

**SITE CHARACTERIZATION REPORT
FAIRBANKS INTERNATIONAL AIRPORT
FORMER MARK AIR FACILITIES
FAIRBANKS, ALASKA**

Prepared For

**Fairbanks International Airport
State of Alaska Department of Transportation and Public Facilities
6450 Airport Way, Suite 1
Fairbanks, Alaska 99709**

April 2005

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Prepared by

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The material and data in this report were prepared under the supervision and direction of the undersigned.



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ACRONYMS

ADEC	Alaska Department of Environmental Conservation
ADOT&PF	Alaska Department of Transportation and Public Facilities
AK 101	Alaska method 101
AK 102	Alaska method 102
AK 103	Alaska method 103
AMEC	AMEC Earth and Environmental, Inc.
Av-Gas	aviation gasoline
BTEX	benzene, toluene, ethylbenzene, and xylenes
DRO	diesel range organics
DRPH	diesel range petroleum hydrocarbons
EDB	ethylene dibromide (or 1,2-Dibromoethane)
EDC	ethylene dichloride (or 1,2-Dichloroethane)
EMI	Environmental Management Inc.
ESA	environmental site assessment
FIA	Fairbanks International Airport
GRO	gasoline-range organics
GRPH	gasoline-range petroleum hydrocarbons
IDW	investigation derived waste
MCL	maximum cleanup level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MRL	method reporting limit
NCA	North Creek Analytical
NFA	No Further Action
NFRAP	No Further Remedial Action Planned
Nortech	Nortech Environmental and Engineering Consultants
PAH	polynuclear aromatic hydrocarbons
PID	photoionization detector
ppm	parts per million
PVC	poly-vinyl chloride
QA/QC	quality assurance/quality control
RRO	residual range organics
SLR	SLR International Corp (dba SLR Alaska)
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

1 EXECUTIVE SUMMARY

The Alaska Department of Transportation and Public Facilities, Fairbanks International Airport (FIA) contracted SLR International Corp (SLR) to conduct site characterization activities at the former Weaver Brothers facility, a.k.a former Mark Air Warehouse (Block 10, Lots 6, 7, and 13, FIA) and Mark Air Hangar facility (Block 1, Lot 6, FIA), collectively identified as the former Mark Air facilities at FIA, in Fairbanks, Alaska. This report summarizes soil and ground water results of our recent site characterization work, and makes recommendations for future monitoring, site delineation, and disposal of investigation derived wastes (IDW).

At the former underground storage tank (UST) locations of the two sites, subsurface investigation activities focused on the areas with suspected hydrocarbon-impacted media. These areas represent the locations of former diesel, gasoline and waste oil USTs, and their associated pipe systems. Findings and recommendations are summarized by site in the following paragraphs. Sections 5 and 6 contain more detailed discussions concerning the results of the investigation, and our conclusions and recommendations.

Former Weaver Brother Facility

Former USTs 1-4 and Former Dispenser Island

Gasoline-range organics (GRO); and benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds; in excess of Alaska Department of Environmental Conservation (ADEC) cleanup levels, were encountered at WP-1 and WP-2 in ground water and within the ‘smear zone,’ (the realm of soil and ground water interface in which the water table seasonally fluctuates). Diesel-range organics (DRO) –contaminated soil was encountered at a depth of seven feet in borehole WP-3 (the vicinity of the former dispenser island).

GRO, benzene, ethylbenzene, and DRO were encountered in ground water in excess of ADEC cleanup levels at monitoring well MW-8, located approximately 100 feet downgradient of the former USTs 1 through 4. Benzene was detected slightly below the ADEC cleanup level in ground water at monitoring well MW-9, located approximately 165 feet downgradient of former USTs. A plume of GRO/BTEX- and DRO-contaminated ground water was evident, emanating from the vicinity of these former USTs and dispenser island, and extending northwesterly to MW-8.

To better define the extents of this plume, and to define a possible mitigation scope, the following recommendations are made for the vicinity of these former USTs:

- *Further Characterization* – Collect additional soil and ground water samples lateral to WP-1, WP-2 and WP-3 in order to define the estimated volume of soil and the extent of the dissolved phase petroleum hydrocarbon plume exceeding ADEC cleanup levels. As part of the characterization, consider biannual monitoring of wells WP-1, WP-2, WP-3, MW-8, MW-9, and possibly MW-4 for target contaminants. These data can be used to better clarify the extent of the soil and groundwater contamination at this

location, in addition to providing data that could be used to develop area-wide cleanup levels.

Former UST 8

GRO and DRO in excess of ADEC cleanup levels were encountered at borehole WP-4N, within the 'smear zone'. Well point WP-4N(15) completed with a screen at a depth of 15 feet was dry (above the apparent level of ground water) and could not be used to establish water quality near the surface of the water table in October 2004. Contamination was not encountered at 25 and 35 feet in depth at this nested well, nor was it encountered in neighboring well points WP-5, WP-6 and WP-7.

The following recommendations are made for the vicinity of former UST 8:

- *Monitoring* - Sample and test well point WP-4N(15) for GRO/BTEX, VOCs and DRO in 2005, when the water table is higher.

With favorable results in 2005, it is our opinion that FIA could successfully apply for a No Further Action (NFA) determination from the ADEC at this former UST location.

Former UST 16

Contamination was not found in soil and ground water samples from boreholes/well points WP-8 and WP-9, in the immediate vicinity of former UST 16. We recommend the FIA request a NFA determination from the ADEC for this former UST location.

General Site Conditions

Ground water contamination was not observed above ADEC ground water cleanup levels at the two most down gradient well locations (MW-4 and MW-9). These locations are approximately 80 feet north and 120 feet west of the former dispenser island and former USTs 1-4 location, the closest locations at which petroleum hydrocarbon impact has been documented. From this, it is apparent that ground water contamination from former USTs 1-4 does not extend to the northeast.

Former Mark Air Hanger Facility

Former USTs 6 and 7

Contamination was not found in ground water from well point WP-10, in the immediate vicinity of former USTs 6 and 7. We recommend the FIA request a NFA determination from the ADEC for the locations of these former USTs.

Former UST 10

Shallow well point WP-11N(15) completed with a screen at a depth of 15 feet, was dry and could not be used to establish water quality near the surface of the water table at the former UST 10 location in October 2004. Contamination was not encountered in ground water at 25 and 35 feet depths in this nested well.

The following recommendations are made for the vicinity of former UST 10:

- *Monitoring* - Sample and test well point WP-11N(15) for DRO, VOCs and GRO/BTEX in 2005 when the water table is higher.

With favorable results in 2005, it is our opinion that FIA could successfully apply for a NFA determination from the ADEC at this former UST location.

Former UST 9

Benzene marginally in excess of the ADEC soil cleanup level was encountered at a depth of ten feet in borehole MW-7, representative of the upper 'smear zone' in the vicinity of former UST 9. DRO, toluene, ethylbenzene, xylenes and SVOCs did not exceed ADEC soil target cleanup levels in this sample. As contaminated soil was excavated from this location during the UST removal activities, this benzene detection does not warrant additional soil investigation activities. GRO, DRO and benzene were detected in excess of the ADEC ground water cleanup levels in corresponding monitoring well MW-7.

The following recommendation is made for the vicinity of former UST 9:

- *Further Ground Water Characterization* – Collect additional ground water samples lateral to MW-7 in order to define the extent of the dissolved phase petroleum hydrocarbon plume exceeding ADEC cleanup levels. As part of the characterization, include monitoring of MW-7 for target contaminants. These data can be used to support development of a monitored natural attenuation (MNA) management rationale for this location, in addition to providing data that could be used to develop area-wide cleanup levels.

Former UST 12

GRO and benzene slightly in excess of ADEC cleanup levels were encountered in ground water at well point WP-12, located in the vicinity of former gasoline UST 12. Contaminated soil was removed from this location during removal of the UST.

The following recommendation is made for the vicinity of former UST 12:

- *Monitoring* – Continue to monitor WP-12 for target contaminants. This data can be used to support development of a MNA management rationale for this location, in addition to providing data that could be used to develop area-wide cleanup levels.

Former UST 13

DRO, BTEX and SVOCs were not detected above ADEC soil cleanup levels in sample MW-8-13, collected from the smear zone in the vicinity of former diesel UST 13. From this data, it does not appear that a contaminated soil source area remains at this location and that ground water impacts are likely a remnant plume. GRO, benzene and DRO in excess of ADEC cleanup levels were encountered in ground water in corresponding monitoring well MW-8,

The following recommendation is made for the vicinity of former UST 13:

- *Monitoring* –Continue to monitor MW-8 for target contaminants. This data can be used to support development of a MNA management rationale for this location, in addition to providing data that could be used to develop area-wide cleanup levels.

Former UST 15

DRO in excess of the ADEC cleanup level was encountered in ground water at well point WP-13, in the vicinity of former diesel UST 15. BTEX and SVOCs were not detected above ADEC ground water cleanup levels in this sample. Contaminated soil was excavated from this location during the UST removal activities. This DRO plume is likely the result of remnant smear zone soil and/or ground water impact. The closest downgradient monitoring well (MW-6, located 120 feet downgradient) did not contain DRO or BTEX constituents above ADEC ground water cleanup levels. The following recommendation is made for this vicinity:

- *Monitoring* – Continue to monitor WP-13 for target contaminants. This data can be used to support development of a MNA management rationale for this location, in addition to providing data that could be used to develop area-wide cleanup levels.

General Site Conditions

Contamination was not found in ground water samples from monitoring wells MW-1, MW-3 and MW-6, (located west and down gradient of the former Mark Air Hangar and Cargo buildings and beyond the former USTs). We recommend the FIA discontinue monitoring these wells at this time. However, FIA may wish to consider maintaining these wells for potential future use. We understand that the integrity of MW-1 may be compromised, and that the well head is often located beneath ponded surface water during the spring. Consequently future data from this well may be of questionable quality.

2 INTRODUCTION

SLR International Corp (SLR) was retained on September 13, 2004 by Alaska Department of Transportation and Public Facilities (ADOT&PF), Fairbanks International Airport (FIA) to conduct further site characterization and remediation activities and site closure assistance for two former Mark Air facilities at FIA (Figure 1).

The two facilities are known as the former Weaver Brothers Facility also known as the former Mark Air warehouse (Block 10, Lots 6, 7, and 13, FIA (Figure 2)) and the former Mark Air Hangar (Block 1, Lot 6, FIA (Figure 6)). Both facilities were serviced by a total of 17 underground storage tanks (USTs) which were closed by removal in 1992 by Environmental Management Inc. (EMI). At the time of removal, 12 of the 17 USTs had undergone tank tightness testing and four of the USTs had failed the test. Contaminated soil was encountered during closure of some of the USTs, and limited removal activities of this impacted soil was performed.

Some contaminated soil remained in place, and subsequent activities at the sites included long-term ground water monitoring between 1993 and 2003 by EMI, and subsequently by Nortech Environmental and Engineering Consultants (Nortech) and AMEC Earth and Environmental, Inc. (AMEC).

On December 15, 2003, FIA requested that Alaska Department of Environmental Conservation (ADEC) issue a NFA determination for UST 11 at the former Weaver Brothers facility. On December 16, 2003, FIA requested that ADEC issue NFA determinations for three USTs located at the former Mark Air Hangar facility, as well as a NFRAP determination (no further remedial action planned) for two USTs. Based on subsequent discussions between the FIA Environmental Manager and ADEC, SLR prepared *Fairbanks International Airport, Former Mark Air Facilities, Fairbanks, Alaska, Final Site Characterization Work Plan*, dated September 2004 (the Work Plan), which was approved by ADEC on October 1, 2004. SLR performed field activities in accordance with the Work Plan in October and November 2004, with the exceptions noted in Section 5.4.

2.1 Purpose

This site characterization report summarizes our field activities and soil and ground water analytical results, in the vicinity of former USTs at the two facilities that have USTs yet to be granted NFA or NFRAP (no further remedial action planned) status.

2.2 Objectives

Our report is structured to provide an introduction and background to the sites, identify regulatory compliance, describe field activities and procedures, present results of analytical

testing, and make recommendation as necessary toward regulatory closure of these sites. An executive summary of results and recommendations is provided for convenience to the client.

3 BACKGROUND

An overview of regional and local geology, hydrogeology, and historical environmental activity at the former Mark Air facilities are summarized in this section.

3.1 Regional and Local Geology

Fairbanks is located on the north side of the Tanana River Valley, at the base of the hills of the southern Yukon-Tanana Upland, approximately 100 miles south of the Arctic Circle. Mountain summits in the area typically top out at 1,250 to 1,800 feet in elevation, with local relief ranging from 600 to 1,300 feet in elevation.

Fairbanks bedrock geology comprises calc-mica schist, marble, and quartzite (Péwé, 1982). The schist is locally intruded by quartz diorite, granite, or other granitic rocks. In uplands, bedrock is typically overlain with wind-blown silt or loess (upper slopes), or erosional silts (lower slopes). Valley bottoms exhibit thick deposits of coarse gravels on bedrock, which are overlain with silt. Hydraulic conductivity of these silts and percolation of precipitation is low; frozen silts are typically impermeable to ground water flow and may exhibit high ice contents. Fairbanks is located in a physiographic zone of discontinuous permafrost; the active layer, or realm of seasonally frozen ground, is typically 1 to 15 feet thick.

The FIA lies at the confluence of the Chena and Tanana Rivers in west Fairbanks. The flood plain exhibits deposits of unconsolidated alluvial gravelly sands and sandy gravel several hundreds of feet thick. Physiographic features include silt-laden swales, oxbows, and sloughs, and stream and creek tributaries of the two rivers. The alluvium is commonly unfrozen within the flood plain, but can be frozen to depths of several hundred feet in places. Frozen alluvium typically exhibits low ice content and low probability of massive ice (Péwé, 1982); local ice wedges and lenses are sporadically encountered in uplands of the Fairbanks area.

The average annual precipitation in Fairbanks is 11.2 inches per year. Maximum discharge to the Tanana and Chena Rivers typically occurs from mid-July through August, with minimum influx occurring in late winter before spring thaw. The Tanana River is the major source of ground water recharge in the area. The general ground water flow direction through the flood plain (former Mark Air sites inclusive) is northwesterly, with local variations from southwest to north.

3.2 Historical Environmental Activities

Environmental investigation activity has occurred at both of the former Mark Air sites since the early 1990s. Releases were confirmed, and a Phase I Environmental Site Assessment (ESA) was completed in early 1992. USTs at former Weaver Brothers and Mark Air Hangar facilities were tested for tightness, four failed, and a Phase II ESA was completed in November 1992. The original 17 USTs were removed from both sites, some contaminated soils were removed and

stockpiled for later treatment, and a ground water monitoring program was initiated in 1993. This ground water program was to be a coordinated effort between Mark Air, the United States Postal Service, Crowley, and MAPCO, as an area-wide ground water investigation. Nine monitoring wells were installed in 1993, four at the Weaver Brothers site, and five at the former Mark Air Hangar site. Petroleum hydrocarbons above state maximum cleanup levels (MCLs) and some volatile organic compounds (VOCs) were detected in ground water from some wells. Ground water monitoring was intermittent at these sites between 1993 and 2002. The septic system at the former Mark Air Hangar facility, and a septic crib at the former Weaver Brothers site were investigated in 2001 and 2003, respectively. Key environmental documents are identified:

- *Phase 2 Site Assessment, MarkAir Fairbanks Facilities, Fairbanks, Alaska, Volume 1*, by EMI, Anchorage, dated February 1993.
- *NRO File 100.26.043, Phase 2 Site Assessment, MarkAir Fairbanks Facilities, Volume 1* (Phase 2 Site Assessment revision letter), by EMI, Anchorage, dated March 9, 1993.
- *MarkAir Fairbanks Monitoring Well Report*, by EMI, Anchorage, undated (stamped received in November 1993).
- *Environmental Investigation Report, Lot 6 Block 1, Fairbanks International Airport*, by Rockwell Engineering & Construction Services, Inc., Fairbanks, dated June 25, 2001.
- *Results and Summary of Ground water Sampling, Block 1, Lot 6, of the Fairbanks International Airport, Former Mark Air Hangar*, by Nortech Environmental & Engineering Consultants, Fairbanks, dated October 21, 2003.
- *Results of Ground water Sampling, Weaver Brothers Facility, Lot 7, Block 10, Fairbanks International Airport*, by AMEC Earth & Environmental, Inc., Fairbanks, dated November 24, 2003.
- *Septic Crib Characterization Report, 5250 Airport Industrial Road, (Lots 6, 7, and 13, Block 10), Fairbanks International Airport*, by Shannon & Wilson, Inc., Fairbanks, dated November 2003.
- *No Further Action (NFA) Request for UST #11, former Weaver Brothers Facility, Block 10, Lots 6, 7, and 13, Fairbanks International Airport*, by ADOT&PF – FIA, dated December 15, 2003.
- *No Further Action (NFA) Request for USTs #1, 5, and 14 and No Further Remedial Action Planned (NFRAP) Request for USTs #6 & 7 at the former MarkAir Hangar/Cargo Facility, Block 1, Lot 6, Fairbanks International Airport*, by ADOT&PF – FIA, dated December 16, 2003.

3.2.1 Former Weaver Brothers Facility

Seven USTs, all installed in 1976, were removed and closed at the former Weaver Brothers Facility (Figure 2). Figures 3, 4 and 5 identify the locations of these former tanks. USTs 4 (leaded gas) and 8 (waste oil) failed tank tightness tests in 1992. UST 11 was removed, and no

contamination was encountered. Appearance of overfilling or leaks was associated with USTs 1 through 4, 8 and 16. These tanks and associated pipes were removed as practical; some pipes were cut and grouted in place near building edges.

Soil investigation indicated diesel-range and gasoline-range petroleum hydrocarbons (DRPH and GRPH, respectively), benzene, and total benzene, toluene, ethylbenzene, and xylenes (BTEX) in excess of the applicable cleanup levels in excavations for USTs 1 through 4, and UST 8. DRPH in soil exceeded the applicable cleanup level in the UST 16 excavation.

Four monitoring wells were installed at the former Weaver Brothers facility in 1992. These historic wells are identified on the aforementioned figures. Review of the historical ground water analytical data indicates benzene and lead were not been detected above state cleanup levels since before 1997 at monitoring well WB-3. Although benzene and diesel-range organics (DRO) were ground water contaminants of concern at well WB-4, these compounds were not been detected above state cleanup levels over the past couple of years. Trace VOCs have been detected in ground water at some of these wells, but at concentrations below applicable cleanup standards.

3.2.2 Former Mark Air Hangar Facility

Ten USTs, installed between 1974 and 1980 were removed and closed at the former Mark Air Hangar facility (Figures 6 through 11). UST 9 (diesel) and 10 (waste oil) failed tank tightness tests in 1992. USTs 5 and 15 were removed and no contamination was encountered. Holes were found in USTs 9 and M01; appearance of overfilling and/or leaks was associated with USTs 10 and 13. The ten tanks and associated pipes were removed as practical; some pipes were cut and grouted in place near building edges or at other structural barriers.

