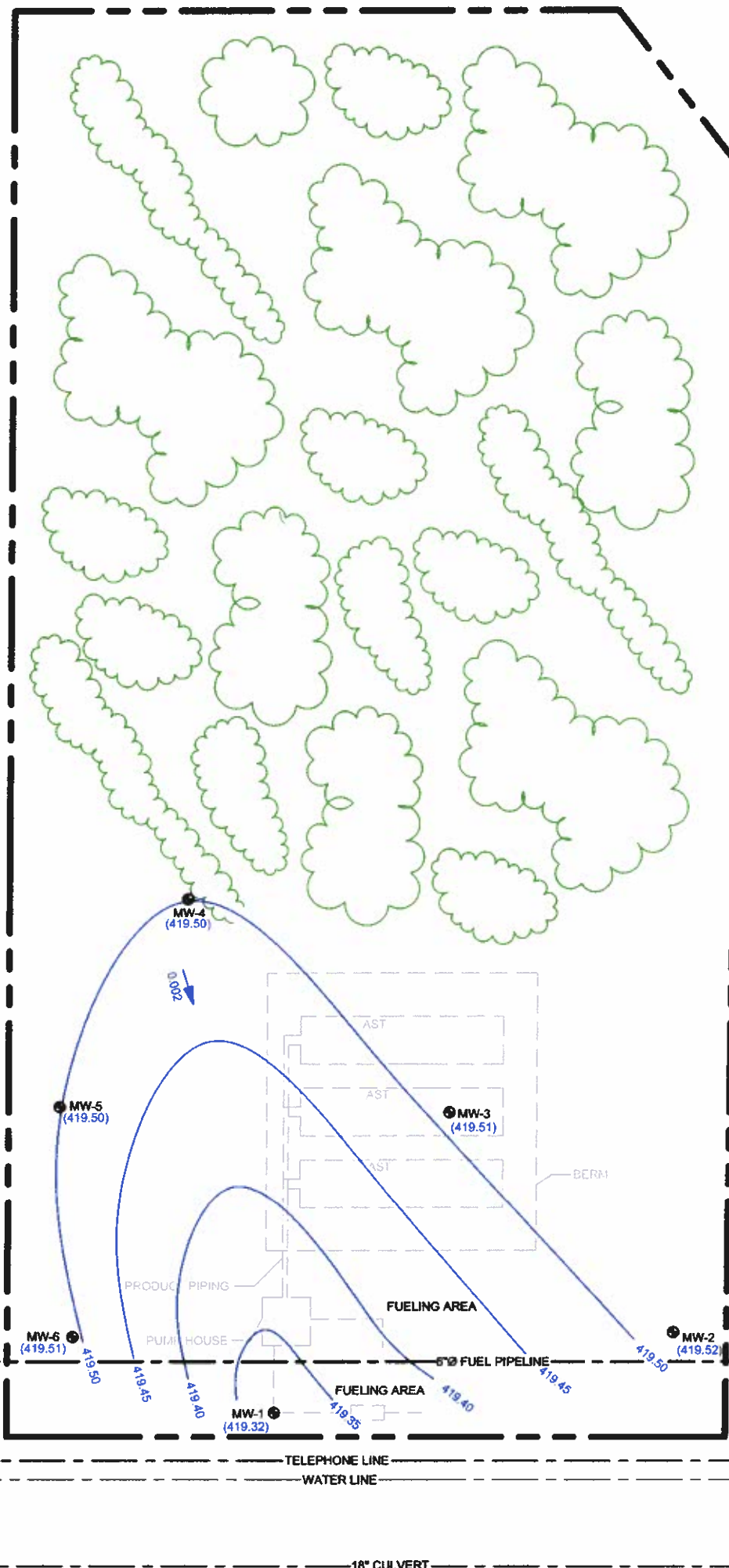
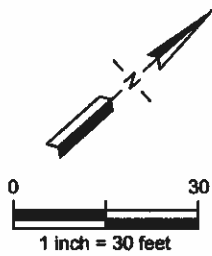
**Former Texaco Bulk Fuel Terminal**  
Block 10, Lot 5, Fairbanks International Airport  
Fairbanks, Alaska

Drawn	CTO	Checked	Approved	Figure
Date	5/3/05	Date	Date	<b>5</b>
Job no.	06-6102-00-7147-020			File no.



N:\C\Road and Terminal\Map-1

Source: Basemap modified from Fuel System Plan provided by Texaco.



AIRPORT INDUSTRIAL ROAD

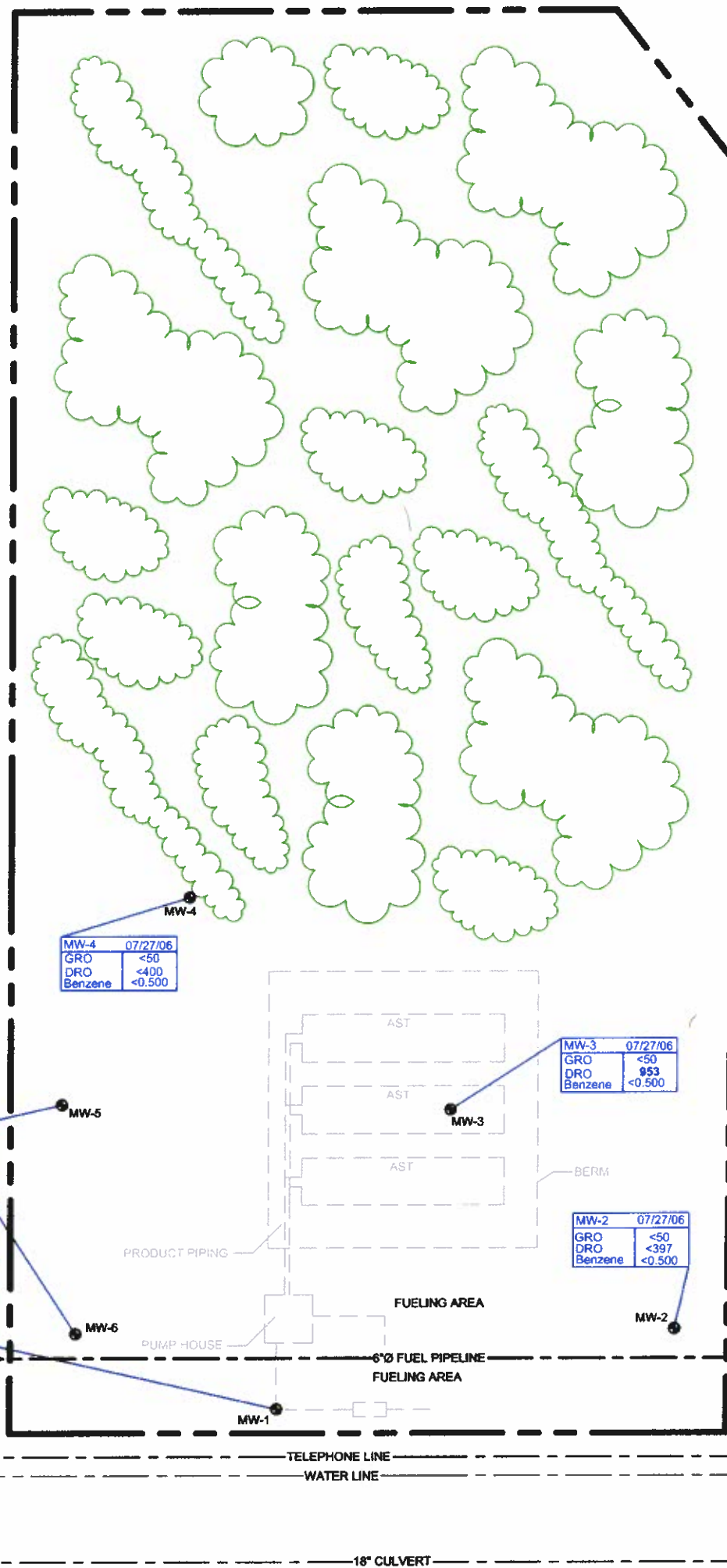
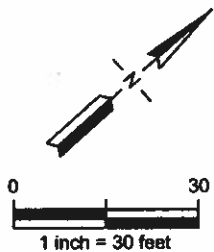
**LEGEND**

- GROUNDWATER MONITORING WELL LOCATION
- AST ABOVE GROUND STORAGE TANK
- PROPERTY BOUNDARY
- FORMER SITE FEATURES
- RAILROAD
- TREES AND BRUSH
- (419.51) GROUNDWATER ELEVATION MEASURED IN FEET RELATIVE TO MEAN SEA LEVEL (MSL)
- 419.50 GROUNDWATER ELEVATION CONTOUR MEASURED IN FEET RELATIVE TO MEAN SEA LEVEL (MSL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION (GRADIENT (I) = 0.002 ft/ft.)