Soil investigation indicated DRPH, GRPH, benzene, and total BTEX in excess of the applicable cleanup levels in excavations for USTs 6, 7, and 10 (Figure 7); soil contaminated with VOCs was also encountered in the UST 10 excavation. DRPH in soil exceeded the applicable cleanup level in USTs 9, 13, and 15 excavations. Benzene in soil exceeded the applicable cleanup level in USTs 12 and M01 excavations (Figures 8-11). Soil was not contaminated in the UST 14 excavation.

Five monitoring wells (MW-1 through MW-5 in Figure 6) were installed at the former Mark Air Hangar facility in 1992. Well MW-5 was later decommissioned and replaced with a push-point well as MW-6 in 2002. Review of the historical ground water analytical data indicates that contaminants of concern are trichloroethene at MW-2, and residual range organics (RRO) at MW-5 (now MW-6). Lead is also a contaminant of concern at this site. During a 2003 sampling event trace VOCs were detected in ground water at MW-3; 1,1-dichloroethene was detected slightly above the applicable cleanup standard.

3.2.3 Excavated Contaminated Soils

Along with removal of the 17 USTs in 1992, approximately 4,300 cubic yards of contaminated soils were excavated, segregated, and stockpiled on-site for later treatment. We understand that soil was remediated off-site. No soils were observed stockpiled at either site during the course of our site characterization fieldwork.

4 FIELD ACTIVITIES AND PROCEDURES

SLR performed site characterization field activities at the former Mark Air facilities between the last week in September 2004 through November 2, 2004. Utility locates and site accesses were coordinated prior to October 4, 2004. Discovery Drilling Inc. of Anchorage, Alaska (Discovery) met SLR staff at the site on October 4 for FIA badging and initial briefing on site safety and health and the fieldwork schedule. Borehole drilling and well installations were performed under SLR supervision between October 4 and 8, 2004. SLR accomplished well development between October 11 and 12, 2004. SLR completed ground water sampling between October 13 and 15, 2004, and again on November 2, 2004. These activities were performed to assess subsurface soil conditions and ground water quality in the vicinity of former tank locations. Field tasks and procedures are discussed in the following sections. Investigation derived waste (IDW) management is also considered.

4.1 Utility Locates

SLR coordinated with utility providers during the last week in September through October 4, 2004 to locate buried and aboveground utility conveyances before commencing drilling. Golden Valley Electric Association, College Utilities, Alaska Communication Systems (ACS), and Alaska OneCall were contacted and SLR staff met utility personnel in the field as necessary to locate the sites and identify utility alignments for marking.

4.2 Field Investigation Methods

The investigation methodology implemented for subsurface soil and ground water sampling is presented below. Building footprints, locations of former USTs, locations of previously installed USTs, locations of new wells, and locations of well points are shown on the attached figures. Copies of the North Creek Analytical (NCA) laboratory reports, photographs, SLR field data, e.g., soil boring logs, monitoring well and well-point completion details, monitoring well development records, our field log notes, well survey data, and IDW management records are included in the appendices.

4.2.1 Subsurface Soils

Seventeen soil borings were drilled to various depths between 15 and 35 feet deep (Table 1A), using a truck-mounted drill rig equipped with an 8-inch outside diameter by $\frac{3}{4}$ -inch inside diameter hollow-stem auger. Discovery performed the borings under SLR supervision. SLR located and documented the boreholes as soil boring logs (Appendix C).

Eleven borings were advanced at the former Weaver Brothers site, 8 to 15 feet, 1 to 18 feet, 1 to 20 feet, and one to 35 feet deep.

Six borings were advanced at the former Mark Air Hangar facility, 3 to 15 feet, 2 to 20 feet, and one to 35 feet deep.

Soils were field screened with a photoionization detector (PID), samples were collected for laboratory testing, and well points or monitoring wells were installed according to the schedule outlined in Table 1B.

During drilling, soil samples were collected with split-spoon samplers at 5-foot intervals through the depths of borehole penetration. Split-spoon sampling was accomplished by driving a 3-inch outside diameter by 2.5-inch inside diameter sampler into the soil at the base of the auger with a heavy drop hammer falling 30 inches onto the drill rods. Penetration resistance was assessed from the blow counts, the number of blows (or hammer drops) required to advance the sampler 6 inches over a 2-foot interval at the desired sample realm.

Once a split-spoon was retrieved and opened, soils were visually classified and a sample was collected in a zip-loc baggie and field-screened with a PID to infer presence of organic contaminants. Field-screen samples were allowed to warm in a heated truck for 15 minutes before finger agitation and the PID probe was inserted for headspace analysis. Total hydrocarbon emissions are recorded on the soil boring logs (Appendix C). The PID headspace measurements were used to assist determination of sample collections for laboratory analytical testing.

Relatively undisturbed samples for analytical testing were typically collected from the split-spoon tube where contamination was inferred with the PID, or from the vicinity of the water table interface. The representative samples were collected in laboratory-supplied jars, which were labeled and logged before being placed into coolers with ice-substitute for cold storage until submittal to the laboratory. A chain-of-custody and seal accompanied each cooler of samples to the NCA laboratory as a quality control measure. Table 1A summarizes the soil sample schedule with duplication at ten percent frequency, with a minimum of one duplicate sample per site.

Discovery performed decontamination of auger flights after completion of each borehole. For borings where petroleum compounds were contaminants of concern, augers were steam-cleaned with detergent and rinsed in a tub, and wash water was drummed as 'oily water' IDW. Where VOC and/or polynuclear aromatic hydrocarbon (PAH) contamination might be encountered, wash water was drummed as other hazardous IDW. SLR performed split-spoon decontamination after each sample collection with a bucket-wash setup. The split-spoon halves were first brushed free of soil in a detergent bath, then dipped and washed in a soap bath, and finally rinsed with deionized water. This decontamination IDW was segregated as oily water or other hazardous water and combined with drilling IDW accordingly.

4.2.2 Ground Water

SLR installed two monitoring wells at each of the former Weaver Brothers and Mark Air Hangar sites in accordance with ADEC's *Recommended Practices for Monitoring Well Design, Installation, and Decommissioning*.

At the former Weaver Brothers site, 18- and 20-foot-deep monitoring wells MW-9 and MW-8 were installed downgradient of former USTs 1 through 4 (Figure 2).

At the former Mark Air Hangar site, 20-foot monitoring wells MW-7 and MW-8 (Figure 6) were installed at each of the former UST 9 and UST 13 locations.

Monitoring wells were installed in boreholes subsequent soil sampling. The typical well was constructed with a 2-inch-diameter, schedule 40 polyvinyl chloride (PVC) casing, the bottom 10-feet of which is 0.010-inch slot-screen PVC. Annular space around the wells was backfilled with #16-30 silica sand to at least 1-foot above the top of screen and above a hydrated 2-foot bentonite seal, up to within 6 inches of the ground surface. The wells were completed with flush-mounted protective monuments and an asphalt or concrete patch.

Nine well points (WP-1 through WP-9) were installed at the former Weaver Brothers site at the locations identified in Figure 2. Eight of these well points were installed to depths between 15 and 20 feet. The ninth, WP-4N, is a well point cluster comprising three discrete sampling points embedded at 15, 25, and 35-foot depths. Another four well points were installed at the former Mark Air Hangar site at the locations shown in Figure 6. Well points WP-10, WP-12 and WP-13 were installed to 15 or 20 feet deep. Well point WP-11N is a well point cluster comprising three discrete sampling points at 15, 25, and 35-foot depths.

The typical single-point well was constructed with a ¼-inch-diameter PVC riser above a 2-foot length of 1-inch-diameter PVC, slotted screen section, screw-capped at both ends. This well point was connected to the surface with poly-tube fastened with cable ties and a Parker fitting. The typical nested well point cluster was constructed with a 1-inch diameter PVC stalk and 2-foot lengths of 2-inch diameter PVC slot-screened well points. Each well point was fastened to the stalk with cable ties at a prescribed depth, and similarly completed with a color-coded poly-tube and a Parker fitting. The well points were constructed without use of PVC cement or other chemical adhesives. A flush-mounted protective monument was installed around the well point head to complete each installation.

The newly constructed monitoring wells and well points were developed before sampling. First, the wells were purged of at least three casing volumes of ground water using a peristaltic pump set for low-flow purging. Field measurements of purge volume, temperature, pH, specific conductivity, and ORP (oxygen recovery potential) were recorded on SLR Well Sampling Calculation and Record Sheets during purging. Well completion details, development records, and purge measurements are included in Appendix C; field notes are included as Appendix D.

SLR subcontracted Stutzmann Engineering Association (Stutzmann), a licensed professional surveyor, to perform a well survey of the new monitoring installations. Vertical and horizontal datum were recorded to fix well locations and accommodate ground water level measurements. The Stutzmann survey data, amended with reference locations, is included in Appendix E.

4.3 Analytical Methods

Soil and ground water samples were submitted for laboratory analysis in accordance with the analytical program summarized in Tables 1A and 1B. Samples were analyzed for specific contaminants of concern based on source of contamination (former tank contents) and historical

data for these sites. Target compounds and analytical methods used for this site characterization work were:

- BTEX using United States Environmental Protection Agency (USEPA) Method 8021B;
- GRO using Alaska Method 101 (AK 101);
- DRO using Alaska Method 102 (AK 102);
- RRO using Alaska Method 103 (AK 103);
- VOCs using USEPA Method 8260B (including EDC);
- ADEC-priority PAH compounds using USEPA Method 8270C with selective ion monitoring (or 8270C-SIM);
- Lead using USEPA Method 6020; and
- EDB (or 1,2 dibromoethane) using USEPA Method 8011.

Field duplicate samples were collected at a minimum frequency of 10 percent of the total number of samples collected, with at least one duplicate for each analytical method used at each site. Trip blanks for each of the soil and ground water sampling parameters accompanied the laboratory shipment of containers to and from the site. The North Creek Analytical (NCA) laboratory analytical reports with quality control reviews are included in Appendix A. An SLR Quality Assurance Review of the NCA results is also included in Appendix A.

4.4 IDW Management

Borehole soil tailings were containerized in metal, 55-gallon drums. Tailings were segregated in the field based on historical knowledge of the borehole location relative to contaminants of concern, PID headspace screening data, and analytical sample results. Decontamination IDW was segregated and drummed as described in section 4.2.1. Water generated during well development and sampling was managed similarly to that of soil IDW. Purge water was segregated based on historical knowledge of the wells location with respect to known contamination and target contaminants. In general, water with potential to contain petroleum contaminants and lead was drummed separate from water that might contain VOCs and PAHs. IDW drums were sealed and labeled with borehole and well nomenclature, inventoried, and collectively stored on asphalt near the east corner of the former Weaver Brothers site. The analytical results will be used to determine the final disposition of drummed soils and water produced during the site investigations.

5 RESULTS

5.1 Site Characterization

Soils from each of the boreholes performed at both sites were field-screened for indication of contamination.

A total of 13 soil samples were collected for laboratory analysis from the former Weaver Brothers sites. One sample was collected from each borehole, with the exception of MW-9, which was installed downgradient of the soil contamination with the purpose of identifying ground water quality. Three duplicates were also collected from these sites.

Soil samples from three of the six borings at the former Mark Air Hangar facility, plus one duplicate sample were also tested.

Ground water samples from each of the wells and well points at both sites were also collected and analyzed.

Eighteen water samples were collected from the former Weaver Brothers sites, 3 were duplicates, and one pair was collected from nested well point WP-4N.

An additional 14 samples, including 4 duplicates and a sample pair from nested well point WP-11N were collected and tested from the former Mark Air Hangar facility.

Results of the soil and ground water analyses are discussed in the following sections and are summarized in Tables 2 through 5.

5.2 Soil Quality

5.2.1 Former Weaver Brothers Sites

At the Former Weaver Brothers sites, target contaminants were not detected above ADEC cleanup levels in soils analyzed from boreholes WP-5, WP-6 and WP-7 (beyond former UST 8), and WP-8 and WP-9 (vicinity of former UST 16).

GRO and BTEX compounds in excess of ADEC cleanup levels were encountered in soil from near the ground water table at boreholes WP-1 and WP-2 (in the vicinity of former USTs 1-4). Specifically, GRO, benzene, toluene, and ethylbenzene concentrations at a depth of 11 feet in WP-1 were reported at 1,020 mg/kg, 0.574 mg/kg, 12.4 mg/kg, and 14.8 mg/kg respectively. GRO, benzene, toluene, ethylbenzene, and xylenes concentrations at a depth of 11 feet in WP-2

were reported at 2,720 mg/kg, 29.2 mg/kg, 138 mg/kg, 56.9 mg/kg, and 230 mg/kg respectively. At WP-3, in the vicinity of the former dispenser island, DRO at a concentration of 7,450 mg/kg in soil was encountered at a depth of 7 feet.

At a depth of 10 feet in borehole MW-8, located downgradient of former USTs 1-4, benzene was also reported in excess of the ADEC cleanup level at 0.376 mg/kg.

At borehole WP-4N (in the immediate vicinity of former UST 8) DRO and GRO/BTEX in soil in excess of ADEC cleanup levels were encountered near the ground water table at a depth of 11 feet. . DRO was reported at 805 mg/kg, GRO at 1,260 mg/kg, benzene at 0.186 mg/kg, toluene at 14.0 mg/kg, and ethylbenzene at 7.85 mg/kg at this location.

VOCs, PAHs, RRO and lead were not detected above method reporting limits (MRLs) or above ADEC cleanup levels in soils at the former Weaver Brothers sites.

5.2.2 Former Mark Air Hangar Sites

VOCs, PAHs, GRO, DRO, RRO, BTEX and lead were not detected above MRLs or ADEC cleanup levels in soil samples analyzed from the former Mark Air Hangar facility (vicinity of former USTs 13, and 6 and 7), with the following exception. Benzene, reported at 0.0316 mg/kg, was encountered at 10 feet in depth at borehole MW-7 (vicinity of former UST 9).

5.3 Ground Water Quality

5.3.1 Former Weaver Brothers Sites

At the former Weaver Brothers sites, target contaminants were not detected above ADEC cleanup levels in ground water analyzed from well points WP-4N, WP-5, WP-6 and WP-7 (vicinity of former UST 8), and WP-8 and WP-9 (vicinity of former UST 16). Furthermore, target contaminants were not detected above ADEC cleanup levels in ground water from new monitoring well MW-9, and historic monitoring wells MW-2, MW-3 and MW-4.

In the vicinity of former USTs 1-4, GRO and benzene were detected in the ground water sample from well point WP-1 at concentrations exceeding the ADEC cleanup levels. GRO was reported at 2.37 mg/L and benzene at 0.00723 mg/L. At WP-2, DRO and some BTEX analytes were reported in excess of the ADEC cleanup levels for ground water. The respective concentrations of DRO, benzene, toluene, and ethylbenzene in the WP-2 sample were 1.96 mg/L, 1.6 mg/L, 5.59 mg/L and 0.846 mg/L. Lead was the only target contaminant found to be in excess of its ADEC cleanup level in the well-point WP-3 sample, reported slightly above the cleanup level (0.015 mg/L) at 0.0198 mg/L.

Downgradient from USTs 1-4, the ground water sample from downgradient well MW-8 exceeded the ADEC cleanup levels for DRO, GRO, some BTEX analytes, and EDC, a gasoline additive. The respective DRO, GRO, benzene, ethylbenzene, and EDC concentrations are 1.97 mg/L, 20.9 mg/L, 3.86 mg/L, 1.41 mg/L, and 0.0324 mg/L.

RRO, PAHs, and other VOCs were not detected above ADEC cleanup levels in ground water samples from the well points and monitoring wells at the former Weaver Brothers site.

5.3.2 Former Mark Air Hangar

At the former Mark Air Hangar sites, target contaminants were not detected above ADEC cleanup levels in ground water analyzed from well points WP-10 (vicinity of former USTs 6 and 7), WP-11N (vicinity of former UST 10), and historic monitoring wells MW-1 and MW-3 (vicinity of airplane graveyard), and MW-6 (vicinity of cargo building).

DRO, GRO and/or benzene in excess of ADEC cleanup levels was reported in ground water samples from monitoring wells MW-7 and MW-8, and well points WP-12 and WP-13.

In the sample collected from MW-7 (vicinity of former UST 9), DRO, GRO and benzene were reported at 2.22 mg/L, 3.31 mg/L, and 0.13 mg/L, respectively.

In the sample collected from MW-8 (vicinity of former UST 13), GRO and benzene were reported at 2.2 mg/L and 0.018 mg/L, respectively.

In the sample collected from WP-12 (vicinity of former UST 12), GRO and benzene were reported at 1.56 mg/L and 0.0518 mg/L, respectively.

In the sample collected from WP-13 (vicinity of former UST 15), DRO was reported at 4.87 mg/L.

RRO, PAHs, and VOCs were not detected above ADEC cleanup levels in ground water samples from the well points and monitoring wells at the former Mark Air Hangar sites.

5.4 Deviations From Workplan Analytical Program

5.4.1 Soil Analytical Program

At the former Weaver Brothers sites in the vicinity of former diesel USTs 1 and 2, the workplan specified that a BTEX and DRO sample would be collected from boring WP-2. However, a BTEX and GRO sample was collected and analyzed. As noted above, the BTEX and GRO concentrations exceeded the ADEC soil cleanup levels at this location.

The workplan did not specify collection of soil samples downgradient of USTs 1 and 2 (at locations MW-8 or MW-9). As suspected soil contamination was encountered in the smear zone at MW-8, SLR field staff collected a sample and requested analysis for BTEX, GRO, DRO and RRO. Benzene was encountered in soil above the ADEC cleanup level at this location.

5.4.2 Ground Water Analytical Program

At the former Weaver Brothers sites in the vicinity of former dispenser island associated with gasoline USTs 3 and 4, a ground water sample was collected from well point WP-3, adjacent to

the dispenser island. The workplan specified that it would be analyzed for BTEX, GRO, DRO and EDC. Although the BTEX, GRO and DRO analyses were performed as requested, due to a communication error with NCA, the sample was not analyzed for EDC.

However, as noted above, a ground water sample and associated duplicate sample (samples WP-1 and WP-3A) were analyzed for GRO, VOCs, PAHs, total lead, EDB and EDC adjacent to the former gasoline USTs 3 and 4 that were formerly connected to the dispenser island (a lateral distance of 77 feet up gradient). Although benzene was encountered slightly above the ADEC ground water cleanup level in these samples, EDC was not detected above the MRL of 0.00001 mg/L.

The purpose of the EDC analysis in this vicinity was to determine the presence or absence of EDC in ground water associated with the gasoline fuel stored in former USTs 3 and 4. Samples WP-1 and associated duplicate sample WP-3A have confirmed the absence of EDC above the MRL.

5.5 IDW Soil and Water

IDW generated from field activities at the two former Mark Air sites comprised fifteen drums of soil tailings and three drums of purge water. Based on the NCA analytical results, seven of the soil drums contained petroleum hydrocarbons in excess of ADEC cleanup levels, and five soil drums did not contain contamination. Based on PID results, three drums of soil required further testing for petroleum hydrocarbons to definitively determine the soil quality. Alternatively, the drums could be considered impacted and handled as such.