<b>POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP</b>				
July 27, 2006				
<b>Former Texaco Bulk Fuel Terminal</b>				
Block 10, Lot 5, Fairbanks International Airport Fairbanks, Alaska				
Drawn	KLR	Checked	Approved	Figure
Date	09/26/06	Date	Date	<b>6</b>
Job no.	06-6102-00-7147-020		File no.	

G:\Projects\6102\00\Map6 - Terminal 301726 - Fairbanks\06102006 July 2006.dwg

Source: Basemap modified from Fuel System Plan provided by Texaco.



Well ID	Date	GRO	DRO	Benzene
MW-1	07/27/06	3,790	1,480	152
MW-2	07/27/06	<50	<397	<0.500
MW-3	07/27/06	<50	953	<0.500
MW-4	07/27/06	<50	<400	<0.500
MW-5	07/27/06	<50	<397	<0.500
MW-6	07/27/06	<50	<403	<0.500

AIRPORT INDUSTRIAL ROAD

**LEGEND**

- GROUNDWATER MONITORING WELL LOCATION
- ABOVE GROUND STORAGE TANK
- PROPERTY BOUNDARY
- FORMER SITE FEATURES
- RAILROAD

Analyte	Monitoring Well Name and Date	Concentration in micrograms/liter
MW-5	07/27/06	GRO <50
		DRO <400
		Benzene <0.500

DRO = Diesel-Range Organics  
 GRO = Gasoline-Range Organics  
 NA = Not Analyzed

**CHEMICAL CONCENTRATIONS IN GROUNDWATER**  
July 27, 2006

**Former Texaco Bulk Fuel Terminal**  
Block 10, Lot 5, Fairbanks International Airport  
Fairbanks, Alaska

Drawn	KLR	Checked	Approved	<b>7</b>
Date	09/26/06	Date	Date	
Job no.	06-6102-00-7147-020		File no.	

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Source: Basemap modified from Fuel System Plan provided by Texaco.

**ATTACHMENT A**

**WELL MONITORING DATA SHEETS**

---









# FIELD DATA SHEET-GROUNDWATER SAMPLING

## WELL INFORMATION

**Site Information**  
 Block 10 Lot 5, Fairbanks Airport  
 Project Address  
 Fairbanks, Alaska  
 City State  
 MW-2  
 Well/Sample Point ID  
 06-6102-00-8536-071  
 Project Number

**Purge Information**  
**Water Level Equipment**  
 Electronic Indicator  
 Oil Water Interface Probe  
 Other (specify) checked for SPH with bailer

**Purge Equipment**  
 Bailer  
 Disposable  
 Teflon #: \_\_\_\_\_  
 Submersible Pump, type: Purge pump  
 Other (specify) \_\_\_\_\_

Purge Calculation		casing diameter		gallons per linear foot	Purged By:
total depth =	13.30	0.75 in.	<input type="checkbox"/>	0.023	Steve Krcik
depth to water =	7.31	1 in.	<input type="checkbox"/>	0.04	name
linear feet of water =	5.99	2 in.	<input checked="" type="checkbox"/>	0.17	
gallons per linear foot =	0.17	4 in.	<input type="checkbox"/>	0.67	
gallons per casing =	1.02	6 in.	<input type="checkbox"/>	1.5	
number of casings X	3	other	<input type="checkbox"/>	calculate	
calculated purge =	3.05	1 cubic foot = 7.48 gallons			Purged Dry?: no

**Purge Notes:**  
 pH meter not functioning

## WELL SAMPLING DATA

	time (24 HR)	total gallons (purged)	pH (units)	EC (u s @ 25° C)	temp (°C)	color (see below)	turbidity (NTU or see below)	odor (see below)
1	1410	2	---	511	5.8	clear	trace	none
2	1412	4	---	480	5.4	clear	trace	none
3	1414	6	---	493	5.0	clear	trace	none
3								
4								
5								

brown, yellow heavy, moderate strong, moderate  
 cloudy, clear light, trace slight, none

**Groundwater Sampling Information**  
**Sample Type**  
 Monitoring Well  
 Extraction Well  
 Domestic Well  
 Other (specify) \_\_\_\_\_

**Sampling Equipment**  
 Bailer  
 Disposable  
 Teflon #: \_\_\_\_\_  
 Submersible Pump, type: \_\_\_\_\_  
 Sampling Port  
 Other (specify) \_\_\_\_\_

Sample ID	Date	Time (24:00)	Sampled By:
MW-1	7/27/2006	1417	Steve Krcik

name

# of Cont.	Analyses	Container/Size	Preservative	Sampling Notes:

# FIELD DATA SHEET-GROUNDWATER SAMPLING

## WELL INFORMATION

<b>Site Information</b>		
Block 10 Lot 5, Fairbanks Airport <small>Project Address</small>	MW-3 <small>Well/Sample Point ID</small>	06-6102-00-8536-071 <small>Project Number</small>
Fairbanks <small>City</small>	Alaska <small>State</small>	

<b>Purge Information</b>																																										
<b>Water Level Equipment</b> <input checked="" type="checkbox"/> Electronic Indicator <input type="checkbox"/> Oil Water Interface Probe <input type="checkbox"/> Other (specify) _____ checked for SPH with bailer	<b>Purge Equipment</b> <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable <input type="checkbox"/> Teflon #: _____ <input checked="" type="checkbox"/> Submersible Pump; type: <u>Purge pump</u> <input type="checkbox"/> Other (specify) _____	Purged By: <u>Steve Krcik</u> <small>name</small>  Purge Notes: <u>pH meter not functioning</u> _____ _____ _____ Purged Dry?: <u>no</u>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">Purge Calculation</th></tr> <tr><td>total depth =</td><td>13.77</td></tr> <tr><td>depth to water =</td><td>7.31</td></tr> <tr><td>linear feet of water =</td><td>6.46</td></tr> <tr><td>gallons per linear foot =</td><td>0.17</td></tr> <tr><td>gallons per casing =</td><td>1.10</td></tr> <tr><td>number of casings X</td><td>3</td></tr> <tr><td>calculated purge =</td><td>3.29</td></tr> </table>	Purge Calculation		total depth =	13.77	depth to water =	7.31	linear feet of water =	6.46	gallons per linear foot =	0.17	gallons per casing =	1.10	number of casings X	3	calculated purge =	3.29	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>casing diameter</th><th></th><th>gallons per linear foot</th></tr> <tr><td>0.75 in.</td><td><input type="checkbox"/></td><td>0.023</td></tr> <tr><td>1 in.</td><td><input type="checkbox"/></td><td>0.04</td></tr> <tr><td>2 in.</td><td><input checked="" type="checkbox"/></td><td>0.17</td></tr> <tr><td>4 in.</td><td><input type="checkbox"/></td><td>0.67</td></tr> <tr><td>6 in.</td><td><input type="checkbox"/></td><td>1.5</td></tr> <tr><td>other</td><td><input type="checkbox"/></td><td>calculate</td></tr> <tr><td colspan="3">1 cubic foot = 7.48 gallons</td></tr> </table>	casing diameter		gallons per linear foot	0.75 in.	<input type="checkbox"/>	0.023	1 in.	<input type="checkbox"/>	0.04	2 in.	<input checked="" type="checkbox"/>	0.17	4 in.	<input type="checkbox"/>	0.67	6 in.	<input type="checkbox"/>	1.5	other	<input type="checkbox"/>	calculate	1 cubic foot = 7.48 gallons			
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other	<input type="checkbox"/>	calculate																																								
1 cubic foot = 7.48 gallons																																										