The three drums of purge water contain petroleum compounds in excess of ADEC cleanup standards. Consequently, we submitted analytical results to Golden Hearts Utilities and are awaiting their response for possible treatment of this water at their facility. Similarly, Organic Incineration Technology of North Pole, Alaska must validate analytical results with their permit for possible incineration of the contaminated soil drums. These authorizations are not anticipated until January 2005. Once the proper authorizations are obtained, SLR will assist FIA-ADOT&PF with IDW disposal as necessary. The IDW inventory is included in Appendix F.

5.6 Quality Assurance/Quality Control

Quality assurance and quality control (QA/QC) procedures are used to assure sampling, documentation and laboratory results are of acceptable quality and are deemed reliable. QA procedures used to validate results include standard field sampling techniques, sample duplication, laboratory QC, and analysis of trip blanks.

Our field sampling procedures follow ADEC guidelines and are described in Chapter 4. Sample duplication was performed at a minimum frequency of ten percent of the total number of samples collected, with at least one duplicate collected for each analytical method used at each of the two sites. Laboratory QC measures included analysis of method blanks, matrix and matrix spike (MS) samples with duplication, and laboratory control spiked (LCS) samples with duplication.

Surrogate recoveries and relative percent difference (RPD) calculations between MS and LCS samples and their associated duplicates are integral to laboratory QC.

A trip blank, which accompanies a sample kit through the duration of sampling and during transit to and from the laboratory, is by design as a negative control for field sampling procedures. If analysis detects contamination in a ‘clean’ trip blank, cross-contamination resulting from poor handling of samples in the field is indicated. However, contaminants (e.g., cleaning agents, refrigerants, surrogates) can accidentally be introduced into a trip blank at the laboratory during sample kit preparations. Furthermore, laboratories that traditionally did not charge for trip blank analyses are not doing so. Consequently, trip blanks were analyzed at a frequency of twenty percent for this project. Field duplication of soil and ground water samples is a better way to assess the quality of sample collection and storage procedures, and the precision of laboratory testing.

In addition to the standard QA/QC procedures outlined above, SLR performed a quality assurance review (QAR) of each NCA laboratory report, supplemented with field-duplicate precision calculations for each field sample and its duplicate counterpart. Expressed as RPDs for individual analytes or parameters detected above reporting or method detection limits in both samples, these RPD values are a way for us to assess data quality objectives. RPD is defined as

$$RPD = 100 \times \frac{(\textit{field result} - \textit{duplicate result})}{(\textit{field result} + \textit{duplicate result}) \div 2}$$

Our data quality objectives for petroleum contamination in soil and ground water are ± 50 and ± 30 percent, respectively. When RPDs exceed these precision goals, review of sampling procedures and laboratory case narratives and data qualifiers is warranted in assessing reliability of the affected results. Examples of phenomena that can cause elevated RPDs include collection of co-located rather than true duplicate samples (common with soil samples), laboratory results flagged as ‘estimated’ due to surrogate recoveries outside control limits or matrix effects, and poor laboratory analysis.

In general, our reviews of the NCA laboratory reports indicate overall satisfaction with precision, accuracy, and completeness of the analytical results, despite the lack of field (or trip) blank analyses. The QA/QC measures that were applied to sampling and analyses are sufficient to warrant reliability in the results. Furthermore, comparison of the analytical results reported herein with historic data did not indicate anomalous findings at either former Mark Air site. Our Laboratory Data Validation Reviews of the NCA reports are included in Appendix A.

6 CONCLUSIONS AND RECOMMENDATIONS

Organization of this section is by site, then by former UST location for ease of reading and decision-making. The information collected during our 2004 site characterization work and historic information from the two sites was used to develop recommendations for the former UST locations.

6.1 Former Weaver Brothers Sites

6.1.1 Former USTs 1-4 and Former Dispenser Island

GRO and BTEX compounds in excess of ADEC cleanup levels, were encountered at WP-1 and WP-2 in ground water and within the ‘smear zone,’ (the realm of soil and ground water interface in which the water table seasonally fluctuates). DRO –contaminated soil was encountered at a depth of seven feet in borehole WP-3 (the vicinity of the former dispenser island).

GRO, benzene, ethylbenzene, and DRO were encountered in ground water in excess of ADEC cleanup levels at monitoring well MW-8, located approximately 100 feet downgradient of the former USTs 1 through 4. Benzene was detected slightly below the ADEC cleanup level in ground water at monitoring well MW-9, located approximately 165 feet downgradient of former USTs. A plume of GRO/BTEX- and DRO-contaminated ground water was evident, emanating from the vicinity of these former USTs and dispenser island, and extending northwesterly to MW-8.

To better define the extents of this plume, and to define a possible mitigation scope, the following recommendations are made for the vicinity of these former USTs:

- *Further Characterization* – Collect additional soil and ground water samples lateral to WP-1, WP-2 and WP-3 in order to define the estimated volume of soil and the extent of the dissolved phase petroleum hydrocarbon plume exceeding ADEC cleanup levels. As part of the characterization, consider biannual monitoring of wells WP-1, WP-2, WP-3, MW-8, MW-9, and possibly MW-4 for target contaminants. These data can be used to better clarify the extent of the soil and groundwater contamination at this location, in addition to providing data that could be used to develop area-wide cleanup levels.

6.1.2 Former UST 8

GRO and DRO in excess of ADEC cleanup levels were encountered at borehole WP-4N, within the ‘smear zone’. Well point WP-4N(15) completed with a screen at a depth of 15 feet was dry

(above the apparent level of ground water) and could not be used to establish water quality near the surface of the water table in October 2004. Contamination was not encountered at 25 and 35 feet in depth at this nested well, nor was it encountered in neighboring well points WP-5, WP-6 and WP-7.

The following recommendations are made for the vicinity of former UST 8:

- *Monitoring* - Sample and test well point WP-4N(15) for GRO/BTEX, VOCs and DRO in 2005, when the water table is higher.
- With favorable results in 2005, it is our opinion that FIA could successfully apply for a NFA determination from the ADEC at this former UST location

6.1.3 Former UST 16

Contamination was not found in soil and ground water samples from boreholes/well points WP-8 and WP-9, in the immediate vicinity of former UST 16. We recommend the FIA request a NFA determination from the ADEC for this former UST location.

6.1.4 General Site Conditions

Ground water contamination was not observed above ADEC ground water cleanup levels at the two most down gradient well locations (MW-4 and MW-9). These locations are approximately 80 feet north and 120 feet west of the former dispenser island and former USTs 1-4 location, the closest locations at which petroleum hydrocarbon impact has been documented. From this, it is apparent that ground water contamination from former USTs 1-4 does not extend to the northeast.

6.2 Former Mark Air Hanger Facility

6.2.1 Former USTs 6 and 7

Contamination was not found in ground water from well point WP-10, in the immediate vicinity of former USTs 6 and 7. We recommend the FIA request a NFA determination from the ADEC for this former UST location.

6.2.2 Former UST 10

Shallow well point WP-11N(15) completed with a screen at a depth of 15 feet was dry and could not be used to establish water quality near the surface of the water table at the former UST 10 location in October 2004. Contamination was not encountered in ground water at 25 and 35 feet in depth at this nested well.

The following recommendations are made for the vicinity of former UST 10:

- *Monitoring* - Sample and test well point WP-11N(15) for DRO, VOCs and GRO/BTEX after spring breakup in 2005, when the water table is higher.

With favorable results in 2005, it is our opinion that FIA could successfully apply for a NFA determination from the ADEC at this former UST location.

6.2.3 Former UST 9

Benzene marginally in excess of the ADEC soil cleanup level was encountered at a depth of ten feet in borehole MW-7, representative of the upper 'smear zone' in the vicinity of former UST 9. DRO, toluene, ethylbenzene, xylenes and SVOCs did not exceed ADEC soil target cleanup levels in this sample. As contaminated soil was excavated from this location during the UST removal activities, this benzene detection does not warrant additional soil investigation activities. GRO, DRO and benzene were detected in excess of the ADEC ground water cleanup levels in corresponding monitoring well MW-7.

The following recommendation is made for the vicinity of former UST 9:

- *Further Ground Water Characterization* – Collect additional ground water samples lateral to MW-7 in order to define the extent of the dissolved phase petroleum hydrocarbon plume exceeding ADEC cleanup levels. As part of the characterization, include monitoring of MW-7 for target contaminants. These data can be used to support development of a MNA management rationale for this location, in addition to providing data that could be used to develop area-wide cleanup levels..

6.2.4 Former UST 12

GRO and benzene slightly in excess of ADEC cleanup levels were encountered in ground water at well point WP-12, located in the vicinity of former gasoline UST 12. Contaminated soil was removed from this location during closure of the UST.

The following recommendation is made for the vicinity of former UST 12:

- *Monitoring* – Continue to monitor WP-12 for target contaminants. This data can be used to support development of a MNA management rationale for this location, in addition to providing data that could be used to develop area-wide cleanup levels.

6.2.5 Former UST 13

DRO, BTEX and SVOCs were not detected above ADEC soil cleanup levels in sample MW-8-13, collected from the smear zone in the vicinity of former diesel UST 13. From this data, it does not appear that a contaminated soil source area remains at this location and that ground water impacts are likely a remnant plume. GRO, benzene and DRO in excess of ADEC cleanup levels were encountered in ground water in corresponding monitoring well MW-8,

The following recommendation is made for the vicinity of former UST 13:

- *Monitoring* –Continue to monitor MW-8 for target contaminants. This data can be used to support development of a MNA management rationale for this location, in addition to providing data that could be used to develop area-wide cleanup levels.

6.2.6 Former UST 15

DRO in excess of the ADEC cleanup level was encountered in ground water at well point WP-13, in the vicinity of former diesel UST 15. BTEX and SVOCs were not detected above ADEC ground water cleanup levels in this sample. Contaminated soil was excavated from this location during the UST removal activities. This DRO plume is likely the result of remnant smear zone soil and/or ground water impact. The closest downgradient monitoring well (MW-6, located 120 feet downgradient) did not contain DRO or BTEX constituents above ADEC ground water cleanup levels. The following recommendation is made for this vicinity:

- *Monitoring* – Continue to monitor WP-13 for target contaminants. This data can be used to support development of a MNA management rationale for this location, in addition to providing data that could be used to develop area-wide cleanup levels.

6.3 General Site Conditions

Contamination was not found in ground water samples from monitoring wells MW-1, MW-3 and MW-6, (located west and down gradient of the former Mark Air Hangar and Cargo buildings and beyond the former USTs). We recommend the FIA discontinue monitoring these wells at this time. However, FIA may wish to consider maintaining these wells for potential future use. We understand that the integrity of MW-1 may be compromised, and that the well head is often located beneath ponded surface water during the spring. Consequently future data from this well may be of questionable quality.

7 REFERENCES

Péwé, TL. 1982. *Geologic Hazards of the Fairbanks Area, Alaska*. Alaska Geological & Geophysical Surveys, Special Report 15.

Other reports and miscellaneous documents associated with environmental activity at the former Weaver Brothers and Mark Air Hangar Facility sites are listed in Section 3.2 of this report.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

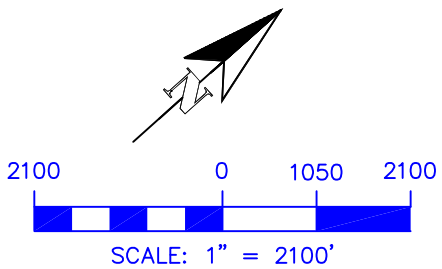
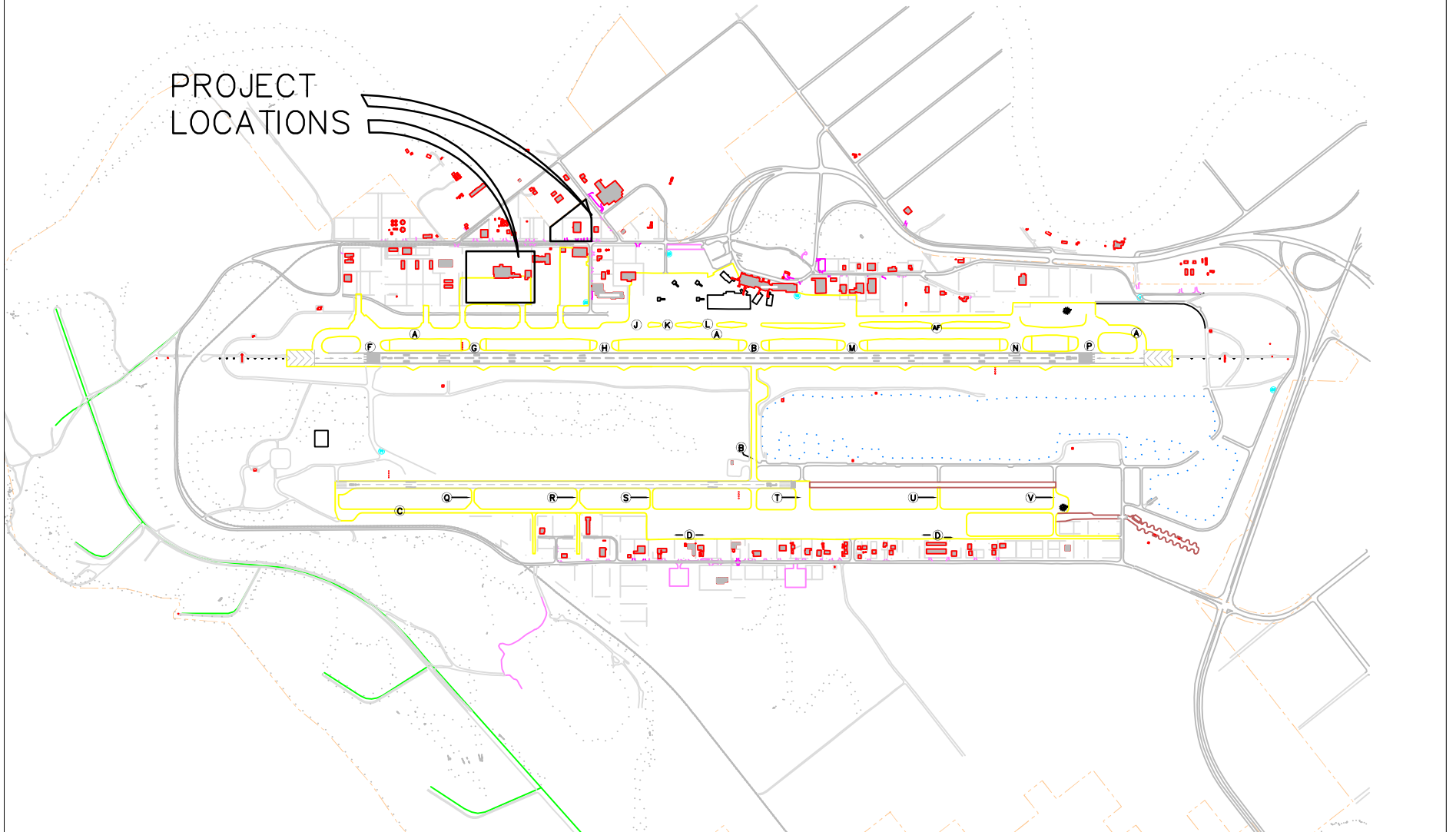
No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

Environmental conditions may exist at the site that cannot be identified by visual observation. Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.

FIGURES

PROJECT
LOCATIONS



SLR Alaska

2525 Blueberry Road, Suite 206
Anchorage, AK 99503
(907)222-1112 Fax (907)222-1113

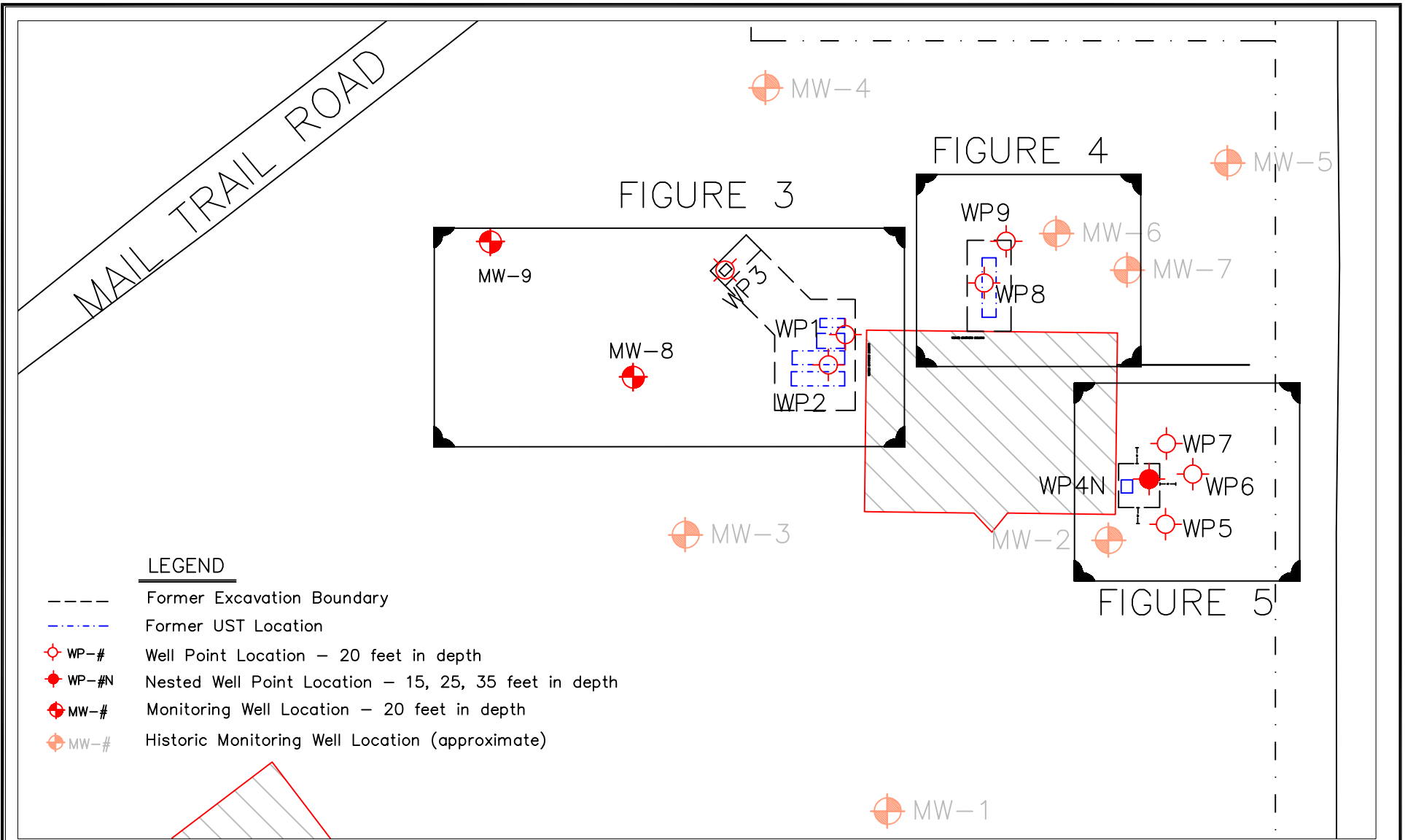
3522 International Street
Fairbanks, AK 99701
(907)455-9005 Fax (907)455-9015
SLR International Corp.

Alaska Department of Transportation

FORMER MARK AIR FACILITIES
FAIRBANKS INTERNATIONAL AIRPORT

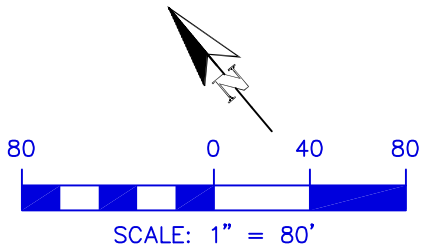
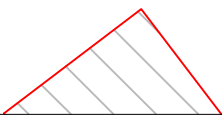
SITE VICINITY MAP

PROJECT MANAGER:	APPROVED:	DESIGNED:	SCALE:	REVISION:	FIGURE:
D. Filler	A. Dimitriou	A. Dimitriou	1" = 2100'	0	1
PROJECT NO.:	DRAWN:	DATE:	FILE:		
004.0184.00001	S. Swenson	Dec. 2004	markair_rpt04_fig1		



LEGEND

- Former Excavation Boundary
- - - - - Former UST Location
- WP-# Well Point Location – 20 feet in depth
- WP-#N Nested Well Point Location – 15, 25, 35 feet in depth
- MW-# Monitoring Well Location – 20 feet in depth
- MW-# Historic Monitoring Well Location (approximate)



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 SLR International Corp.

CLIENT:
 Alaska Department of Transportation

FORMER MARK AIR FACILITIES
 FORMER WEAVER BROTHERS BUILDING
 FAIRBANKS INTERNATIONAL AIRPORT

WEAVER BROTHERS FACILITY SITE PLAN

PROJECT MANAGER: D. Filler	APPROVED: A. Dimitriou	DESIGNED: A. Dimitriou	SCALE: 1" = 80'	REVISION: 0	FIGURE: 2
PROJECT NO.: 004.0184.00001	DRAWN: S. Swenson	DATE: Dec. 2004	FILE: markair_rpt04_fig2		

MW-9



WP-3
SOIL DATA (mg/kg):
 From 7 ft bgs
 DRO: 7450
WATER DATA (mg/L):
 Lead: 0.0198

MW-8
SOIL DATA (mg/kg):
 From 10 ft bgs
 Benzene: 0.376
WATER DATA (mg/L):
 DRO: 1.97
 GRO: 20.90
 Benzene: 3.860
 Ethylbenzene: 1.410
 EDC: 0.0324

MW-8



WP-1
SOIL DATA (mg/kg):
 From 11 ft bgs
 GRO: 1020
 Benzene: 0.574
 Toluene: 12.4
 Ethylbenzene: 14.8
WATER DATA (mg/L):
 GRO: 2.370
 Benzene: 0.00723

WP-2
SOIL DATA (mg/kg):
 From 11 ft bgs
 GRO: 2720
 Benzene: 29.2
 Toluene: 138
 Ethylbenzene: 56.9
 Xylenes: 230
WATER DATA (mg/L):
 DRO: 1.96
 Benzene: 1.60
 Toluene: 5.59
 Ethylbenzene: 0.846

FORMER UST 4
UNLEADED GASOLINE
2,000 GALLON CAPACITY

FORMER UST 3
UNLEADED GASOLINE
5,000 GALLON CAPACITY

FORMER UST 2
DIESEL
10,000 GALLON CAPACITY

FORMER UST 1
DIESEL
10,000 GALLON CAPACITY

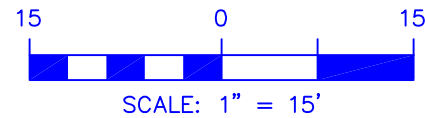
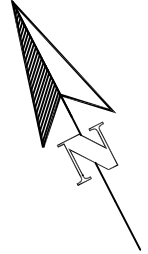
FORMER CONCRETE PAD
AND SUMP
LOCATION

WEAVER BROTHERS BUILDING

LEGEND

- Former Excavation Boundary
- - - Former UST Location
- WP-# Well Point Location
- ⊕ MW-# Monitoring Well Location
- DRO Diesel-range organics
- GRO Gasoline-range organics
- EDB 1,2-Dibromoethane
- EDC 1,2-Dichloroethane
- mg/L Milligrams per liter
- mg/kg Milligrams per kilogram
- ft bgs Feet below ground surface

NOTE: Only analytes detected above the ADEC regulatory criteria are presented.



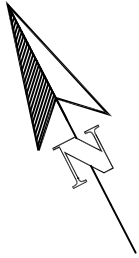

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FORMER MARK AIR FACILITIES
 FORMER WEAVER BROTHERS BUILDING
 FAIRBANKS INTERNATIONAL AIRPORT

FORMER USTS 1,2,3,4 AND DISPENSER ISLAND

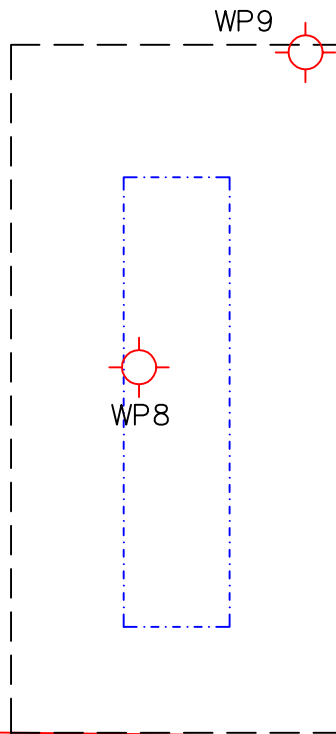
CLIENT:
 ALASKA DEPARTMENT OF TRANSPORTATION

PROJECT MANAGER: D. Filler	APPROVED: A. Dimitriou	DESIGNED: S. Swenson	SCALE: 1" = 15 feet	REVISION: 0	FIGURE: 3
PROJECT NO.: 004.0184.00001	DRAWN: S. Swenson	DATE: Dec. 2004	FILE: markair_rpt04_fig3-5		



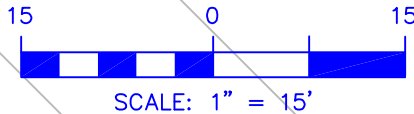
LEGEND

- — Former Excavation Boundary
- - - Former UST Location
- WP-# Well Point Location
- MW-# Monitoring Well Location



NOTE: No analytes were detected above the ADEC regulatory criteria in either soil or water at this location.

WEAVER BROTHERS BUILDING



FORMER MARK AIR FACILITIES
FORMER WEAVER BROTHERS BUILDING
FAIRBANKS INTERNATIONAL AIRPORT

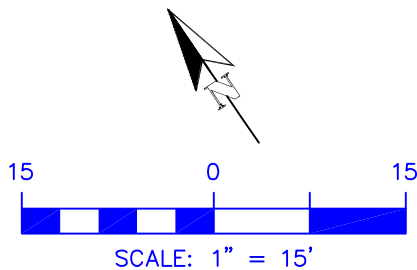
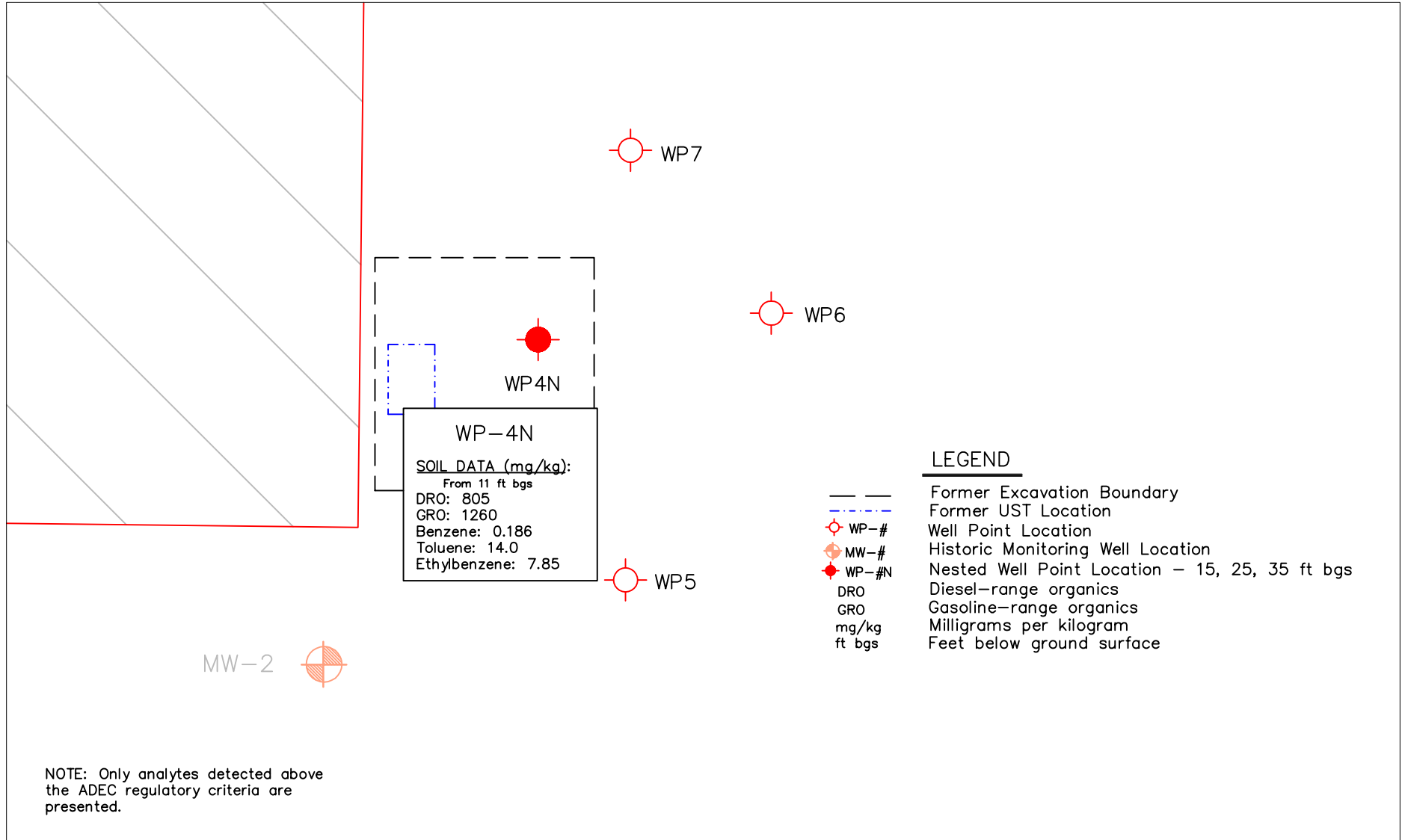
FORMER UST 16 SITE DETAIL



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CLIENT:
AK DEPARTMENT OF TRANSPORTATION

PROJECT MANAGER: D. Filler	APPROVED: A. Dimitriou	DESIGNED: S. Swenson	SCALE: 1" = 15 feet	REVISION: 0	FIGURE: 4
PROJECT NO.: 004.0184.00001	DRAWN: S. Swenson	DATE: Dec. 2004	FILE: markair_rpt04_fig3-5		



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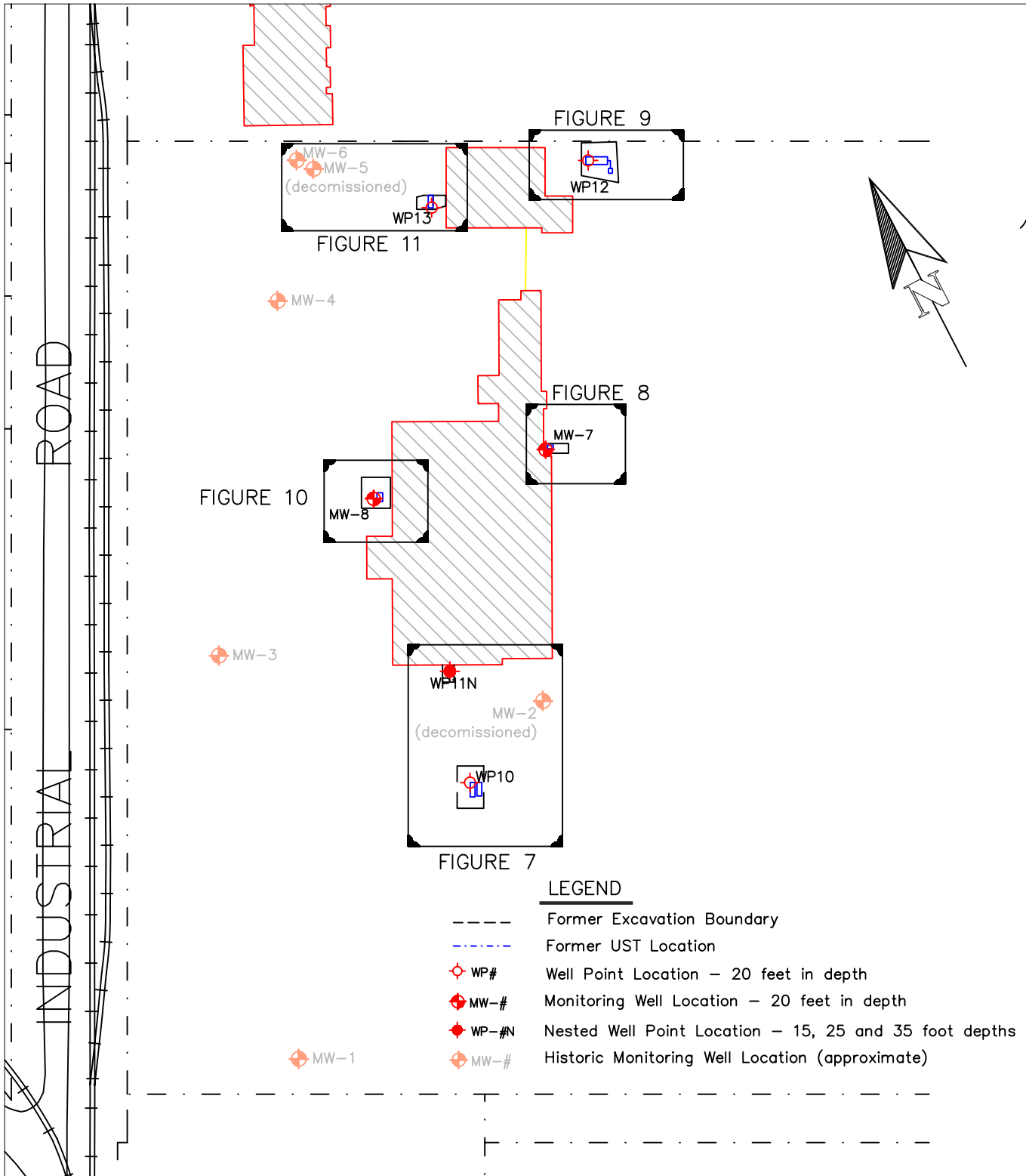
3522 International Street
 Fairbanks, AK 99708
 (907)455-9005 Fax (907)455-9015
 SLR International Corp.

CLIENT:
 Alaska Department of Transportation

FORMER MARK AIR FACILITIES
 FORMER WEAVER BROTHERS BUILDING
 FAIRBANKS INTERNATIONAL AIRPORT

FORMER UST 8 SITE DETAIL

PROJECT MANAGER:	APPROVED:	DESIGNED:	SCALE:	REVISION:	FIGURE:
D. Filler	A. Dimitriou	S. Swenson	1" = 15 feet	0	5
PROJECT NO.:	DRAWN:	DATE:	FILE:		
004.0184.00001	S. Swenson	Dec. 2004	markair_rpt04_fig3-5		



LEGEND

- Former Excavation Boundary
- Former UST Location
- ◊ WP# Well Point Location – 20 feet in depth
- ◊ MW-# Monitoring Well Location – 20 feet in depth
- ◊ WP-#N Nested Well Point Location – 15, 25 and 35 foot depths
- ◊ MW-# Historic Monitoring Well Location (approximate)



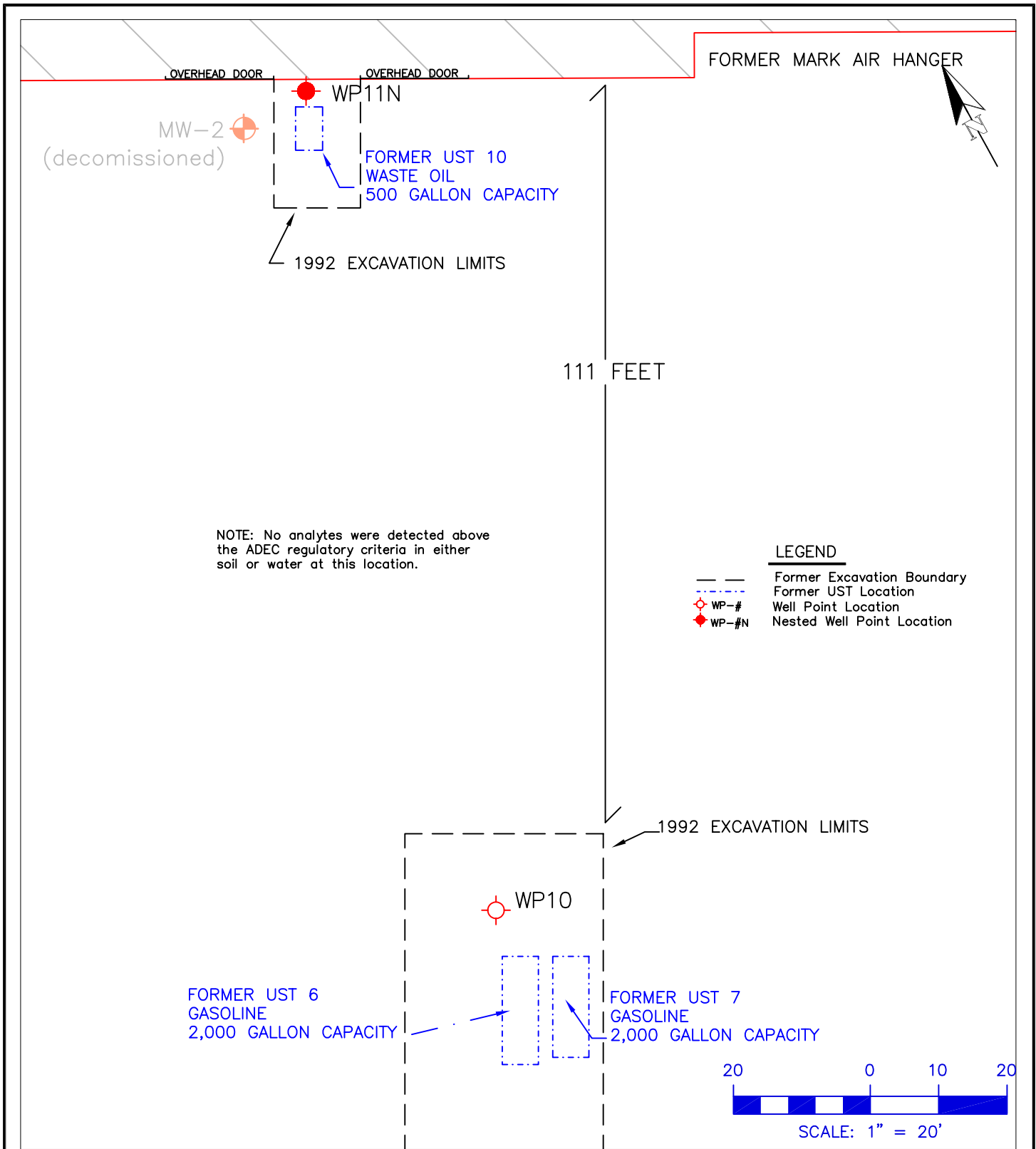
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FORMER MARK AIR FACILITIES
 FORMER MARK AIR HANGER
 FAIRBANKS INTERNATIONAL AIRPORT