## WELL SAMPLING DATA

	time (24 HR)	total gallons (purged)	pH (units)	EC (µs @ 25° C)	temp (°C)	color (see below)	turbidity (NTU or see below)	odor (see below)
1	1300	2	---	640	7.2	clear	trace	none
2	1302	4	---	634	6.2	clear	trace	none
3	1304	6	---	615	6.1	clear	trace	none
3								
4								
5								

brown, yellow cloudy, clear    heavy, moderate light, trace    strong, moderate slight, none

<b>Groundwater Sampling Information</b>								
<b>Sample Type</b> <input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Extraction Well <input type="checkbox"/> Domestic Well <input type="checkbox"/> Other (specify) _____	<b>Sampling Equipment</b> <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable <input type="checkbox"/> Teflon #: _____ <input type="checkbox"/> Submersible Pump; type: _____ <input type="checkbox"/> Sampling Port <input type="checkbox"/> Other (specify) _____	Sampled By: <u>Steve Krcik</u> <small>name</small>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Sample ID</th> <th>Date</th> <th>Time (24:00)</th> </tr> <tr> <td>MW-3</td> <td>7/27/2006</td> <td>1310</td> </tr> </table>	Sample ID	Date	Time (24:00)	MW-3	7/27/2006	1310		
Sample ID	Date	Time (24:00)						
MW-3	7/27/2006	1310						
# of Cont.	Analyses	Container/Size	Preservative	Sampling Notes:				

# FIELD DATA SHEET-GROUNDWATER SAMPLING

## WELL INFORMATION

<b>Site Information</b>	
Block 10 Lot 5, Fairbanks Airport <small>Project Address</small>	MW-4      06-6102-00-8536-071 <small>Well/Sample Point ID      Project Number</small>
Fairbanks <small>City</small>	Alaska <small>State</small>

<b>Purge Information</b>																																	
<b>Water Level Equipment</b> <input checked="" type="checkbox"/> Electronic Indicator <input type="checkbox"/> Oil Water Interface Probe <input type="checkbox"/> Other (specify) _____ checked for SPH with bailer	<b>Purge Equipment</b> <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable <input type="checkbox"/> Teflon #: _____ <input checked="" type="checkbox"/> Submersible Pump; type: <u>Purge pump</u> <input type="checkbox"/> Other (specify) _____																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">Purge Calculation</th></tr> <tr><td>total depth =</td><td>13.80</td></tr> <tr><td>depth to water =</td><td>7.39</td></tr> <tr><td>linear feet of water =</td><td>6.41</td></tr> <tr><td>gallons per linear foot =</td><td>0.17</td></tr> <tr><td>gallons per casing =</td><td>1.09</td></tr> <tr><td>number of casings X</td><td>3</td></tr> <tr><td>calculated purge =</td><td>3.27</td></tr> </table>	Purge Calculation		total depth =	13.80	depth to water =	7.39	linear feet of water =	6.41	gallons per linear foot =	0.17	gallons per casing =	1.09	number of casings X	3	calculated purge =	3.27	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>casing diameter</th><th>gallons per linear foot</th></tr> <tr><td>0.75 in.</td><td><input type="checkbox"/> 0.023</td></tr> <tr><td>1 in.</td><td><input type="checkbox"/> 0.04</td></tr> <tr><td>2 in.</td><td><input checked="" type="checkbox"/> 0.17</td></tr> <tr><td>4 in.</td><td><input type="checkbox"/> 0.67</td></tr> <tr><td>6 in.</td><td><input type="checkbox"/> 1.5</td></tr> <tr><td>other</td><td><input type="checkbox"/> calculate</td></tr> <tr><td colspan="2">1 cubic foot = 7.48 gallons</td></tr> </table>	casing diameter	gallons per linear foot	0.75 in.	<input type="checkbox"/> 0.023	1 in.	<input type="checkbox"/> 0.04	2 in.	<input checked="" type="checkbox"/> 0.17	4 in.	<input type="checkbox"/> 0.67	6 in.	<input type="checkbox"/> 1.5	other	<input type="checkbox"/> calculate	1 cubic foot = 7.48 gallons	
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Purged By: <u>Steve Krcik</u> <small>name</small> Purge Notes: pH meter not functioning _____ _____ _____ Purged Dry?:    no																																	

## WELL SAMPLING DATA

	time (24 HR)	total gallons (purged)	pH (units)	EC ( $\mu$ s @ 25° C)	temp (°C)	color (see below)	turbidity (NTU or see below)	odor (see below)
1	1200	2	---	640	7.2	clear	trace	none
2	1202	4	---	634	6.2	clear	trace	none
3	1204	6	---	615	6.1	clear	trace	none
3								
4								
5								

brown, yellow cloudy, clear	heavy, moderate light, trace	strong, moderate slight, none
--------------------------------	---------------------------------	----------------------------------

<b>Groundwater Sampling Information</b>							
<b>Sample Type</b> <input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Extraction Well <input type="checkbox"/> Domestic Well <input type="checkbox"/> Other (specify) _____	<b>Sampling Equipment</b> <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable <input type="checkbox"/> Teflon #: _____ <input type="checkbox"/> Submersible Pump; type: _____ <input type="checkbox"/> Sampling Port <input type="checkbox"/> Other (specify) _____						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Sample ID</th><th>Date</th><th>Time (24:00)</th></tr> <tr><td>MW-4</td><td>7/27/2006</td><td>1208</td></tr> </table>	Sample ID	Date	Time (24:00)	MW-4	7/27/2006	1208	Sampled By: <u>Steve Krcik</u> <small>name</small>
Sample ID	Date	Time (24:00)					
MW-4	7/27/2006	1208					
# of Cont.	Analyses	Container/Size	Preservative	Sampling Notes:			



# FIELD DATA SHEET-GROUNDWATER SAMPLING

## WELL INFORMATION

<b>Site Information</b>	
Block 10 Lot 5, Fairbanks Airport <small>Project Address</small>	MW-6      06-6102-00-8536-071 <small>Well/Sample Point ID      Project Number</small>
Fairbanks <small>City</small>	Alaska <small>State</small>

<b>Purge Information</b>																																	
<b>Water Level Equipment</b> <input checked="" type="checkbox"/> Electronic Indicator <input type="checkbox"/> Oil Water Interface Probe <input type="checkbox"/> Other (specify) <u>checked for SPH with bailer</u>	<b>Purge Equipment</b> <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable <input type="checkbox"/> Teflon #: _____ <input checked="" type="checkbox"/> Submersible Pump, type: <u>Purge pump</u> <input type="checkbox"/> Other (specify) _____																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2">Purge Calculation</th></tr> <tr><td>total depth =</td><td>13.95</td></tr> <tr><td>depth to water =</td><td>7.31</td></tr> <tr><td>linear feet of water =</td><td>6.64</td></tr> <tr><td>gallons per linear foot =</td><td>0.17</td></tr> <tr><td>gallons per casing =</td><td>1.13</td></tr> <tr><td>number of casings X</td><td>3</td></tr> <tr><td>calculated purge =</td><td>3.39</td></tr> </table>	Purge Calculation		total depth =	13.95	depth to water =	7.31	linear feet of water =	6.64	gallons per linear foot =	0.17	gallons per casing =	1.13	number of casings X	3	calculated purge =	3.39	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>casing diameter</th><th>gallons per linear foot</th></tr> <tr><td>0.75 in. <input type="checkbox"/></td><td>0.023</td></tr> <tr><td>1 in. <input type="checkbox"/></td><td>0.04</td></tr> <tr><td>2 in. <input checked="" type="checkbox"/></td><td>0.17</td></tr> <tr><td>4 in. <input type="checkbox"/></td><td>0.67</td></tr> <tr><td>6 in. <input type="checkbox"/></td><td>1.5</td></tr> <tr><td>other <input type="checkbox"/></td><td>calculate</td></tr> <tr><td colspan="2">1 cubic foot = 7.48 gallons</td></tr> </table>	casing diameter	gallons per linear foot	0.75 in. <input type="checkbox"/>	0.023	1 in. <input type="checkbox"/>	0.04	2 in. <input checked="" type="checkbox"/>	0.17	4 in. <input type="checkbox"/>	0.67	6 in. <input type="checkbox"/>	1.5	other <input type="checkbox"/>	calculate	1 cubic foot = 7.48 gallons	
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other <input type="checkbox"/>	calculate																																
1 cubic foot = 7.48 gallons																																	
Purged By: <u>Steve Krcik</u> <small>name</small> Purge Notes: <u>pH meter not functioning</u> _____ _____ Purged Dry?: <u>no</u>																																	