FORMER HANGER FACILITY SITE PLAN

CLIENT:
 AK DEPARTMENT OF TRANSPORTATION

PROJECT MANAGER: D. Filler	APPROVED: A. Dimitriou	DESIGNED: A. Dimitriou	SCALE: 1" = 150 feet	REVISION: 0	FIGURE: 6
PROJECT NO.: 004.0184.00001	DRAWN: S. Swenson	DATE: Dec. 2004	FILE: markair_rpt04_fig6		

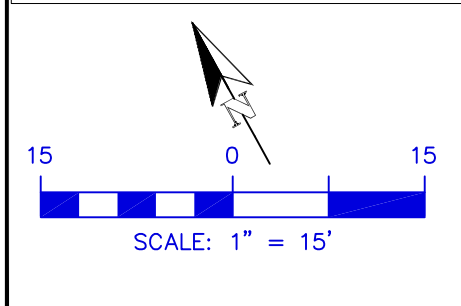
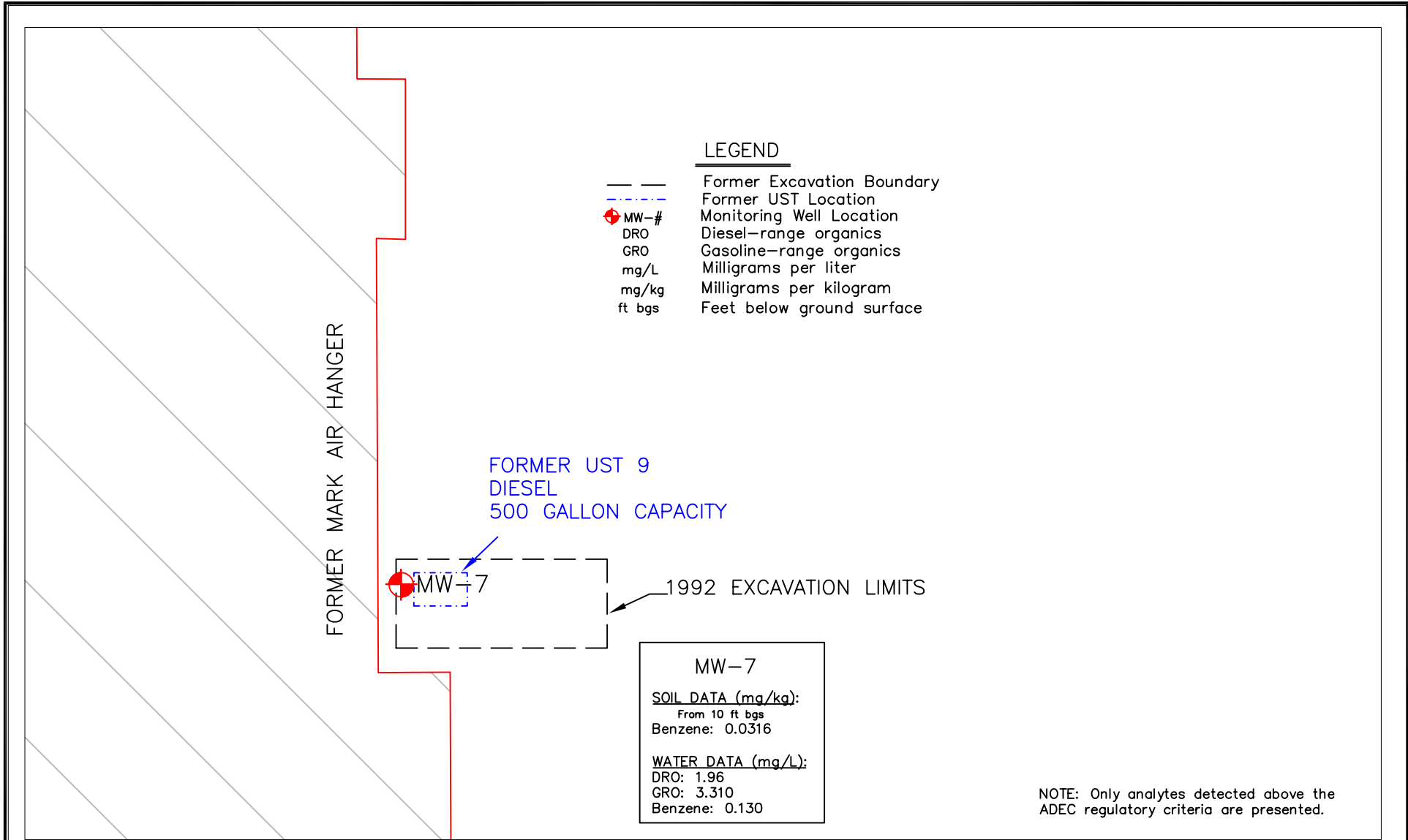


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FORMER MARK AIR FACILITIES
 FORMER MARK AIR HANGER
 FAIRBANKS INTERNATIONAL AIRPORT

FORMER USTs 6,7,10 SITE DETAIL

CLIENT: AK DEPARTMENT OF TRANSPORTATION	PROJECT MANAGER: D. Filler	APPROVED: A. Dimitriou	DESIGNED: S. Swenson	SCALE: 1" = 20 feet	REVISION: 0	FIGURE: 7
	PROJECT NO.: 004.0184.00001	DRAWN: S. Swenson	DATE: Dec. 2004	FILE: markair_rpt04_fig7-11		



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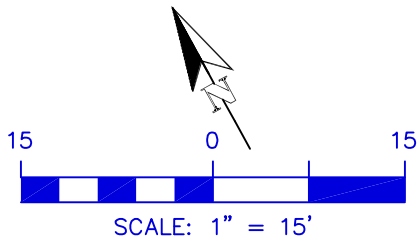
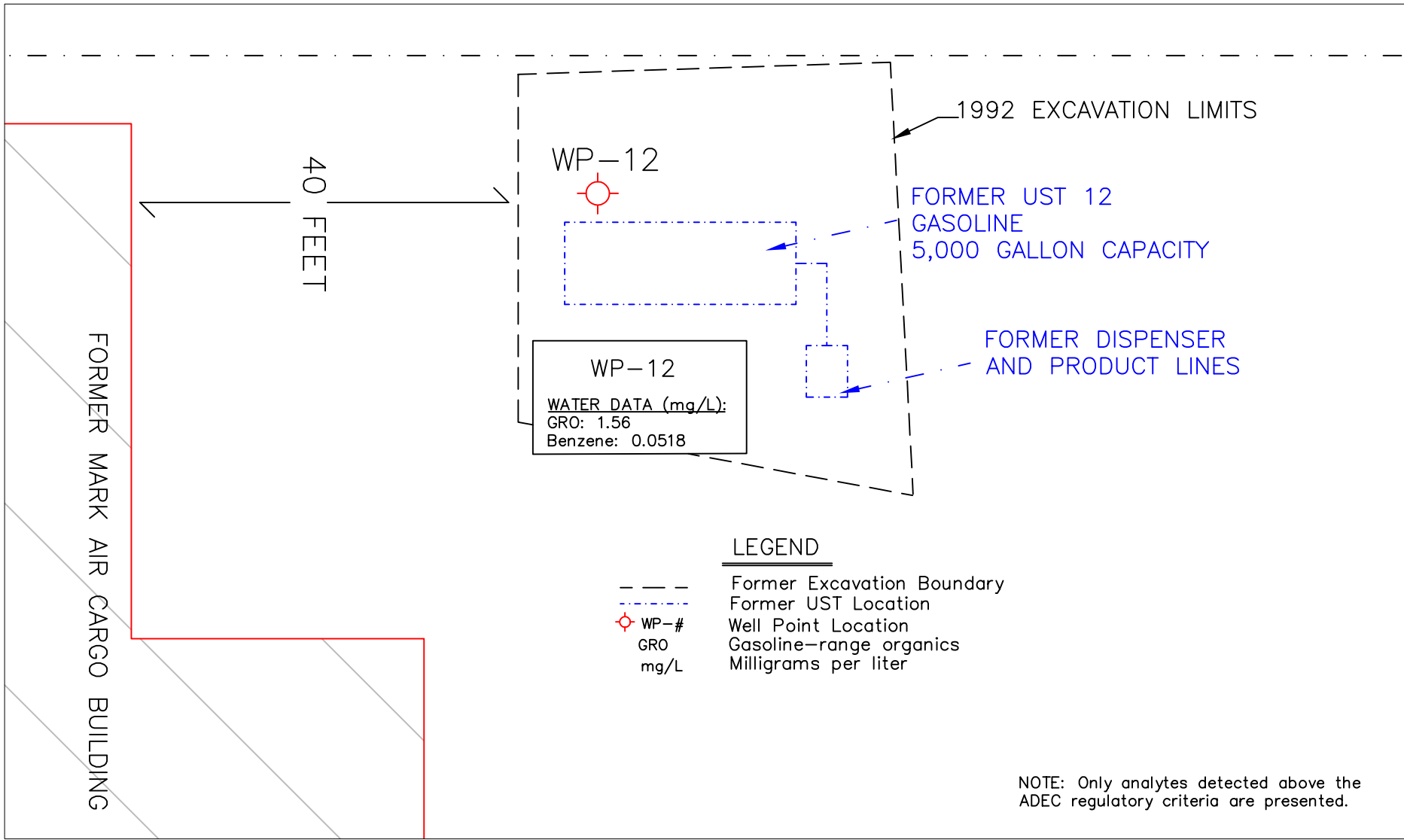
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CLIENT:
Alaska Department of Transportation

FORMER MARK AIR FACILITIES
FORMER MARK AIR HANGER
FAIRBANKS INTERNATIONAL AIRPORT

FORMER UST 9 SITE DETAIL

PROJECT MANAGER: D. Filler	APPROVED: A. Dimitriou	DESIGNED: S. Swenson	SCALE: 1" = 15 feet	REVISION: 0	FIGURE: 8
PROJECT NO.: 004.0184.00001	DRAWN: S. Swenson	DATE: Dec. 2004	FILE: markair_rpt04_fig7-11		



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CLIENT:
Alaska Department of Transportation

FORMER MARK AIR FACILITIES
FORMER MARK AIR CARGO BUILDING
FAIRBANKS INTERNATIONAL AIRPORT

FORMER UST 12 SITE DETAIL

PROJECT MANAGER:	APPROVED:	DESIGNED:	SCALE:	REVISION:	FIGURE:
D. Filler	A. Dimitriou	S. Swenson	1" = 15 feet	0	9
PROJECT NO.:	DRAWN:	DATE:	FILE:		
004.0184.00001	S. Swenson	Dec. 2004	markair_rpt04_fig9		

- LEGEND**
- Former Excavation Boundary
 - - - Former UST Location
 - ⊕ MW-# Monitoring Well Location
 - DRO Diesel-range organics
 - GRO Gasoline-range organics
 - mg/L Milligrams per liter

1992 EXCAVATION LIMITS

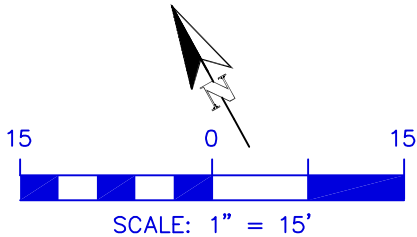
FORMER UST 13
DIESEL
5,000 GALLON CAPACITY

MW-8
WATER DATA (mg/L):
DRO: 1.54
GRO: 2.200
Benzene: 0.0515

30 FEET

FORMER MARK AIR HANGER

NOTES: Well MW-8 was sampled on 10-15-04 and 11-02-04. The highest concentrations are reported here.
Only analytes detected above the ADEC regulatory criteria are presented.



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CLIENT:
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FORMER MARK AIR FACILITIES
FORMER MARK AIR HANGER
FAIRBANKS INTERNATIONAL AIRPORT

FORMER UST 13 SITE DETAIL

PROJECT MANAGER:	APPROVED:	DESIGNED:	SCALE:	REVISION:	FIGURE:
D. Filler	A. Dimitriou	S. Swenson	1" = 15 feet	0	10
PROJECT NO.:	DRAWN:	DATE:	FILE:		
004.0184.00001	S. Swenson	Dec. 2004	markair_rpt04_fig7-11		

MW-6

MW-5
(decommissioned)

LEGEND

- Former Excavation Boundary
- - - Former UST Location
- ⊕ WP-# Well Point Location
- ⊕ MW-# Historic Monitoring Well Location (approximate)
- DRO Diesel-range organics
- mg/L Milligrams per liter

FORMER UST 15
HEATING OIL
1,500 - 2,000 GALLON CAPACITY

RETAINING WALL

WP-13

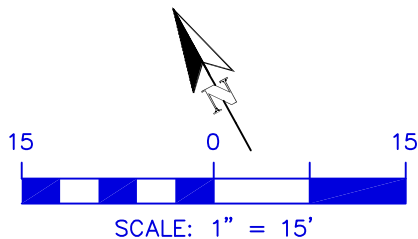
1992 EXCAVATION LIMITS

WP-13
WATER DATA (mg/L):
DRO: 4.87

FORMER MARK AIR CARGO BUILDING

OVERHEAD DOOR

NOTE: Only analytes detected above the ADEC regulatory criteria are presented.



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FORMER MARK AIR FACILITIES
FORMER MARK AIR CARGO BUILDING
FAIRBANKS INTERNATIONAL AIRPORT

FORMER UST 15 SITE DETAIL

PROJECT MANAGER: D. Filler	APPROVED: A. Dimitriou	DESIGNED: S. Swenson	SCALE: 1" = 15 feet	REVISION: 0	FIGURE: 11
PROJECT NO.: 004.0184.00001	DRAWN: S. Swenson	DATE: Dec. 2004	FILE: markair_rpt04_fig7-11		

TABLES

**TABLE 1A
FIELD DATA & ANALYTICAL PROGRAM (SOIL)
FORMER MARK AIR FACILITIES**

Site	Location	Borehole ID	Media	Borehole Depth (fbgs)	Sample Depth (fbgs)	Est. DTGW (fbgs) ¹	PID (ppm)	BTEX	GRO	DRO	RRO	VOC	PAH	LEAD
								EPA 8021B	AK101	AK102	AK103	EPA 8260B	8270C-SIM	EPA 6020
Weaver Bros.	Former UST 1	WP-2	soil	15	11	11.5	427	X	X					
	Former UST 2													
	Former UST 3	WP-1	soil	15	11	11	457	X	X			X	X	
	Former UST 4													
	Former Dispenser Island	WP-3	soil	15	7	10.5	143	X	X	X			X	X
		WP-4A									QA/QC dup			
	Former UST 8	WP-5	soil	15	10.5	11	1.2		X	X	X	X		
		WP-6	soil	15	10	11	3.1		X	X	X	X		
		WP-7	soil	15	10	11	0.8		X	X	X	X		
		WP-4N	soil	35	11	11	422		X	X	X	X	X	
		WP-3A	QA/QC dup						X	X	X	X	X	
		WP-8	soil	15	11	11.5	1.8	X		X			X	
	Former UST 16	WP-9	soil	15	11	11.5	0.6	X		X				
		WP-2A	QA/QC dup					X						
Downgradient of USTs 1-4	MW-8	soil	20	10	11	56.2	X	X	X	X				
	MW-9	soil	18	12	10.5	1.1 0.7							not sampled	
Mark Air Hanger	Former UST 6	WP-10	soil	15	5	12	2.1							
	Former UST 7				11	4.4					not sampled			
	Former UST 9	MW-7	soil	20	11	12	30.8	X		X		X		
	Former UST 10	WP-11N	soil	35	7 12	12	3.2 0.5						not sampled	
	Former UST 12	WP-12	soil	15	6 12	12	2.1 250						not sampled	
	Former UST 13	MW-8	soil	20	13	13	4.9	X		X			X	
		MW-1A	QA/QC dup					X		X			X	
Former UST 15	WP-13	soil	20	12	12	3.7	X		X			X		

Notes:

¹ Estimated on day of drilling

Abbreviations:

DRO: diesel range organics
 GRO: gasoline range organics
 RRO: residual range organics
 BTEX: benzene, ethylbenzene, toluene, and xylenes
 PAH: polynuclear aromatic hydrocarbons
 VOC: volatile organic compounds

ADEC: Alaska Department of Environmental Conservation
 EPA: Environmental Protection Agency of the United States
 PID: photoionization detector
 DTGW - depth to groundwater.
 fbgs - feet below ground surface
 ppm: parts per million

**TABLE 1B
ANALYTICAL PROGRAM (GROUND WATER)
FORMER MARK AIR FACILITIES**

Site	Location	Well or Well Point ID	Media	BTEX	GRO	DRO	RRO	VOC (EDC incl.)	PAH	LEAD	EDB	
				EPA 8021B	AK101	AK102	AK103	EPA 8260B	8270C-SIM	EPA 6020	EPA 8011	
Weaver Bros.	Former UST 1	WP-2	water	X		X						
	Former UST 2		water									
	Former UST 3	WP-1	water		X			X	X	X	X	
	Former UST 4	WP-3A	QA/QC dup		X			X	X	X	X	
	Former Dispenser Island	WP-3	water	X	X	X					X	X
		WP-5	water		X	X	X		X			
	Former UST 8	WP-6	water		X	X	X		X			
		WP-7	water		X	X	X		X			
		WP-4N (15)	NS						Dry			
		WP-4N (25)	water		X	X	X		X	X		
		WP-2A	QA/QC dup		X	X	X					
	Former UST 16	WP-4N (35)	water						X			
		WP-8	water	X	X	X				X		
		WP-9	water	X	X	X						
	Downgradient of USTs 1-4	MW-8	water	X	X	X			X	X	X	X
MW-9		water	X			X						
WP-1A		QA/QC dup	X		X							
MW-2		water		X	X			X		X		
Mark Air Hanger	Former UST 6 Former UST 7	WP-10	water	X	X	X			X			
			water	X	X	X		X				
	Former UST 9	MW-7	water	X	X	X			X			
		MW-7A	QA/QC dup			X						
	Former UST 10	WP-11N(15)	NS						Dry			
		WP-11N(25)	water		X	X			X	X	X	
		WP-11N (35)	water		X	X			X	X	X	
	Former UST 12	WP-11A	QA/QC dup						X			
		WP-12	water	X	X				X			
	Former UST 13	MW-8	water	X	X	X			X			
		MW-12	QA/QC dup	X	X				X			
	Former UST 15	WP-13	water	X		X			X			
		MW-1	water	X		X	X		X		X	
		MW-3	water	X		X	X		X		X	
		MW-6	water	X		X	X		X		X	
	MW-10	QA/QC dup	X			X				X		