## WELL SAMPLING DATA

	time (24 HR)	total gallons (purged)	pH (units)	EC (u s @ 25° C)	temp (°C)	color (see below)	turbidity (NTU or see below)	odor (see below)
1	1235	2	---	633	8.2	clear	trace	none
2	1237	4	---	632	8.3	clear	trace	none
3	1239	6	---	627	7.9	clear	trace	none
3								
4								
5								

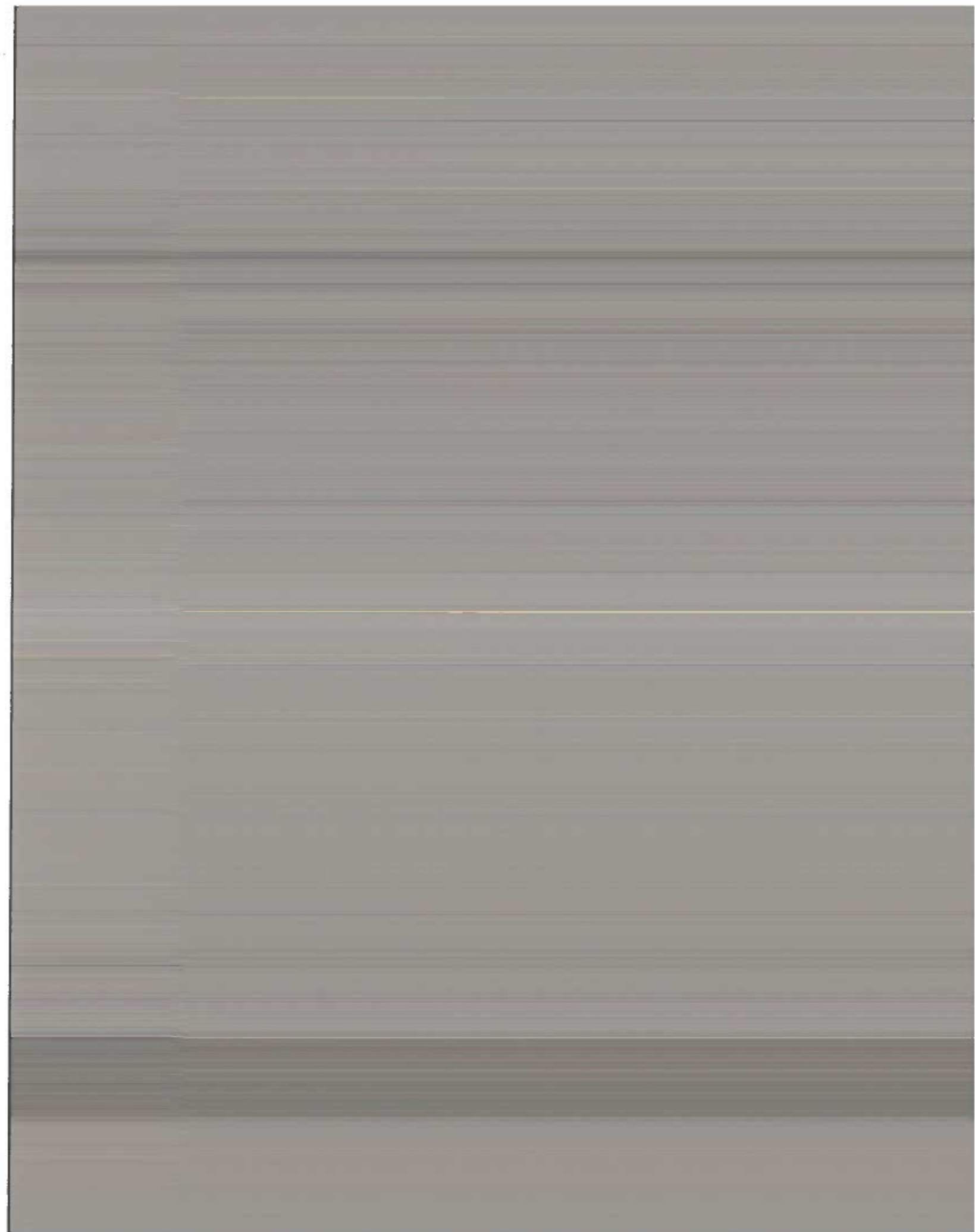
brown, yellow      heavy, moderate      strong, moderate  
 cloudy, clear      light, trace      slight, none

<b>Groundwater Sampling Information</b>							
<b>Sample Type</b> <input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Extraction Well <input type="checkbox"/> Domestic Well <input type="checkbox"/> Other (specify) _____	<b>Sampling Equipment</b> <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable <input type="checkbox"/> Teflon #: _____ <input type="checkbox"/> Submersible Pump, type: _____ <input type="checkbox"/> Sampling Port <input type="checkbox"/> Other (specify) _____						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Sample ID</th> <th>Date</th> <th>Time (24:00)</th> </tr> <tr> <td>MW-6</td> <td>7/27/2006</td> <td>1245</td> </tr> </table>	Sample ID	Date	Time (24:00)	MW-6	7/27/2006	1245	Sampled By: <u>Steve Krcik</u> <small>name</small>
Sample ID	Date	Time (24:00)					
MW-6	7/27/2006	1245					
# of Cont. <input type="checkbox"/>	Analyses <input type="checkbox"/>	Container/Size	Preservative	Sampling Notes:			

**ATTACHMENT B**

**LABORATORY ANALYTICAL REPORTS**

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August 10, 2006

Steve Krcik  
SAIC  
401 Alberto Way, Suite B  
Los Gajos, CA/USA 95032

RE: Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport

Enclosed are the results of analyses for samples received by the laboratory on 07/28/06 08:22.  
The following list is a summary of the Work Orders contained in this report, generated on 08/10/06  
18:11.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
APG0110	Former Tex. Bulk Plant Blk 10	301726



<b>SAIC</b> 401 Alberto Way, Suite B Los Gatos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b>	Project Number: 301726	Report Created: 08/10/06 18:11
	Project Manager: Steve Krcik		

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	APG0110-01	Water	07/27/06 14:36	07/28/06 08:22
MW-2	APG0110-02	Water	07/27/06 14:17	07/28/06 08:22
MW-3	APG0110-03	Water	07/27/06 13:10	07/28/06 08:22
MW-4	APG0110-04	Water	07/27/06 12:08	07/28/06 08:22
MW-5	APG0110-05	Water	07/27/06 13:45	07/28/06 08:22
MW-6	APG0110-06	Water	07/27/06 12:45	07/28/06 08:22
Purge Water	APG0110-07	Water	07/27/06 14:50	07/28/06 08:22
Trip Blank	APG0110-08	Water	07/27/06 00:00	07/28/06 08:22





<b>SAIC</b> 401 Alberto Way, Suite B Los Gatos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b> Project Number: 301726 Project Manager: Steve Krcik	Report Created: 08/10/06 18:11
--	--	-----------------------------------