Abbreviations:

DRO: diesel range organics
GRO: gasoline range organics
RRO: residual range organics
BTEX: benzene, ethylbenzene, toluene, and xylenes

PAH: polynuclear aromatic hydrocarbons
VOC: volatile organic compounds
ADEC: Alaska Department of Environmental Conservation
EPA: Environmental Protection Agency of the United States

PID: photoionization detector
DTGW - depth to groundwater.
fbgs - feet below ground surface
ppm: parts per million

TABLE 2
SUMMARY OF SOIL RESULTS
FORMER WEAVER BROTHERS FACILITY
(concentrations in mg/kg dry soil)

Sample Identification	Date Sampled	Sample Depth (fbgs)	DRO AK 102	RRO AK 103	GRO AK 101	BTEX EPA Method 8021B				Polynuclear Aromatic Hydrocarbons ¹ Method 8270C-SIM						
						Benzene	Toluene	Ethylbenzene	Xylenes	1-Methylnaphthalene	2-Methylnaphthalene	Fluorene	Naphthalene	Chrysene	Benzo (k) fluoranthene	Pyrene
ADEC Soil Cleanup Level			250	11000	300	0.02	5.4	5.5	78	43	60.9	270	21	620	200	1500
WP-1-11	10/6/2004	11	NA	NA	1020	0.574	12.4	14.8	59.7	8.40	11.9	ND	7.85	ND	ND	ND
WP-2-11	10/6/2004	11	NA	NA	2720	29.2	138	56.9	230	NA	NA	NA	NA	NA	NA	NA
WP-8-11	10/6/2004	11	ND	NA	NA	0.0187	0.0638	ND	ND	ND	ND	ND	ND	ND	ND	ND
WP-9-11	10/6/2004	11	55.4	NA	NA	0.0195	0.0569	ND	ND	NA	NA	NA	NA	NA	NA	NA
WP-2A-10	dup. of WP-9-11		NA	NA	NA	0.0141	0.0563	ND	ND	NA	NA	NA	NA	NA	NA	NA
WP-4M-11	10/7/2004	11	805	962	1260	NA	NA	NA	NA	8.39	10.9	0.304	6.95	ND	ND	ND
WP-3A-10	dup. of WP-4M-11		1240	1590	1400	NA	NA	NA	NA	14.5	18.8	0.543	11.6	ND	ND	ND
WP-6-10	10/7/2004	10	13.4	147	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-5-10.5	10/7/2004	10.5	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-7-10	10/7/2004	10	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8-WB-10	10/8/2004	10	ND	ND	4.98	0.376	ND	0.189	0.613	NA	NA	NA	NA	NA	NA	NA
WP-3-7	10/8/2004	7	7450	NA	175	ND	ND	ND	4.41	ND	ND	ND	ND	0.0135	0.0157	0.0440
WP-4A-10	dup. of WP-3-7		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations:

ADEC: Alaska Department of Environmental Conservation
DRO: diesel range organics
GRO: gasoline range organics
RRO: residual range organics
BTEX: benzene, ethylbenzene, toluene, and xylenes
VOC: volatile organic compounds

SIM: selective ion monitoring
mg/kg: milligrams per kilogram
NA: not analyzed
ND: not detected
EPA: Environmental Protection Agency

TABLE 2 (continued)
SUMMARY OF SOIL RESULTS
FORMER WEAVER BROTHERS FACILITY
(concentrations in mg/kg dry soil)

Sample Identification	Date Sampled	Sample Depth (fbgs)	Volatile Organic Compounds ² EPA Method 8260B										Lead EPA Method 6020	
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	1,2-Dichloroethane (EDC)	Isopropylbenzene	Benzene	Toluene	Ethylbenzene	Xylenes	other VOCs ³		
ADEC Soil Cleanup Level			95.2	25	21	0.6	227	0.02	5.4	5.5	78	--	1000	
WP-1-11	10/6/2004	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.76
WP-2-11	10/6/2004	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-8-11	10/6/2004	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-9-11	10/6/2004	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-2A-10	dup. of WP-9-11		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-4M-11	10/7/2004	11	26.0	7.20	9.03	ND	2.31	0.186*	14.0*	7.85	57.3*	12.41	NA	
WP-3A-10	dup. of WP-4N-11		28.7	9.75	10.4	ND	2.49	0.134	15.8	8.70	58.8	14.07	NA	
WP-6-10	10/7/2004	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	
WP-5-10.5	10/7/2004	10.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	
WP-7-10	10/7/2004	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	
MW-8-WB-10	10/8/2004	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
WP-3-7	10/8/2004	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.25	
WP-4A-10	dup. of WP-3-7		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.5	

Notes:

¹Only those PAH analytes detected above reporting limits are listed here.

²Only VOCs detected above reporting limits IN more than one sample are listed.

³Sum of other trace VOCs detected; no individual analyte was detected above ADEC cleanup or EPA guidance criteria.

*Represents highest value detected with increased dilution.

ND indicates not detected above reporting limit. Reporting limit below applicable water quality criteria.

Sample WP-4M-11 collected from borehole WP-4N.

Abbreviations:

ADEC: Alaska Department of Environmental Conservation

DRO: diesel range organics

GRO: gasoline range organics

RRO: residual range organics

BTEX: benzene, ethylbenzene, toluene, and xylenes

VOC: volatile organic compounds

SIM: selective ion monitoring

mg/kg: milligrams per kilogram

NA: not analyzed

ND: not detected

EPA: Environmental Protection Agency

TABLE 3
SUMMARY OF SOIL RESULTS
FORMER MARK AIR HANGAR FACILITY
(concentrations in mg/kg dry soil)

Sample Identification	Date Sampled	Sample Depth (fbgs)	DRO AK 102	RRO AK 103	GRO AK 101	BTEX EPA Method 8021B				Volatile Organic Compounds EPA Method 8260B	Lead EPA Method 6020
						Benzene	Toluene	Ethylbenzene	Xylenes		
ADEC Soil Cleanup Level			250	11000	300	0.02	5.4	5.5	78	--	1000
MW-7-10	10/5/2004	10	12.6	NA	NA	0.0316	0.0949	0.871	5.98	NA	NA
MW-8-13	10/5/2004	13	ND	NA	NA	0.0189	0.0686	ND	0.292	NA	NA
MW-1A-10	dup. of MW-8-13		ND	NA	NA	0.0164	ND	ND	0.300	NA	NA
WP-13-12	10/4/2004	12	13.7	NA	NA	ND	ND	ND	ND	NA	NA

Abbreviations:

ADEC: Alaska Department of Environmental Conservation
DRO: diesel range organics
GRO: gasoline range organics
RRO: residual range organics
BTEX: benzene, ethylbenzene, toluene, and xylenes
VOC: volatile organic compounds

SIM: selective ion monitoring
mg/kg: milligrams per kilogram
NA: not analyzed
ND: not detected
--: not applicable

TABLE 3 (continued)
SUMMARY OF SOIL RESULTS
FORMER MARK AIR HANGAR FACILITY
 (concentrations in mg/kg dry soil)

Sample Identification	Date Sampled	Sample Depth (fbgs)	Polynuclear Aromatic Hydrocarbons ¹ Method 8270C-SIM															
			1-Methylnaphthalene	2-Methylnaphthalene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
ADEC Soil Cleanup Level			43	60.9	4300	6	3	20	1500	200	620	6	2100	270	11	21	4300	1500
MW-7-10	10/5/2004	10	0.598	0.700	ND	0.0114	ND	0.0211	0.0273	0.0185	ND	0.0246	ND	ND	0.0252	0.755	0.0153	ND
MW-8-13	10/5/2004	13	0.0121	0.0139	ND	ND	ND	ND	0.0264	0.0183	ND	0.0230	ND	ND	0.0246	0.0138	0.0132	ND
MW-1A-10	dup. of MW-8-13		0.0244	0.0275	ND	ND	ND	0.0198	0.0262	0.0179	ND	0.0233	ND	ND	0.0243	0.0269	0.0145	ND
WP-13-12	10/4/2004	12	ND	ND	0.0180	0.0309	0.0299	0.0367	0.0418	0.0280	0.0360	0.0258	0.0670	ND	0.0348	ND	0.0651	0.0734

Notes:

¹Only those PAH analytes detected above reporting limits are listed.

ND indicates not detected above reporting limit. Reporting limit below applicable criteria.

Abbreviations:

ADEC: Alaska Department of Environmental Conservation

DRO: diesel range organics

GRO: gasoline range organics

RRO: residual range organics

--: Not Applicable

BTEX: benzene, ethylbenzene, toluene, and xylenes

PAH: polynuclear aromatic hydrocarbons

mg/kg: milligrams per kilogram

NA: not analyzed

ND: not detected

**TABLE 4
SUMMARY OF GROUND WATER RESULTS
FORMER WEAVER BROTHERS FACILITY
(concentrations in mg/L)**

Sample Identification	Date Sampled	DRO AK 102	RRO AK 103	GRO AK 101	BTEX EPA Method 8021B				Polynuclear Aromatic Hydrocarbons ¹ Method 8270C-SIM							
					Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Benzo (a) anthracene	Fluorene	Phenanthrene	Pyrene	Acenaphthylene
ADEC Ground Water Cleanup Level		1.5	1.1	1.3	0.005	1	0.7	10	1.46	1.5	0.78	0.001	1.46	11	1.1	2.2
WP-1	10/13/2004	NA	NA	2.370	NA	NA	NA	NA	0.0368	0.0268	0.0305	0.000346	0.000285	0.000135	ND	ND
WP-3A	dup. of WP-1	NA	NA	2.270	NA	NA	NA	NA	0.0383	0.0289	0.0334	ND	0.000304	ND	0.000208	ND
WP-2	10/13/2004	1.96	NA	NA	1.60	5.59	0.846	3.95	NA	NA	NA	NA	NA	NA	NA	NA
WP-3	10/13/2004	1.48	NA	0.405	0.000299	0.00278	0.00313	0.00894	NA	NA	NA	NA	NA	NA	NA	NA
WP-4N (15)	NS	Dry														
WP-4N (25)	10/13/2004	0.734	ND	0.0621	NA	NA	NA	NA	0.000162	0.000223	0.000213	ND	ND	ND	ND	0.000371
WP-2A	dup. of WP-4N(25)	0.630	ND	0.068	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-4N (35)	10/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-5	10/14/2004	0.290	0.229**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-6	10/13/2004	0.103	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-7	10/14/2004	0.077**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-8	10/13/2004	ND	NA	ND	0.000733	0.00465	0.00074	0.00379	ND	ND	ND	ND	ND	ND	ND	ND
WP-9	10/13/2004	ND	NA	ND	0.000548	0.0034	0.000632	0.00331	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	10/13/2004	1.97	NA	20.90	3.860	0.0517	1.410	4.080	0.228	0.0352	0.0397	ND	ND	ND	ND	ND
MW-9	10/13/2004	NA	ND	NA	0.00458	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
WP-1A	dup. of MW-9	ND		NA	0.00449	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	10/14/2004	0.409	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	10/13/2004	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	10/13/2004	0.477	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations:

ADEC: Alaska Department of Environmental Conservation
DRO: diesel range organics
GRO: gasoline range organics
RRO: residual range organics

BTEX: benzene, ethylbenzene, toluene, and xylenes
PAH: polynuclear aromatic hydrocarbons
mg/kg: milligrams per kilogram
NA: not analyzed
ND: not detected

**TABLE 4 (continued)
SUMMARY OF GROUND WATER RESULTS
FORMER WEAVER BROTHERS FACILITY
(concentrations in mg/L)**

Sample Identification	Date Sampled	Volatile Organic Compounds ² EPA Method 8260B													Lead EPA Method 6020
		Isopropylbenzene	Naphthalene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Butanone (MEK)	1,2-Dichloroethane (EDC)	1,2-Dibromoethane (EDB)	Benzene	Toluene	Ethylbenzene	Xylenes	other VOCs ³	
ADEC Ground Water Cleanup Level		3.65	0.7	1.3 (EPA)	1.85	1.85	22	0.005	0.00005⁵	0.005	1	0.7	10	--	0.015
WP-1	10/13/2004	0.0235	0.0543	0.00371	0.248**	0.0649**	ND	ND	ND[0.00001] ⁴	0.00723	0.0584	0.0883	0.442**	0.08791	ND
WP-3A	dup. of WP-1	0.024*	0.0526*	0.00431	0.238**	0.0696**	ND	ND	ND[0.00001] ⁴	0.00714	0.0584	0.0864**	0.437**	0.07976	ND
WP-2	10/13/2004	ND	ND	ND	ND	ND	ND	ND	ND[0.0001]	ND	ND	ND	ND	ND	NA
WP-3	10/13/2004	NA	NA	NA	NA	NA	NA	NA	ND[0.00001] ⁴	NA	NA	NA	NA	NA	0.0198
WP-4N (15)	NS	Dry													
WP-4N (25)	10/13/2004	ND	ND	ND	ND	ND	ND	ND	ND[0.0001]	ND	0.00686	0.00129	0.00699	0.00340	NA
WP-2A	dup. of WP-4N(25)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-4N (35)	10/13/2004	ND	ND	ND	ND	ND	ND	ND	ND[0.0001]	ND	0.00467	ND	0.00382	ND	NA
WP-5	10/14/2004	ND	ND	0.00231	0.00106	ND	ND	ND	ND[0.0001]	ND	0.00210	ND	0.00253	ND	ND
WP-6	10/13/2004	ND	ND	0.0274	ND	ND	ND	ND	ND[0.0001]	ND	0.00276	ND	ND	ND	NA
WP-7***	10/14/2004	ND	ND	0.0220	ND	ND	ND	ND	ND[0.0001]	ND	ND	ND	ND	ND	NA
WP-8	10/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-9	10/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	10/13/2004	0.115	0.377	ND	0.916*	0.256	0.0162	0.0324	0.0000543[0.00005]⁴	3.560*	0.0844**	1.370*	3.753*	0.3095	0.00143
MW-9	10/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-1A	dup. of MW-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	10/14/2004	ND	ND	ND	ND	ND	ND	ND	ND[0.0001]	ND	ND	ND	ND	ND	ND
MW-3	10/13/2004	ND	ND	ND	ND	ND	ND	ND	ND[0.0001]	ND	ND	ND	ND	ND	ND
MW-4	10/13/2004	0.00134	ND	ND	ND	ND	ND	ND	ND[0.0001]	ND	ND	ND	ND	ND	ND

Notes:

- ¹Only those PAH analytes detected above reporting limits are listed.
- ²Only VOCs detected above reporting limits are listed.
- ³Sum of other trace VOCs detected; no individual analyte was detected
- ⁴MRL resulting from use of USEPA Method 8011
- ⁵ADEC Tech Memo 01-007 11/24/2003
above ADEC cleanup or EPA guidance criteria.
- *Represents highest value detected with increased dilution.
- **Estimated value.
- ***Results biased low; sample analyzed outside recommended holding time for samples > pH 2
- ND indicates not detected above reporting limit or method detection limit (MDL).
Reporting limits and/or MDLs below applicable water quality criteria.
- ND[###] indicates not detected above reporting limit in brackets.

Abbreviations:

- ADEC: Alaska Department of Environmental Conservation
- DRO: diesel range organics
- GRO: gasoline range organics
- RRO: residual range organics
- BTEX: benzene, ethylbenzene, toluene, and xylenes
- PAH: polynuclear aromatic hydrocarbons
- VOC: volatile organic compounds
- EPA: Environmental Protection Agency Region 9 PRG, October 2004
- mg/L: milligrams per liter

- NA: not analyzed
- ND: not detected
- NS: not sampled

TABLE 5
SUMMARY OF GROUND WATER RESULTS
FORMER MARK AIR HANGAR FACILITY
(concentrations in mg/L)

Sample Identification	Date Sampled	DRO AK 102	RRO AK 103	GRO AK 101	BTEX EPA Method 8021B				Polynuclear Aromatic Hydrocarbons ¹ Method 8270C-SIM						
					Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Benzo (a) anthracene	Fluorene	Acenaphthylene	Chrysene
ADEC Ground Water Cleanup Level		1.5	1.1	1.3	0.005	1	0.7	10	1.46	1.5	0.78	0.001	1.46	2.2	0.1
WP-10	10/15/2004	1.36	NA	0.178	0.00199	0.00138	ND	0.020	0.00534	0.00716	0.00578	ND	0.000169	0.000141*	ND
MW-7	10/15/2004	1.96	NA	3.310	0.130	0.0233	0.305	0.934	0.207	0.0563	0.0659	ND	ND	ND	ND
MW-7A	dup. of MW-7	2.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-11N (15)	NS				Dry										
WP-11N (B)	10/15/2004	1.47	NA	ND	NA	NA	NA	NA	0.000322	0.000146	0.000157	0.000129*	ND	ND	0.000112*
WP-11N (G)	10/15/2004	ND	NA	0.0753	NA	NA	NA	NA	0.000468	0.000192	0.000146	ND	ND	ND	ND
WP-11A	dup. of WP-11N(G)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-12	10/15/2004	NA	NA	1.56	0.0518	0.00451	0.174	0.0255	0.0175	0.00710	0.00170	ND	ND	0.000952*	ND
MW-8	10/15/2004	1.54	NA	NA	0.0515	0.0417	0.0904	1.030	0.115	0.0465	0.0363	ND	ND	ND	ND
MW-8	11/2/2004	NA	NA	2.200	0.018	0.01	0.679	0.550	0.0862	0.0416	0.0305	ND	0.000602	ND	ND
MW-12	dup. of MW-8	NA	NA	2.020	0.0158	0.00789	0.0638	0.498	0.0685	0.033	0.0225	ND	0.000482	ND	ND
WP-13	10/15/2004	4.87	NA	NA	0.000532	0.00208	0.0423	0.00995	0.043	0.00269	0.00285	ND	ND	0.000792*	ND
MW-1	10/15/2004	0.188**	ND	NA	ND	ND	0.000512	0.00148	NA	NA	NA	NA	NA	NA	NA
MW-3	10/15/2004	0.160**	ND	NA	ND	ND	0.000660	0.00170	NA	NA	NA	NA	NA	NA	NA
MW-6	10/15/2004	0.242**	ND	NA	ND	ND	0.000948	0.00373	NA	NA	NA	NA	NA	NA	NA
MW-6	11/2/2004	NA	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW-10	dup. of MW-6	NA	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

Abbreviations:

ADEC: Alaska Department of Environmental Conservation

DRO: diesel range organics

GRO: gasoline range organics

RRO: residual range organics

BTEX: benzene, ethylbenzene, toluene, and xylenes

PAH: polynuclear aromatic hydrocarbons

VOC: volatile organic compounds

mg/L: milligrams per liter

EPA: Environmental Protection Agency

NA: not analyzed

ND: not detected

NS: not sampled

TABLE 5 (continued)
SUMMARY OF GROUNDWATER RESULTS
FORMER MARK AIR HANGAR FACILITY
 (concentrations in mg/L)

Sample Identification	Date Sampled	Volatile Organic Compounds ² EPA Method 8260B													Lead EPA Method 6020
		Isopropylbenzene	Naphthalene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	Trichloroethene	Benzene	Toluene	Ethylbenzene	Xylenes	other VOCs ³	
ADEC Ground Water Cleanup Level		3.65	0.7	1.3 (EPA)	1.85	1.85	3.65	0.005	0.005	0.005	1	0.7	10	--	0.015
WP-10	10/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	10/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7A	dup. of MW-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-11N (15)	10/15/2004	NS	Dry												
WP-11N (B)	10/15/2004	ND	ND	ND	0.00111	ND	0.00114	ND	0.00241	ND	0.00184	0.00104	0.00283	ND	ND
WP-11N (G)	10/15/2004	ND	0.00310	ND	0.00344	0.00124	ND	ND	ND	ND	0.00595	0.00408	0.01316	0.00117	ND
WP-11A	dup. of WP-11N(G)	ND	0.00150	ND	0.00230	ND	ND	ND	ND	ND	0.00262	0.00216	0.00678	ND	NA
WP-12	10/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	10/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	11/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-12	dup. of MW-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WP-13	10/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	10/15/2004	ND	ND	ND	0.00122	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00241
MW-3	10/15/2004	ND	ND	0.0273	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	10/15/2004	ND	0.00104	ND	0.00121	ND	ND	ND	ND	ND	ND	ND	0.00341	ND	0.0232
MW-6	11/2/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00354
MW-10	dup. of MW-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00364

Notes:

- ¹Only those PAH analytes detected above reporting limits are listed.
- ²Only VOCs detected above reporting limits are listed.
- ³Sum of other trace VOCs detected; no individual analyte was detected above ADEC cleanup or EPA guidance criteria.
- *Represents highest value detected with increased dilution or from re-extraction outside holding time.
- **Estimated value.
- ND indicates not detected above reporting limit. Reporting limit below applicable water quality criteria.
- Sample WP-11N(B) collected from the 25-ft deep well point and WP-11N(G) from the 35-ft deep well point of this nested well.