**Gasoline Range Organics (C6-C10) and BTEX per AK101**  
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-05 (MW-5)</b>		<b>Water</b>		<b>Sampled: 07/27/06 13:45</b>						
Gasoline Range Organics	AK101 GRO/BTEX	ND	---	50.0	ug/l	1x	6070101	07/28/06 11:48	07/30/06 04:29	
Benzene	"	ND	---	0.500	"	"	"	"	"	
Toluene	"	ND	---	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	---	1.50	"	"	"	"	"	
Surrogate(s): <i>a,a,a-TFT (FID)</i>		86.8%		50 - 150 %	"	"	"	"	"	
<i>a,a,a-TFT (PID)</i>		84.0%		64.8 - 115 %	"	"	"	"	"	
<b>APG0110-06 (MW-6)</b>		<b>Water</b>		<b>Sampled: 07/27/06 12:45</b>						
Gasoline Range Organics	AK101 GRO/BTEX	ND	---	50.0	ug/l	1x	6070101	07/28/06 11:48	07/30/06 05:02	
Benzene	"	ND	---	0.500	"	"	"	"	"	
Toluene	"	ND	---	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	---	1.50	"	"	"	"	"	
Surrogate(s): <i>a,a,a-TFT (FID)</i>		85.5%		50 - 150 %	"	"	"	"	"	
<i>a,a,a-TFT (PID)</i>		83.0%		64.8 - 115 %	"	"	"	"	"	
<b>APG0110-07 (Purge Water)</b>		<b>Water</b>		<b>Sampled: 07/27/06 14:50</b>						
Gasoline Range Organics	AK101 GRO/BTEX	486	---	50.0	ug/l	1x	6070101	07/28/06 11:48	07/30/06 07:13	
Benzene	"	17.7	---	0.500	"	"	"	"	"	
Toluene	"	7.29	---	0.500	"	"	"	"	"	
Ethylbenzene	"	9.78	---	0.500	"	"	"	"	"	
Xylenes (total)	"	53.8	---	1.50	"	"	"	"	"	
Surrogate(s): <i>a,a,a-TFT (FID)</i>		86.6%		50 - 150 %	"	"	"	"	"	
<i>a,a,a-TFT (PID)</i>		84.7%		64.8 - 115 %	"	"	"	"	"	
<b>APG0110-08 (Trip Blank)</b>		<b>Water</b>		<b>Sampled: 07/27/06 00:00</b>						
Gasoline Range Organics	AK101 GRO/BTEX	ND	---	50.0	ug/l	1x	6070101	07/28/06 11:48	07/30/06 00:40	
Benzene	"	ND	---	0.500	"	"	"	"	"	
Toluene	"	ND	---	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	---	1.50	"	"	"	"	"	
Surrogate(s): <i>a,a,a-TFT (FID)</i>		87.6%		50 - 150 %	"	"	"	"	"	
<i>a,a,a-TFT (PID)</i>		82.8%		64.8 - 115 %	"	"	"	"	"	

TestAmerica - Anchorage, AK

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

  
Jennifer L. Poppe For Mike Priebe, Regional Account Manager



<b>SAIC</b> 401 Alberto Way, Suite B Los Gatos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Bldg 10 Lot 5 FBX Airport</b>	Project Number: 301726	Report Created: 08/10/06 18:11
	Project Manager: Steve Krcik		

**Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO**  
TestAmerica - Anchorage, AK

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-07 (Purge Water)</b>		<b>Water</b>								
		<b>Sampled: 07/27/06 14:50</b>								
Diesel Range Organics	AK102/103	0.527	---	0.400	mg/l	1x	6070099	07/28/06 12:45	07/28/06 21:04	
Residual Range Organics	"	ND	----	0.400	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		95.4%				50 - 150 %	"			"
<i>Triacontane</i>		95.0%				50 - 150 %	"			"



<b>SAIC</b>	<b>Project Name:</b> Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport
401 Alberto Way, Suite B	<b>Project Number:</b> 301726 <b>Report Created:</b> 08/10/06 18:11
Los Gajos, CA/USA 95032	<b>Project Manager:</b> Steve Krcik

**Volatile Organic Compounds per EPA Method 8260B**  
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-01 (MW-1) Water Sampled: 07/27/06 14:36</b>										
Ethylbenzene	EPA 8260B	79.7	----	1.00	ug/l	1x	6080015	08/01/06 08:53	08/01/06 18:26	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.00	"	"	"	"	"	
Isopropylbenzene	"	8.65	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	3.60	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	64.6	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	7.36	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	85.8	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	2.04	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	63.7	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	23.5	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	108	----	1.00	"	"	"	"	"	
m,p-Xylene	"	239	----	2.00	"	"	"	"	"	
Surrogate(s):	4-BFB	98.0%					80 - 120 %	"	"	
	1,2-DC4-d4	102%					80 - 120 %	"	"	
	Dibromofluoromethane	104%					80 - 120 %	"	"	
	Toluene-d8	97.0%					80 - 120 %	"	"	



<b>SAIC</b> 401 Alberto Way, Suite B Los Gatos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b>	Project Number: 301726	Report Created: 08/10/06 18.11
	Project Manager: Steve Krcik		

**Volatile Organic Compounds per EPA Method 8260B**  
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-02RE1 (MW-2)</b>		<b>Water</b>		<b>Sampled: 07/27/06 14:17</b>						
Ethylbenzene	EPA 8260B	ND	---	1.00	ug/l	1x	6080086	08/02/06 09:27	08/02/06 16:53	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	---	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	---	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	17.8	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	---	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	---	2.00	"	"	"	"	"	
Surrogate(s)	4-BFB	88.0%		80 - 120 %	"	"	"	"	"	
	1,2-DX A-d4	100%		80 - 120 %	"	"	"	"	"	
	Dibromofluoromethane	97.0%		80 - 120 %	"	"	"	"	"	
	Toluene-d8	88.0%		80 - 120 %	"	"	"	"	"	



<b>SAIC</b> 401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b>	Project Number: 301726	Report Created: 08/10/06 18:11
	Project Manager: Steve Krcik		

**Volatile Organic Compounds per EPA Method 8260B**  
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-03 (MW-3) Water Sampled: 07/27/06 13:10</b>										
Ethylbenzene	EPA 8260B	ND	----	1.00	ug/l	1x	6080015	08/01/06 08:53	08/01/06 19:24	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	16.4	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	1.17	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	2.49	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
<b>Surrogate(s):</b>										
4-BFB		95.5%		80 - 120 %	"					
1,2-DC A-d4		104%		80 - 120 %	"					
Dibromofluoromethane		102%		80 - 120 %	"					
Toluene-d8		93.0%		80 - 120 %	"					



<b>SAIC</b> 401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b> Project Number: 301726 Project Manager: Steve Krcik	Report Created: 08/10/06 18:11
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**Volatile Organic Compounds per EPA Method 8260B**  
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-04 (MW-4)</b>		<b>Water</b>								
		<b>Sampled: 07/27/06 12:08</b>								
Ethylbenzene	EPA 8260B	ND	----	1.00	ug/l	1x	6080015	08/01/06 08:53	08/01/06 19:53	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB</i>				90.5%			80 - 120 %	"	"	
<i>1,2-DCA-d4</i>				104%			80 - 120 %	"	"	
<i>Dibromofluoromethane</i>				104%			80 - 120 %	"	"	
<i>Toluene-d8</i>				94.0%			80 - 120 %	"	"	



<b>SAIC</b> -401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Bk 10 Lot 5 FBX Airport</b> Project Number: 301726 Project Manager: Steve Krcik	Report Created: 08/10/06 18:11
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**Volatile Organic Compounds per EPA Method 8260B**  
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-05 (MW-5) Water Sampled: 07/27/06 13:45</b>										
Ethylbenzene	EPA 8260B	ND	----	1.00	ug/l	1x	6080015	08/01/06 08 53	08/01/06 20 21	
Hexachlorobutadiene	"	ND	---	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	---	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	"	"	"	
Trichloroethene	"	ND	---	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	---	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	---	2.00	"	"	"	"	"	
Surrogate(s):	4-BFB	90.5%					80 - 120 %	"	"	
	1,2-DCA-d4	108%					80 - 120 %	"	"	
	Dibromofluoromethane	106%					80 - 120 %	"	"	
	Toluene-d8	99.0%					80 - 120 %	"	"	



<b>SAIC</b> 401 Alberto Way, Suite B Los Gatos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Bldg 10 Lot 5 FBX Airport</b> Project Number: 301726 Project Manager: Steve Krcik	Report Created: 08/10/06 18:11
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**Volatile Organic Compounds per EPA Method 8260B**  
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-06 (MW-6)</b>		<b>Water</b>		<b>Sampled: 07/27/06 12:45</b>						
Ethylbenzene	EPA 8260B	ND	----	1.00	ug/l	1x	6080015	08/01/06 08:53	08/01/06 20:50	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
<b>Trichlorofluoromethane</b>	"	<b>3.88</b>	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
<b>Surrogate(s):</b>										
4-BFB			95.5%				80 - 120 %	"	"	
1,2-DC A-d4			114%				80 - 120 %	"	"	
Dibromofluoromethane			110%				80 - 120 %	"	"	
Toluene-d8			102%				80 - 120 %	"	"	





<b>SAIC</b> 401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b>	Report Created: 08/10/06 18:11
	Project Number: 301726	
	Project Manager: Steve Krcik	

**Volatile Organic Compounds per EPA Method 8260B**  
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-07 (Purge Water)</b>										
<b>Water</b>										
<b>Sampled: 07/27/06 14:50</b>										
Ethylbenzene	EPA 8260B	8.16	---	1.00	ug/l	1x	6080015	08/01/06 08:53	08/01/06 21:19	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	8.62	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	7.67	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	2.66	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	1.87	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	8.84	----	1.00	"	"	"	"	"	
m,p-Xylene	"	17.3	----	2.00	"	"	"	"	"	
<b>Surrogate(s):</b>										
4-BFB		84.0%		80 - 120%		"				"
1,2-DC'A-d4		98.5%		80 - 120%		"				"
Dibromofluoromethane		94.5%		80 - 120%		"				"
Toluene-d8		85.0%		80 - 120%		"				"



<b>SAIC</b> 401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b> Project Number: 301726 Project Manager: Steve Krcik	Report Created: 08/10/06 18:11
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**Volatile Organic Compounds per EPA Method 8260B**  
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>APG0110-08 (Trip Blank)</b>										
<b>Water</b>										
<b>Sampled: 07/27/06 00:00</b>										
Ethylbenzene	EPA 8260B	ND	----	1.00	ug/l	1x	6080015	08/01/06 08:53	08/10/06 14:08	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Surrogate(s): 4-BFB		86.0%					80 - 120 %	"	"	
1,2-DCA-d4		104%					80 - 120 %	"	"	
Dibromofluoromethane		102%					80 - 120 %	"	"	
Toluene-d8		92.0%					80 - 120 %	"	"	



<b>SAIC</b> 401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b>	Report Created: 08/10/06 18:11
	Project Number: 301726	
	Project Manager: Steve Krcik	

**Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results**  
TestAmerica - Anchorage, AK

QC Batch: 6070101 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL <sup>A</sup>	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Matrix Spike (6070101-MS1)		QC Source: APG0110-03						Extracted: 07/28/06 11:48						
Benzene	AK101 GRO/BTEX	19.1	---	0.500	ug/l	1x	0.253	19.9	94.7%	(75-118)	--	--	07/30/06 09:25	
Toluene	"	20.9	---	0.500	"	"	0.186	20.0	104%	(62.1-135)	--	--	"	
Ethylbenzene	"	20.0	---	0.500	"	"	1.14	20.2	93.4%	(62.4-137)	--	--	"	
Xylenes (total)	"	65.5	---	1.50	"	"	1.08	59.4	108%	(54.8-147)	--	--	"	
Surrogate(s): <i>o,a,o-TFT (PID)</i>		Recovery: 87.4%		Limits: 64.8-115%		07/30/06 09:25								

Matrix Spike Dup (6070101-MSD1)		QC Source: APG0110-03						Extracted: 07/28/06 11:48						
Benzene	AK101 GRO/BTEX	18.9	---	0.500	ug/l	1x	0.253	19.9	93.7%	(75-118)	1.05%	(6.97)	07/30/06 09:58	
Toluene	"	20.8	---	0.500	"	"	0.186	20.0	103%	(62.1-135)	0.480%	(9.83)	"	
Ethylbenzene	"	20.1	---	0.500	"	"	1.14	20.2	93.9%	(62.4-137)	0.499%	(11.8)	"	
Xylenes (total)	"	65.0	---	1.50	"	"	1.08	59.4	108%	(54.8-147)	0.766%	(7.26)	"	
Surrogate(s): <i>o,a,o-TFT (PID)</i>		Recovery: 87.8%		Limits: 64.8-115%		07/30/06 09:58								



<b>SAIC</b> 401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Bk 10 Lot 5 FBX Airport</b>	Report Created: 08/10/06 18:11
	Project Number: 301726	
	Project Manager: Steve Krcik	

**Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results**  
TestAmerica - Portland, OR

QC Batch: 6080015 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (6080015-BLK1)</b>														
Extracted: 08/01/06 08:53														
Acetone	EPA 8260B	ND	---	25.0	ug/l	1x	--	--	--	--	--	--	08/01/06 13:40	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Bromobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Bromofom	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Bromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
2-Butanone (MEK)	"	ND	---	10.0	"	"	--	--	--	--	--	--		
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
sec-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
tert-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Carbon disulfide	"	ND	---	10.0	"	"	--	--	--	--	--	--		
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
2-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
4-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,3-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
2,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,1-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		

TestAmerica - Anchorage, AK

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

  
Jennifer L. Poppe For Mike Priebe, Regional Account Manager



<b>SAIC</b> 401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b>	Report Created: 08/10/06 18:11
	Project Number: 301726	
	Project Manager: Steve Krcik	

**Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results**  
TestAmerica - Portland, OR

QC Batch: 6080015      Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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**LCS (6080015-BS1)**      Extracted: 08/01/06 08:53

Benzene	EPA 8260B	22.1	---	1.00	ug/l	1x	--	20.0	110%	(80-120)	--	--	08/01/06 11:16	
Chlorobenzene	"	20.9	---	1.00	"	"	--	"	104%	(80-124)	--	--	"	
1,1-Dichloroethene	"	20.3	---	1.00	"	"	--	"	102%	(78-120)	--	--	"	
Toluene	"	22.2	---	1.00	"	"	--	"	111%	(80-124)	--	--	"	
Trichloroethene	"	20.6	---	1.00	"	"	--	"	103%	(80-132)	--	--	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 101%</i>		<i>Limits: ND-120%</i>								<i>08/01/06 11:16</i>		
<i>1,2-DCA-d4</i>		<i>100%</i>		<i>ND-120%</i>								<i>"</i>		
<i>Dibromofluoromethane</i>		<i>103%</i>		<i>ND-120%</i>								<i>"</i>		
<i>Toluene-d8</i>		<i>101%</i>		<i>ND-120%</i>								<i>"</i>		

**Matrix Spike (6080015-MS1)**      QC Source: PPG1292-04      Extracted: 08/01/06 08:53

Benzene	EPA 8260B	20.7	---	1.00	ug/l	1x	ND	20.0	104%	(80-124)	--	--	08/01/06 11:45	
Chlorobenzene	"	19.0	---	1.00	"	"	ND	"	95.0%	(72.9-134)	--	--	"	
1,1-Dichloroethene	"	18.8	---	1.00	"	"	ND	"	94.0%	(79.3-127)	--	--	"	
Toluene	"	20.3	---	1.00	"	"	ND	"	102%	(79.7-131)	--	--	"	
Trichloroethene	"	18.4	---	1.00	"	"	ND	"	92.0%	(68.4-130)	--	--	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 95.0%</i>		<i>Limits: ND-120%</i>								<i>08/01/06 11:45</i>		
<i>1,2-DCA-d4</i>		<i>106%</i>		<i>ND-120%</i>								<i>"</i>		
<i>Dibromofluoromethane</i>		<i>106%</i>		<i>ND-120%</i>								<i>"</i>		
<i>Toluene-d8</i>		<i>98.5%</i>		<i>ND-120%</i>								<i>"</i>		

**Matrix Spike Dup (6080015-MSD1)**      QC Source: PPG1292-04      Extracted: 08/01/06 08:53

Benzene	EPA 8260B	21.0	---	1.00	ug/l	1x	ND	20.0	105%	(80-124)	1.44%	(25)	08/01/06 12:14	
Chlorobenzene	"	19.8	---	1.00	"	"	ND	"	99.0%	(72.9-134)	4.12%	"	"	
1,1-Dichloroethene	"	19.7	---	1.00	"	"	ND	"	98.5%	(79.3-127)	4.68%	"	"	
Toluene	"	21.1	---	1.00	"	"	ND	"	106%	(79.7-131)	3.86%	"	"	
Trichloroethene	"	18.6	---	1.00	"	"	ND	"	93.0%	(68.4-130)	1.08%	"	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 97.0%</i>		<i>Limits: ND-120%</i>								<i>08/01/06 12:14</i>		
<i>1,2-DCA-d4</i>		<i>106%</i>		<i>ND-120%</i>								<i>"</i>		
<i>Dibromofluoromethane</i>		<i>108%</i>		<i>ND-120%</i>								<i>"</i>		
<i>Toluene-d8</i>		<i>103%</i>		<i>ND-120%</i>								<i>"</i>		