Abbreviations:

- ADEC: Alaska Department of Environmental Conservation
- DRO: diesel range organics
- GRO: gasoline range organics
- RRO: residual range organics
- BTEX: benzene, ethylbenzene, toluene, and xylenes
- PAH: polynuclear aromatic hydrocarbons
- VOC: volatile organic compounds
- mg/L: milligrams per liter
- EPA: Environmental Protection Agency Region 9 PRG, October 2004
- NA: not analyzed
- ND: not detected
- NS: not sampled
- : not applicable

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND SLR QUALITY ASSURANCE REVIEW



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

07 December 2004

Andy Dimitriou
SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503
RE: FIA Former Mark Air Facilities

Enclosed are the results of analyses for samples received by the laboratory on 10/08/04 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager

CASE NARRATIVE for B4J0416

Client: SLR Alaska
Project Manager: Andy Dimitriou
Project Name: FIA Former Mark Air Facilities
Project Number: 004.0184.00001

1.0 DESCRIPTION OF CASE

Twelve (12) soil samples were submitted for the analysis of:

- Gasoline Range Hydrocarbons and BTEX by AK101/EPA 8021B
- Diesel Hydrocarbons and Heavy Oil by AK102 and AK103
- BTEX by EPA method 8021B
- Total Metals by EPA 6000/7000 Series Methods
- Volatile Organic Compounds by EPA Method 8260B
- Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received 8th October 2004 at a temperature of 5.3°C and logged in 12th October 2004.

3.0 PREPARATION AND ANALYSIS

Gasoline Range Hydrocarbons and BTEX by AK101/EPA 8021B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Diesel Hydrocarbons and Heavy Oil by AK102 and AK103

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

BTEX by EPA method 8021B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Total Metals by EPA 6000/7000 Series Methods

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.



Amar Gill
Project Manager
North Creek Analytical

CASE NARRATIVE for B4J0416

Volatile Organic Compounds by EPA Method 8260B

The Matrix Spike and Matrix Spike Duplicate for analytical batch 4J14041 were analyzed outside the twelve-hour quality control window. Since all other batch QC samples and project samples were analyzed within a twelve-hour window no further action was deemed necessary other than to note the anomaly in the report. No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Project samples WP-1-11, WP-8-11, WP-4M-11 and WP-3A-10 were extracted in analytical batch 4J18059. The percent recoveries of spike compounds, Benzo(a)Pyrene, Chrysene and Pyrene were above control limits in the analytical batch Blank Spike (BS) and Blank Spike Duplicate (BSD). The Relative Percent Difference (RPD) for each spike compound was within control limits. The project samples analyzed as part of analytical batch 4J18059 were all non-detect (ND) for Benzo(a)Pyrene, Chrysene and Pyrene. No further action was deemed necessary. No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.



Amar Gill
Project Manager
North Creek Analytical



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 541-383-9310 FAX 382-7588
 907-334-9200 FAX 334-9210

CHAIN OF CUSTODY REPORT

Work Order #: **B4J0414**

CLIENT: ADOT - FIA		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>													
REPORT TO: SLR AK		SLR AK															
ADDRESS: 3522 INTERNATIONAL FAIRBANKS AK		P.O. NUMBER:															
PHONE: 907-455-9005 FAX: 907-455-9015		PRESERVATIVE															
PROJECT NAME: FIA - FORMER MARK AIR FACILITIES		PROJECT NUMBER: 004.0184.00001		REQUESTED ANALYSES													
SAMPLED BY: Sally Swenson / Andy Armitage																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX	MEQ	AKL01	AKL02	AKL03	VOC	EPA 8260	PAH	EPA 8270	LEAD	EM. METALS	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID	
1 WP-1-11	10.6.04 1600	X	X					X	X				S	2		01	
2 WP-2-11	10.6.04 1630	X	X					X	X				S	2		02	
3 WP-8-11	10.6.04 1345	X			X			X					S	2		03	
4 WP-9-11	10.6.04 1100	X			X			X					S	2		04	
5 MW-7-10	10.5.04 1100	X			X			X					S	2		05	
6 MW-1A-10	10.5.04 1320	X			X			X					S	2		06	
7 MW-8-13	10.6.04 1650	X			X			X					S	2		07	
8 WP-13-12	10.4.04 1350	X			X			X					S	2		08	
9 WP-2A-10	10.6.04 1420	X											S	1		09	
10 WP-4A-11	10.7.04 0950			X	X	X	X	X	X				S	3		10	
RELEASED BY: Sally C. Swenson		FIRM: SLR		DATE: 10.7.04		TIME: 1630		RECEIVED BY: GRANDY TONY		FIRM: NCA		DATE: 10/8/04		TIME: 1630			
RELEASED BY:		FIRM:		DATE:		TIME:		RECEIVED BY:		FIRM:		DATE:		TIME:			
PRINT NAME:		FIRM:		DATE:		TIME:		PRINT NAME:		FIRM:		DATE:		TIME:			
ADDITIONAL REMARKS:													TEMP: 53	PAGE 1 OF 2			

W/ps



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X

CHAIN OF CUSTODY REPORT

Work Order #: **B4J0416**

CLIENT: ADOT - FIA		INVOICE TO: SLR AK		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: _____ * Turnaround Requests less than standard may incur Rush Charges.								
REPORT TO: SLR ALASKA		P.O. NUMBER:										
ADDRESS: 2522 International ST Fbks AK 99709												
PHONE: 907-455-9005 FAX: 455-9015												
PROJECT NAME: Former Marx Air Foc.		PRESERVATIVE										
PROJECT NUMBER: 004.0154.00001		MEQ# MEQ#										
SAMPLED BY: S. SWENSON		REQUESTED ANALYSES										
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX	PAH	PCB	DDT	PCP	OC	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID	
1 WP-3A-10	10.7.04 1125	X	X	X	X	X	X	S	3		11	
2 WP-6-10	11.7.04 1210	X	X	X	X	X	X	S	3		12	
3												
4												
5												
6												
7												
8												
9												
10												
RELEASED BY: <i>[Signature]</i>	DATE: 10.7.04	RECEIVED BY: <i>[Signature]</i>	DATE: 10/8/04									
PRINT NAME: Sally Swenson	FIRM: SLR	TIME: 1030	PRINT NAME: BRAM TONLEY	FIRM: NCA					TIME: 1630			
RELEASED BY:	DATE:	RECEIVED BY:	DATE:									
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:									
ADDITIONAL REMARKS:										TEMP:	PAGE 2 OF 2	



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP-1-11	B4J0416-01	Soil	10/06/04 16:00	10/08/04 16:30
WP-2-11	B4J0416-02	Soil	10/06/04 16:30	10/08/04 16:30
WP-8-11	B4J0416-03	Soil	10/06/04 13:45	10/08/04 16:30
WP-9-11	B4J0416-04	Soil	10/06/04 11:00	10/08/04 16:30
MW-7-10	B4J0416-05	Soil	10/05/04 11:00	10/08/04 16:30
MW-1A-10	B4J0416-06	Soil	10/05/04 13:20	10/08/04 16:30
MW-8-13	B4J0416-07	Soil	10/05/04 16:50	10/08/04 16:30
WP-13-12	B4J0416-08	Soil	10/04/04 13:50	10/08/04 16:30
WP-2A-10	B4J0416-09	Soil	10/06/04 14:20	10/08/04 16:30
WP-4M-11	B4J0416-10	Soil	10/07/04 09:50	10/08/04 16:30
WP-3A-10	B4J0416-11	Soil	10/07/04 11:25	10/08/04 16:30
WP-6-10	B4J0416-12	Soil	10/07/04 12:10	10/08/04 16:30

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Gasoline Range Hydrocarbons (n-Hexane to <n-Decane) by AK101
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-4M-11 (B4J0416-10) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30										
Gasoline Range Hydrocarbons	1260	100		mg/kg dry	20	4J22005	10/22/04	10/23/04	AK 101	
Surrogate: 4-BFB (FID)	198 %	60-120				"	"	"	"	S-04
Surrogate: a,a,a-TFT (FID)	117 %	50-150				"	"	"	"	
WP-3A-10 (B4J0416-11) Soil Sampled: 10/07/04 11:25 Received: 10/08/04 16:30										
Gasoline Range Hydrocarbons	1400	100		mg/kg dry	20	4J22005	10/22/04	10/23/04	AK 101	
Surrogate: 4-BFB (FID)	189 %	60-120				"	"	"	"	S-04
Surrogate: a,a,a-TFT (FID)	116 %	50-150				"	"	"	"	
WP-6-10 (B4J0416-12) Soil Sampled: 10/07/04 12:10 Received: 10/08/04 16:30										
Gasoline Range Hydrocarbons	ND	2.89		mg/kg dry	1	4J22005	10/22/04	10/23/04	AK 101	
Surrogate: 4-BFB (FID)	99.4 %	60-120				"	"	"	"	
Surrogate: a,a,a-TFT (FID)	78.8 %	50-150				"	"	"	"	

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-1-11 (B4J0416-01) Soil Sampled: 10/06/04 16:00 Received: 10/08/04 16:30

Gasoline Range Hydrocarbons	1020	75.8	mg/kg dry	20	4J18022	10/18/04	10/18/04	AK 101		
Benzene	0.574	0.303	"	"	"	"	"	"		
Toluene	12.4	0.758	"	"	"	"	"	"		
Ethylbenzene	14.8	0.758	"	"	"	"	"	"		
Xylenes (total)	59.7	1.52	"	"	"	"	"	"		
<i>Surrogate: 4-BFB (FID)</i>	<i>198 %</i>	<i>60-120</i>			"	"	"	"		<i>S-04</i>
<i>Surrogate: a,a,a-TFT (FID)</i>	<i>117 %</i>	<i>50-150</i>			"	"	"	"		
<i>Surrogate: 4-BFB (PID)</i>	<i>116 %</i>	<i>60-120</i>			"	"	"	"		
<i>Surrogate: a,a,a-TFT (PID)</i>	<i>113 %</i>	<i>50-150</i>			"	"	"	"		

WP-2-11 (B4J0416-02) Soil Sampled: 10/06/04 16:30 Received: 10/08/04 16:30

Gasoline Range Hydrocarbons	2720	153	mg/kg dry	50	4J18022	10/18/04	10/18/04	AK 101		
Benzene	29.2	0.611	"	"	"	"	"	"		
Toluene	138	1.53	"	"	"	"	"	"		
Ethylbenzene	56.9	1.53	"	"	"	"	"	"		
Xylenes (total)	230	3.06	"	"	"	"	"	"		
<i>Surrogate: 4-BFB (FID)</i>	<i>166 %</i>	<i>60-120</i>			"	"	"	"		<i>S-04</i>
<i>Surrogate: a,a,a-TFT (FID)</i>	<i>>200 %</i>	<i>50-150</i>			"	"	"	"		<i>S-04</i>
<i>Surrogate: 4-BFB (PID)</i>	<i>112 %</i>	<i>60-120</i>			"	"	"	"		
<i>Surrogate: a,a,a-TFT (PID)</i>	<i>186 %</i>	<i>50-150</i>			"	"	"	"		<i>S-04</i>

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Diesel Hydrocarbons (C10-C25) by AK102
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-8-11 (B4J0416-03) Soil Sampled: 10/06/04 13:45 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	ND	4.00		mg/kg dry	1	4J20022	10/20/04	10/20/04	AK 102	
Surrogate: 2-FBP	72.7 %	50-150				"	"	"	"	
WP-9-11 (B4J0416-04) Soil Sampled: 10/06/04 11:00 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	55.4	20.0		mg/kg dry	5	4J20022	10/20/04	10/21/04	AK 102	
Surrogate: 2-FBP	68.1 %	50-150				"	"	"	"	
MW-7-10 (B4J0416-05) Soil Sampled: 10/05/04 11:00 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	12.6	4.00		mg/kg dry	1	4J15001	10/15/04	10/16/04	AK 102	
Surrogate: 2-FBP	89.5 %	50-150				"	"	"	"	
MW-1A-10 (B4J0416-06) Soil Sampled: 10/05/04 13:20 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	ND	4.00		mg/kg dry	1	4J15001	10/15/04	10/16/04	AK 102	
Surrogate: 2-FBP	84.8 %	50-150				"	"	"	"	
MW-8-13 (B4J0416-07) Soil Sampled: 10/05/04 16:50 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	ND	4.00		mg/kg dry	1	4J15001	10/15/04	10/16/04	AK 102	
Surrogate: 2-FBP	89.4 %	50-150				"	"	"	"	
WP-13-12 (B4J0416-08) Soil Sampled: 10/04/04 13:50 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	13.7	4.00		mg/kg dry	1	4J15001	10/15/04	10/16/04	AK 102	
Surrogate: 2-FBP	83.8 %	50-150				"	"	"	"	

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-4M-11 (B4J0416-10) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	805	40.0		mg/kg dry	10	4J18058	10/18/04	10/20/04	AK102/103	
Residual Range Organics	962	250		"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	79.3 %	50-150				"	"	"	"	
<i>Surrogate: Octacosane</i>	109 %	50-150				"	"	"	"	
WP-3A-10 (B4J0416-11) Soil Sampled: 10/07/04 11:25 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	1240	40.0		mg/kg dry	10	4J18058	10/18/04	10/20/04	AK102/103	
Residual Range Organics	1590	250		"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	101 %	50-150				"	"	"	"	
<i>Surrogate: Octacosane</i>	96.8 %	50-150				"	"	"	"	
WP-6-10 (B4J0416-12) Soil Sampled: 10/07/04 12:10 Received: 10/08/04 16:30										
Diesel Range Hydrocarbons	13.4	4.00		mg/kg dry	1	4J18058	10/18/04	10/20/04	AK102/103	
Residual Range Organics	147	25.0		"	"	"	"	"	"	
<i>Surrogate: 2-FBP</i>	76.0 %	50-150				"	"	"	"	
<i>Surrogate: Octacosane</i>	91.1 %	50-150				"	"	"	"	

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

BTEX by EPA Method 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-8-11 (B4J0416-03) Soil Sampled: 10/06/04 13:45 Received: 10/08/04 16:30

Benzene	0.0187	0.0102	mg/kg dry	1	4J22005	10/22/04	10/23/04	EPA 8021B	
Toluene	0.0638	0.0341	"	"	"	"	"	"	
Ethylbenzene	ND	0.0341	"	"	"	"	"	"	
Xylenes (total)	ND	0.0682	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	91.4 %	60-120			"	"	"	"	
Surrogate: a,a,a-TFT (PID)	66.5 %	50-150			"	"	"	"	

WP-9-11 (B4J0416-04) Soil Sampled: 10/06/04 11:00 Received: 10/08/04 16:30

Benzene	0.0195	0.0132	mg/kg dry	1	4J22005	10/22/04	10/23/04	EPA 8021B	
Toluene	0.0569	0.0440	"	"	"	"	"	"	
Ethylbenzene	ND	0.0440	"	"	"	"	"	"	
Xylenes (total)	ND	0.0881	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	91.3 %	60-120			"	"	"	"	
Surrogate: a,a,a-TFT (PID)	98.7 %	50-150			"	"	"	"	

MW-7-10 (B4J0416-05) Soil Sampled: 10/05/04 11:00 Received: 10/08/04 16:30

Benzene	0.0316	0.0150	mg/kg dry	1	4J22005	10/22/04	10/23/04	EPA 8021B	
Toluene	0.0949	0.0500	"	"	"	"	"	"	
Ethylbenzene	0.871	0.0500	"	"	"	"	"	"	
Xylenes (total)	5.98	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	60-120			"	"	"	"	
Surrogate: a,a,a-TFT (PID)	75.2 %	50-150			"	"	"	"	

MW-1A-10 (B4J0416-06) Soil Sampled: 10/05/04 13:20 Received: 10/08/04 16:30

Benzene	0.0164	0.00951	mg/kg dry	1	4J22005	10/22/04	10/23/04	EPA 8021B	
Toluene	ND	0.0317	"	"	"	"	"	"	
Ethylbenzene	ND	0.0317	"	"	"	"	"	"	
Xylenes (total)	0.300	0.0634	"	"	"	"	"	"	I-06
Surrogate: 4-BFB (PID)	92.3 %	60-120			"	"	"	"	
Surrogate: a,a,a-TFT (PID)	73.5 %	50-150			"	"	"	"	