<b>SAIC</b> 401 Alberto Way, Suite B Los Gajos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b>	Report Created: 08/10/06 18:11
	Project Number: 301726	
	Project Manager: Steve Krcik	

**Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results**  
TestAmerica - Portland, OR

QC Batch: 6080086 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (6080086-BLK1)														
Extracted: 08/02/06 09:27														
Hexachlorobutadiene	EPA 8260B	ND	---	4.00	ug/l	1x	--	--	--	--	--	--	08/02/06 14:01	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	B-18
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB	Recovery:	102%	Limits:	80-120%	"								08/02/06 14:01	
1,2-DC A-d4	108%		80-120%	"									"	
Dibromofluoromethane	108%		80-120%	"									"	
Toluene-d8	108%		80-120%	"									"	



<b>SAIC</b> 401 Alberto Way, Suite B Los Gatos, CA/USA 95032	Project Name: <b>Former Tex. Bulk Plant Blk 10 Lot 5 FBX Airport</b> Project Number: 301726 Project Manager: Steve Krcik	Report Created: 08/10/06 18:11
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**Notes and Definitions**

Report Specific Notes:

- B-18 - Analyte was detected in the blank at greater than one-half of the MRL, but samples are ND.
- R-01 - Reporting limit raised due to dilution necessary for analysis.
- RP-4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



## Laboratory Data Review Checklist

### 1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes     No

Comments:

---

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes     No

Comments:

---

### 2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes     No

Comments:

---

b. Correct analyses requested?

Yes     No

Comments:

---

### 3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ( $4^{\circ} \pm 2^{\circ} \text{C}$ )?

Yes     No

Comments:

---

b. Sample preservation acceptable - acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes     No

Comments:

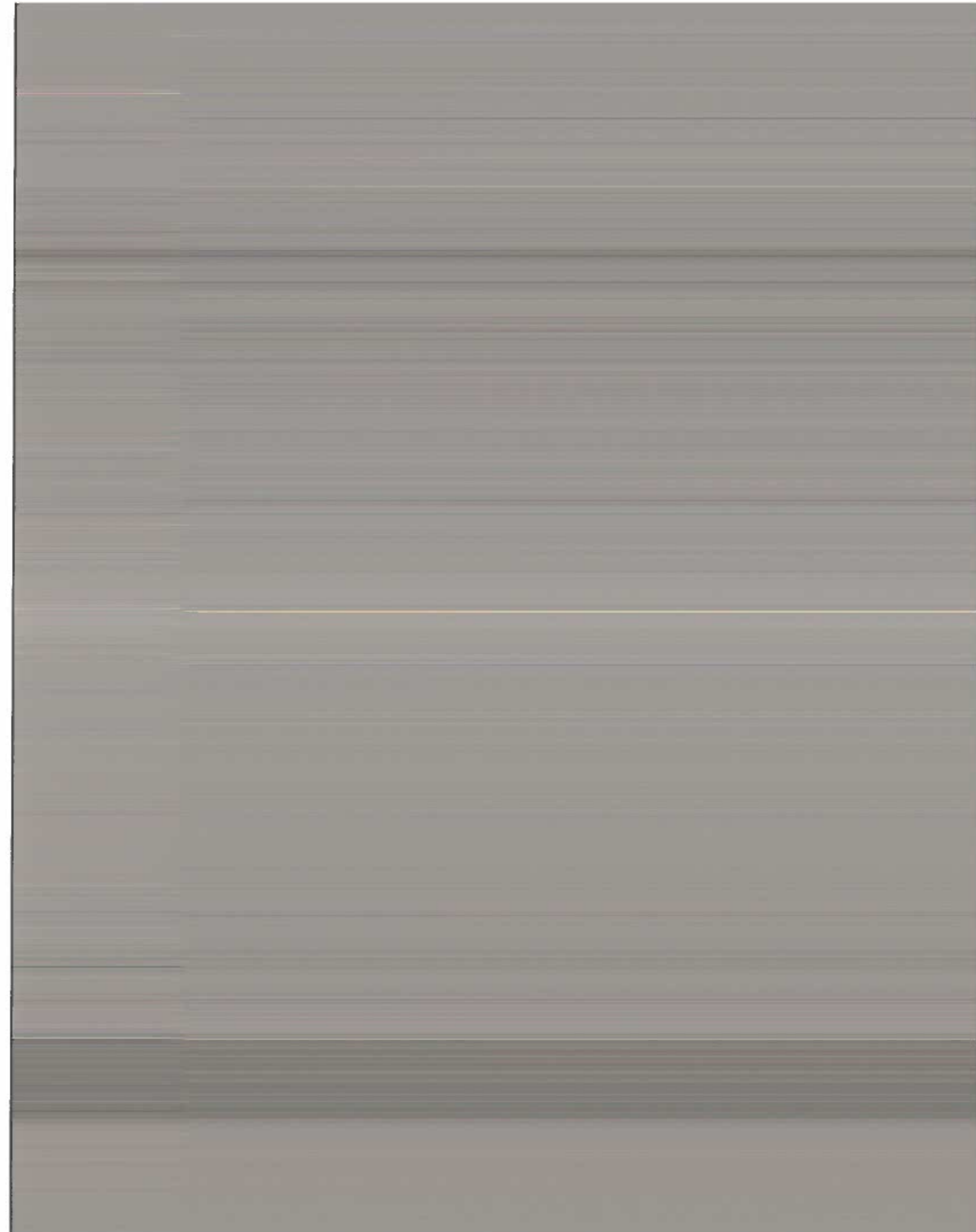
---

c. Sample condition documented - broken, leaking (Methanol), zero headspace (VOC vials)?

Yes     No

Comments:

---





d. If there were any discrepancies, were they documented? - For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes  No

Comments:

e. Data quality or usability affected? Explain.

Comments:

No

4. Case Narrative

a. Present and understandable?

Yes  No

Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes  No

Comments:

Report Specific Notes: QC Batch 6080015 and 6080086 methylene chloride detected in the Blank at greater than one-half of the MRL, but samples are ND, Reporting limit raised due to dilution for GRO/BTEX analysis of sample MW-1, and Duplicate RPD calculation for QC Batch 607009 above limits due to low levels of DRO/RRO

c. Were all corrective actions documented?

Yes  No

Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

RPD calculation for QC Batch 607009 Duplicate does not provide useful information.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