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

BTEX by EPA Method 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-8-13 (B4J0416-07) Soil Sampled: 10/05/04 16:50 Received: 10/08/04 16:30										
Benzene	0.0189	0.0106		mg/kg dry	1	4J22005	10/22/04	10/23/04	EPA 8021B	
Toluene	0.0686	0.0352		"	"	"	"	"	"	
Ethylbenzene	ND	0.0352		"	"	"	"	"	"	
Xylenes (total)	0.292	0.0704		"	"	"	"	"	"	I-06
Surrogate: 4-BFB (PID)	91.2 %	60-120				"	"	"	"	
Surrogate: a,a,a-TFT (PID)	49.1 %	50-150				"	"	"	"	G-06
WP-13-12 (B4J0416-08) Soil Sampled: 10/04/04 13:50 Received: 10/08/04 16:30										
Benzene	ND	0.0150		mg/kg dry	1	4J22005	10/22/04	10/23/04	EPA 8021B	
Toluene	ND	0.0500		"	"	"	"	"	"	
Ethylbenzene	ND	0.0500		"	"	"	"	"	"	
Xylenes (total)	ND	0.100		"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	90.4 %	60-120				"	"	"	"	
Surrogate: a,a,a-TFT (PID)	86.8 %	50-150				"	"	"	"	
WP-2A-10 (B4J0416-09) Soil Sampled: 10/06/04 14:20 Received: 10/08/04 16:30										
Benzene	0.0141	0.0103		mg/kg dry	1	4J22005	10/22/04	10/23/04	EPA 8021B	
Toluene	0.0563	0.0345		"	"	"	"	"	"	
Ethylbenzene	ND	0.0345		"	"	"	"	"	"	
Xylenes (total)	ND	0.0689		"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	91.5 %	60-120				"	"	"	"	
Surrogate: a,a,a-TFT (PID)	66.7 %	50-150				"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/07/04 17:13
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Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-1-11 (B4J0416-01) Soil **Sampled: 10/06/04 16:00** **Received: 10/08/04 16:30**

Lead	3.76	1.00		mg/kg dry	1	4J18044	10/18/04	10/19/04	EPA 6020	
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North Creek Analytical - Bothell

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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-4M-11 (B4J0416-10) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30										
Acetone	ND	2.00		mg/kg dry	2	4J14041	10/14/04	10/14/04	EPA 8260B	
Benzene	0.178	0.0400		"	"	"	"	"	"	
Bromobenzene	ND	0.200		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	0.200		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	4.00	0.200		"	"	"	"	"	"	
sec-Butylbenzene	2.18	0.200		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.200		"	"	"	"	"	"	
Carbon disulfide	ND	0.200		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200		"	"	"	"	"	"	
Chlorobenzene	ND	0.200		"	"	"	"	"	"	
Chloroethane	ND	0.200		"	"	"	"	"	"	
Chloroform	ND	0.200		"	"	"	"	"	"	
Chloromethane	ND	1.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.200		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.200		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.00		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-4M-11 (B4J0416-10) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30										
Ethylbenzene	7.85	0.200		mg/kg dry	2	4J14041	10/14/04	10/14/04	EPA 8260B	E
Hexachlorobutadiene	ND	0.200		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
Isopropylbenzene	2.31	0.200		"	"	"	"	"	"	
p-Isopropyltoluene	2.44	0.200		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Methylene chloride	ND	2.00		"	"	"	"	"	"	
Naphthalene	9.03	0.200		"	"	"	"	"	"	E
n-Propylbenzene	3.79	0.200		"	"	"	"	"	"	
Styrene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.200		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	7.01	0.100		"	1	"	"	"	"	E-01
1,1,1-Trichloroethane	ND	0.200		"	2	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.200		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	26.0	0.200		"	"	"	"	"	"	E-01
1,3,5-Trimethylbenzene	7.20	0.200		"	"	"	"	"	"	E
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
o-Xylene	18.2	0.200		"	"	"	"	"	"	E-01
m,p-Xylene	27.5	0.400		"	"	"	"	"	"	E-01
Surrogate: 1,2-DCA-d4	109 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130				"	"	"	"	
Surrogate: 4-BFB	94.9 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-4M-11 (B4J0416-10RE1) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30										
Acetone	ND	5.00		mg/kg dry	5	4J20032	10/20/04	10/20/04	EPA 8260B	
Benzene	0.186	0.100		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.500		"	"	"	"	"	"	
Bromodichloromethane	ND	0.500		"	"	"	"	"	"	
Bromoform	ND	0.500		"	"	"	"	"	"	
Bromomethane	ND	0.500		"	"	"	"	"	"	
2-Butanone	ND	5.00		"	"	"	"	"	"	
n-Butylbenzene	2.74	0.500		"	"	"	"	"	"	
sec-Butylbenzene	1.76	0.500		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
Carbon disulfide	ND	0.500		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500		"	"	"	"	"	"	
Chlorobenzene	ND	0.500		"	"	"	"	"	"	
Chloroethane	ND	0.500		"	"	"	"	"	"	
Chloroform	ND	0.500		"	"	"	"	"	"	
Chloromethane	ND	2.50		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
Dibromochloromethane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.500		"	"	"	"	"	"	
Dibromomethane	ND	0.500		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.500		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500		"	"	"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-4M-11 (B4J0416-10RE1) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30										
Ethylbenzene	7.51	0.500		mg/kg dry	5	4J20032	10/20/04	10/20/04	EPA 8260B	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50		"	"	"	"	"	"	
2-Hexanone	ND	5.00		"	"	"	"	"	"	
Isopropylbenzene	2.15	0.500		"	"	"	"	"	"	
p-Isopropyltoluene	1.88	0.500		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.00		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	8.07	0.500		"	"	"	"	"	"	
n-Propylbenzene	3.36	0.500		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.500		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.500		"	"	"	"	"	"	
Toluene	14.0	0.500		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.500		"	"	"	"	"	"	
Trichloroethene	ND	0.500		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	19.8	0.500		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	6.37	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.500		"	"	"	"	"	"	
o-Xylene	15.9	0.500		"	"	"	"	"	"	
m,p-Xylene	41.4	1.00		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	94.9 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130				"	"	"	"	
Surrogate: 4-BFB	102 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B

North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-3A-10 (B4J0416-11) Soil Sampled: 10/07/04 11:25 Received: 10/08/04 16:30										
Acetone	ND	2.00		mg/kg dry	2	4J14041	10/14/04	10/14/04	EPA 8260B	
Benzene	0.134	0.0400		"	"	"	"	"	"	
Bromobenzene	ND	0.200		"	"	"	"	"	"	
Bromochloromethane	ND	0.200		"	"	"	"	"	"	
Bromodichloromethane	ND	0.200		"	"	"	"	"	"	
Bromoform	ND	0.200		"	"	"	"	"	"	
Bromomethane	ND	0.200		"	"	"	"	"	"	
2-Butanone	ND	2.00		"	"	"	"	"	"	
n-Butylbenzene	4.70	0.200		"	"	"	"	"	"	
sec-Butylbenzene	2.43	0.200		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.200		"	"	"	"	"	"	
Carbon disulfide	ND	0.200		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.200		"	"	"	"	"	"	
Chlorobenzene	ND	0.200		"	"	"	"	"	"	
Chloroethane	ND	0.200		"	"	"	"	"	"	
Chloroform	ND	0.200		"	"	"	"	"	"	
Chloromethane	ND	1.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.200		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.200		"	"	"	"	"	"	
Dibromochloromethane	ND	0.200		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.00		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.200		"	"	"	"	"	"	
Dibromomethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.200		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.200		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.200		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.200		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.200		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.200		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.200		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-3A-10 (B4J0416-11) Soil Sampled: 10/07/04 11:25 Received: 10/08/04 16:30										
Ethylbenzene	8.70	0.200		mg/kg dry	2	4J14041	10/14/04	10/14/04	EPA 8260B	E
Hexachlorobutadiene	ND	0.200		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00		"	"	"	"	"	"	
2-Hexanone	ND	2.00		"	"	"	"	"	"	
Isopropylbenzene	2.49	0.200		"	"	"	"	"	"	
p-Isopropyltoluene	2.67	0.200		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	2.00		"	"	"	"	"	"	
Methylene chloride	ND	2.00		"	"	"	"	"	"	
Naphthalene	10.4	0.200		"	"	"	"	"	"	E
n-Propylbenzene	4.27	0.200		"	"	"	"	"	"	
Styrene	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.200		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.200		"	"	"	"	"	"	
Tetrachloroethene	ND	0.200		"	"	"	"	"	"	
Toluene	15.8	0.200		"	"	"	"	"	"	E-01
1,1,1-Trichloroethane	ND	0.200		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.200		"	"	"	"	"	"	
Trichloroethene	ND	0.200		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.200		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.200		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	28.7	0.200		"	"	"	"	"	"	E-01
1,3,5-Trimethylbenzene	9.75	0.200		"	"	"	"	"	"	E
Vinyl chloride	ND	0.200		"	"	"	"	"	"	
o-Xylene	19.5	0.200		"	"	"	"	"	"	E
m,p-Xylene	39.3	0.400		"	"	"	"	"	"	E-01
<i>Surrogate: 1,2-DCA-d4</i>	<i>111 %</i>	<i>70-130</i>				<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>	<i>70-130</i>				<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-BFB</i>	<i>99.1 %</i>	<i>70-130</i>				<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-3A-10 (B4J0416-11RE1) Soil Sampled: 10/07/04 11:25 Received: 10/08/04 16:30										
Acetone	ND	5.00		mg/kg dry	5	4J20032	10/20/04	10/20/04	EPA 8260B	
Benzene	0.126	0.100		"	"	"	"	"	"	
Bromobenzene	ND	0.500		"	"	"	"	"	"	
Bromochloromethane	ND	0.500		"	"	"	"	"	"	
Bromodichloromethane	ND	0.500		"	"	"	"	"	"	
Bromoform	ND	0.500		"	"	"	"	"	"	
Bromomethane	ND	0.500		"	"	"	"	"	"	
2-Butanone	ND	5.00		"	"	"	"	"	"	
n-Butylbenzene	3.00	0.500		"	"	"	"	"	"	
sec-Butylbenzene	1.81	0.500		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500		"	"	"	"	"	"	
Carbon disulfide	ND	0.500		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500		"	"	"	"	"	"	
Chlorobenzene	ND	0.500		"	"	"	"	"	"	
Chloroethane	ND	0.500		"	"	"	"	"	"	
Chloroform	ND	0.500		"	"	"	"	"	"	
Chloromethane	ND	2.50		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500		"	"	"	"	"	"	
Dibromochloromethane	ND	0.500		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.50		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.500		"	"	"	"	"	"	
Dibromomethane	ND	0.500		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.500		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.500		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.500		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-3A-10 (B4J0416-11RE1) Soil Sampled: 10/07/04 11:25 Received: 10/08/04 16:30

Ethylbenzene	7.81	0.500		mg/kg dry	5	4J20032	10/20/04	10/20/04	EPA 8260B	
Hexachlorobutadiene	ND	0.500		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50		"	"	"	"	"	"	
2-Hexanone	ND	5.00		"	"	"	"	"	"	
Isopropylbenzene	2.20	0.500		"	"	"	"	"	"	
p-Isopropyltoluene	1.90	0.500		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.00		"	"	"	"	"	"	
Methylene chloride	ND	5.00		"	"	"	"	"	"	
Naphthalene	8.65	0.500		"	"	"	"	"	"	
n-Propylbenzene	3.38	0.500		"	"	"	"	"	"	
Styrene	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.500		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.500		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.500		"	"	"	"	"	"	
Tetrachloroethene	ND	0.500		"	"	"	"	"	"	
Toluene	14.7	0.500		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.500		"	"	"	"	"	"	
Trichloroethene	ND	0.500		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.500		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	20.1	0.500		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	6.41	0.500		"	"	"	"	"	"	
Vinyl chloride	ND	0.500		"	"	"	"	"	"	
o-Xylene	16.2	0.500		"	"	"	"	"	"	
m,p-Xylene	42.3	1.00		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	96.1 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130				"	"	"	"	
Surrogate: 4-BFB	100 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-6-10 (B4J0416-12) Soil Sampled: 10/07/04 12:10 Received: 10/08/04 16:30										
Acetone	ND	0.577		mg/kg dry	1	4J14041	10/14/04	10/14/04	EPA 8260B	
Benzene	ND	0.0115		"	"	"	"	"	"	
Bromobenzene	ND	0.0577		"	"	"	"	"	"	
Bromochloromethane	ND	0.0577		"	"	"	"	"	"	
Bromodichloromethane	ND	0.0577		"	"	"	"	"	"	
Bromoform	ND	0.0577		"	"	"	"	"	"	
Bromomethane	ND	0.0577		"	"	"	"	"	"	
2-Butanone	ND	0.577		"	"	"	"	"	"	
n-Butylbenzene	ND	0.0577		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0577		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0577		"	"	"	"	"	"	
Carbon disulfide	ND	0.0577		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0577		"	"	"	"	"	"	
Chlorobenzene	ND	0.0577		"	"	"	"	"	"	
Chloroethane	ND	0.0577		"	"	"	"	"	"	
Chloroform	ND	0.0577		"	"	"	"	"	"	
Chloromethane	ND	0.289		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0577		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0577		"	"	"	"	"	"	
Dibromochloromethane	ND	0.0577		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.289		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0577		"	"	"	"	"	"	
Dibromomethane	ND	0.0577		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0577		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0577		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0577		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0577		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0577		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0577		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0577		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0577		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0577		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0577		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0577		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0577		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0577		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0577		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0577		"	"	"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-6-10 (B4J0416-12) Soil Sampled: 10/07/04 12:10 Received: 10/08/04 16:30										
										A-01
Ethylbenzene	ND	0.0577		mg/kg dry	1	4J14041	10/14/04	10/14/04	EPA 8260B	
Hexachlorobutadiene	ND	0.0577		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.289		"	"	"	"	"	"	
2-Hexanone	ND	0.577		"	"	"	"	"	"	
Isopropylbenzene	ND	0.0577		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0577		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	0.577		"	"	"	"	"	"	
Methylene chloride	ND	0.577		"	"	"	"	"	"	
Naphthalene	ND	0.0577		"	"	"	"	"	"	
n-Propylbenzene	ND	0.0577		"	"	"	"	"	"	
Styrene	ND	0.0577		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0577		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0577		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0577		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0577		"	"	"	"	"	"	
Tetrachloroethene	ND	0.0577		"	"	"	"	"	"	
Toluene	ND	0.0577		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0577		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0577		"	"	"	"	"	"	
Trichloroethene	ND	0.0577		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0577		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0577		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0577		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0577		"	"	"	"	"	"	
Vinyl chloride	ND	0.0577		"	"	"	"	"	"	
o-Xylene	ND	0.0577		"	"	"	"	"	"	
m,p-Xylene	ND	0.115		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	101 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130				"	"	"	"	
Surrogate: 4-BFB	97.9 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-6-10 (B4J0416-12RE1) Soil Sampled: 10/07/04 12:10 Received: 10/08/04 16:30										
Acetone	ND	0.577		mg/kg dry	1	4J15059	10/18/04	10/18/04	EPA 8260B	
Benzene	ND	0.0115		"	"	"	"	"	"	
Bromobenzene	ND	0.0577		"	"	"	"	"	"	
Bromochloromethane	ND	0.0577		"	"	"	"	"	"	
Bromodichloromethane	ND	0.0577		"	"	"	"	"	"	
Bromoform	ND	0.0577		"	"	"	"	"	"	
Bromomethane	ND	0.0577		"	"	"	"	"	"	
2-Butanone	ND	0.577		"	"	"	"	"	"	
n-Butylbenzene	ND	0.0577		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0577		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0577		"	"	"	"	"	"	
Carbon disulfide	ND	0.0577		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0577		"	"	"	"	"	"	
Chlorobenzene	ND	0.0577		"	"	"	"	"	"	
Chloroethane	ND	0.0577		"	"	"	"	"	"	
Chloroform	ND	0.0577		"	"	"	"	"	"	
Chloromethane	ND	0.289		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0577		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0577		"	"	"	"	"	"	
Dibromochloromethane	ND	0.0577		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.289		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0577		"	"	"	"	"	"	
Dibromomethane	ND	0.0577		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0577		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0577		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0577		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0577		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0577		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0577		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0577		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0577		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0577		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0577		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0577		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0577		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0577		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0577		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0577		"	"	"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-6-10 (B4J0416-12RE1) Soil **Sampled: 10/07/04 12:10** **Received: 10/08/04 16:30**

Ethylbenzene	ND	0.0577	mg/kg dry	1		4J15059	10/18/04	10/18/04	EPA 8260B	
Hexachlorobutadiene	ND	0.0577	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.289	"	"	"	"	"	"	"	
2-Hexanone	ND	0.577	"	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0577	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0577	"	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	0.577	"	"	"	"	"	"	"	
Methylene chloride	ND	0.577	"	"	"	"	"	"	"	
Naphthalene	ND	0.0577	"	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0577	"	"	"	"	"	"	"	
Styrene	ND	0.0577	"	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0577	"	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0577	"	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0577	"	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0577	"	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0577	"	"	"	"	"	"	"	
Toluene	ND	0.0577	"	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0577	"	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0577	"	"	"	"	"	"	"	
Trichloroethene	ND	0.0577	"	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0577	"	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0577	"	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0577	"	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0577	"	"	"	"	"	"	"	
Vinyl chloride	ND	0.0577	"	"	"	"	"	"	"	
o-Xylene	ND	0.0577	"	"	"	"	"	"	"	
m,p-Xylene	ND	0.115	"	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	113 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130				"	"	"	"	
Surrogate: 4-BFB	104 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-1-11 (B4J0416-01) Soil Sampled: 10/06/04 16:00 Received: 10/08/04 16:30										
1-Methylnaphthalene	8.40	0.200		mg/kg dry	20	4J18059	10/18/04	11/17/04	8270C-SIM	
2-Methylnaphthalene	11.9	0.200		"	"	"	"	"	"	
Acenaphthene	ND	0.200		"	"	"	"	"	"	
Acenaphthylene	ND	0.200		"	"	"	"	"	"	
Anthracene	ND	0.200		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.200		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200		"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND	0.200		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.200		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.200		"	"	"	"	"	"	
Chrysene	ND	0.200		"	"	"	"	"	"	X
Dibenz (a,h) anthracene	ND	0.200		"	"	"	"	"	"	
Fluoranthene	ND	0.200		"	"	"	"	"	"	
Fluorene	ND	0.200		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200		"	"	"	"	"	"	
Naphthalene	7.85	0.200		"	"	"	"	"	"	
Phenanthrene	ND	0.200		"	"	"	"	"	"	
Pyrene	ND	0.200		"	"	"	"	"	"	X
Surrogate: p-Terphenyl-d14	128 %	28-161				"	"	"	"	

WP-8-11 (B4J0416-03) Soil Sampled: 10/06/04 13:45 Received: 10/08/04 16:30										
1-Methylnaphthalene	ND	0.0100		mg/kg dry	1	4J18059	10/18/04	11/17/04	8270C-SIM	
2-Methylnaphthalene	ND	0.0100		"	"	"	"	"	"	
Acenaphthene	ND	0.0100		"	"	"	"	"	"	
Acenaphthylene	ND	0.0100		"	"	"	"	"	"	
Anthracene	ND	0.0100		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0100		"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND	0.0100		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0100		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0100		"	"	"	"	"	"	
Chrysene	