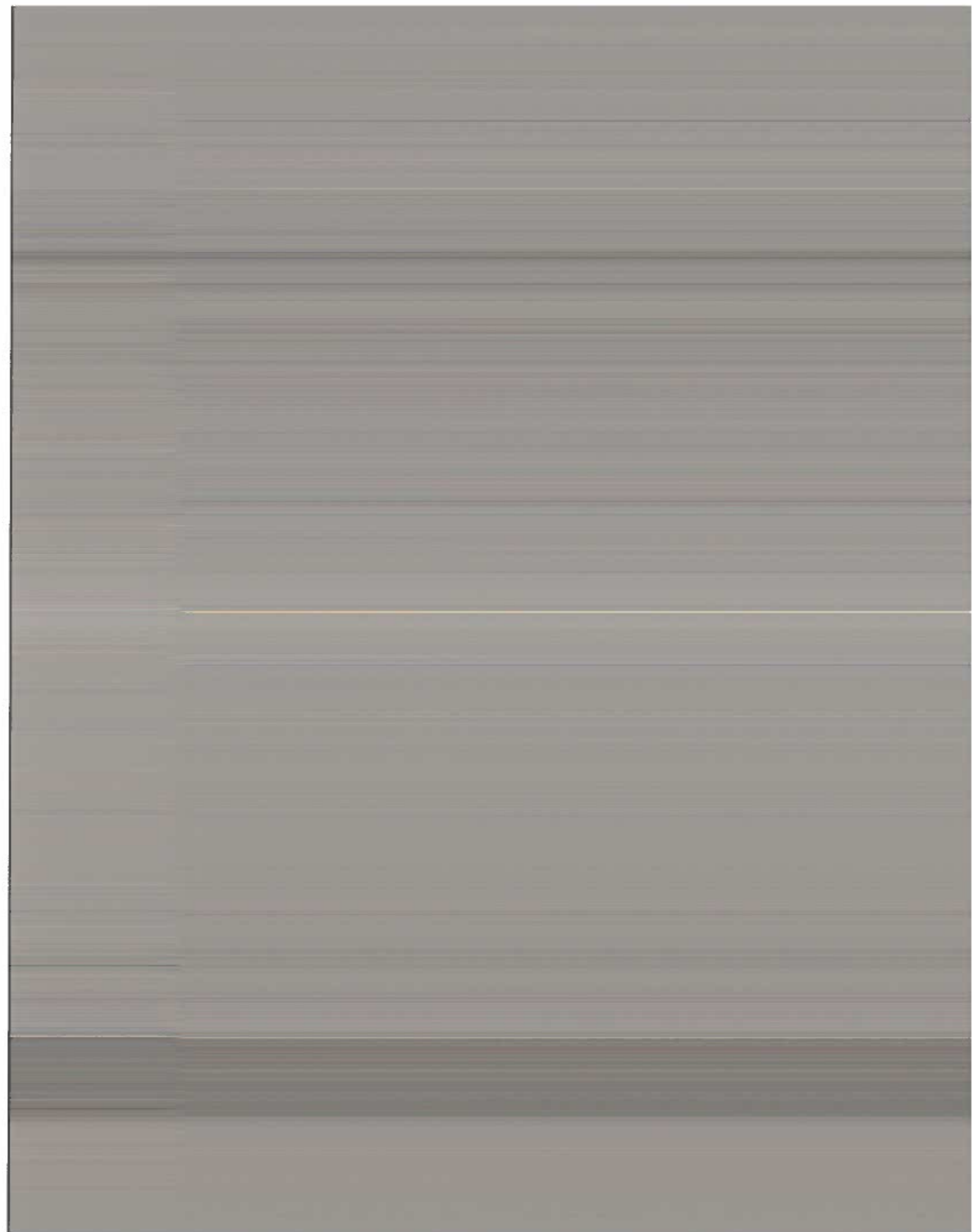
Yes  No

Comments:

b. All applicable holding times met?

Yes  No

Comments:



c. All soils reported on a dry weight basis?

Yes  No

Comments:

Not Applicable (NA)

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes  No

Comments:

e. Data quality or usability affected? Explain.

Comments:

## 6. QC Samples

### a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes  No

Comments:

ii. All method blank results less than PQL?

Yes  No

Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No

Comments:

v. Data quality or usability affected? Explain.

Comments:

### b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics - One LCS/LCSD reported per matrix, analysis and 20 samples?

Yes  No

Comments:

ii. Metals/Inorganics - One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes  No

Comments:

NA

iii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No

Comments:

iv. Precision - All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No

Comments:

All RPD reported, not all are less than method or laboratory limits.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

RPD for QC Batch 6070099 Duplicate above limits.

vi. Do the affected samples(s) have data flags? If so, are the data flags clearly defined?

Yes  No

Comments:

vii. Data quality or usability affected? Explain.

Comments:

Does not provide useful information

c. Surrogates - Organics Only

i. Are surrogate recoveries reported for organic analyses - field, QC and laboratory samples?

Yes  No

Comments:

ii. Accuracy - All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes  No

Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes     No                      Comments:

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iv. Data quality or usability affected? Explain.

Comments:

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d. Trip Blank - Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

Yes     No                      Comments:

Not required for DRO/RRO

ii. All results less than PQL?

Yes     No                      Comments:

---

iii. If above PQL, what samples are affected?

Comments:

---

iv. Data quality or usability affected? Explain.

Comments:

---

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

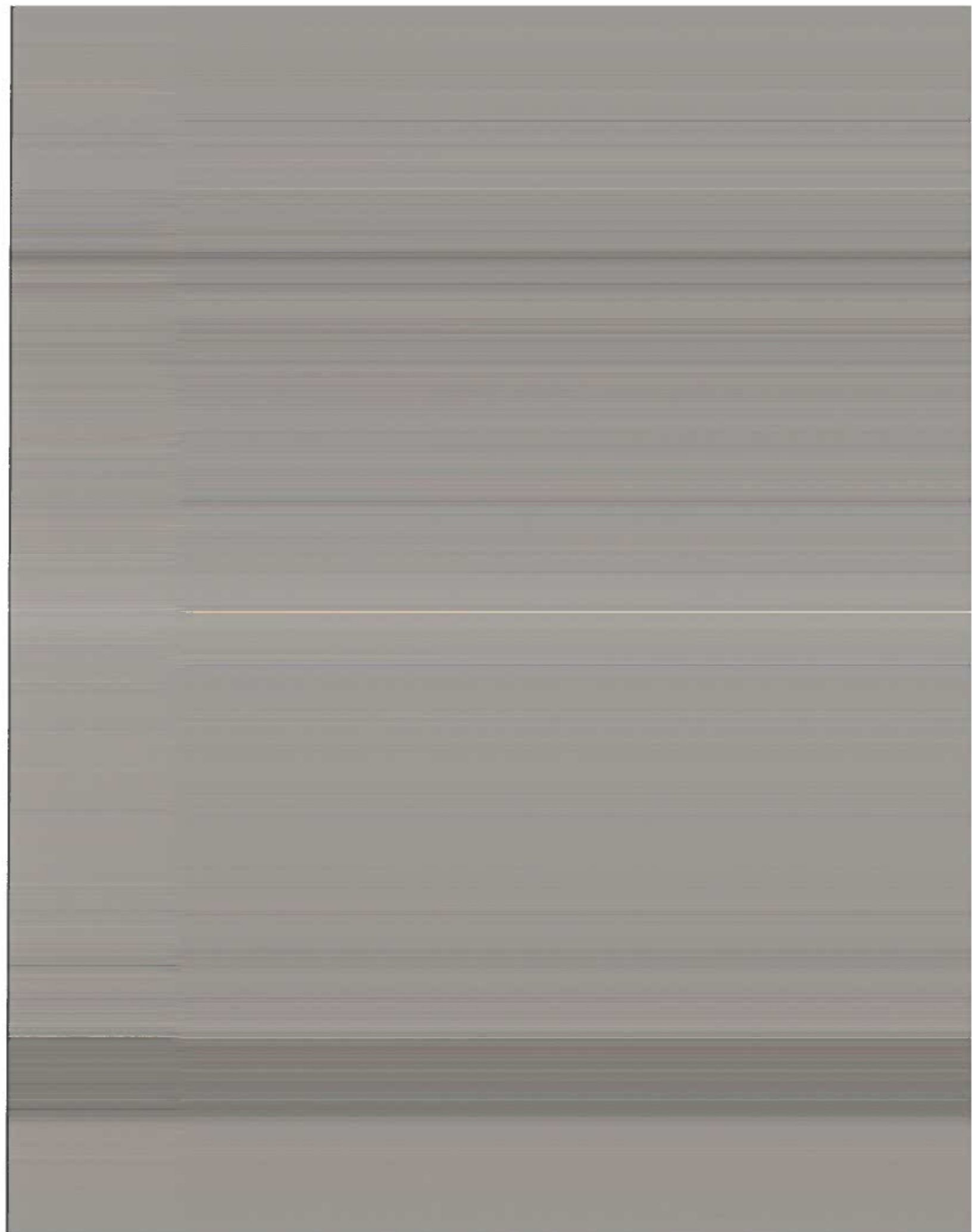
Yes     No                      Comments:

---

ii. Submitted blind to lab?

Yes     No                      Comments:

---



iii. Precision - All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute Value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration  
 $R_2$  = Field Duplicate Concentration

Yes     No                      Comments:

---

iv. Data quality or usability affected? Explain.  
 Yes     No                      Comments:

---

f. Decontamination or Equipment Blank (if applicable)

Yes     No     Not Applicable

i. All results less than PQL?  
 Yes     No                      Comments:

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ii. If above PQL, what samples are affected?  
Comments:

---

iii. Data quality or usability affected? Explain.  
Comments:

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7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?  
 Yes     No                      Comments:

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Completed by:

Title:                       Date:

CS Report Name:                       Report Date:

Consultant Firm:

Laboratory Name:

Laboratory Report Number:

ADEC File Number:

ADEC RecKey Number:

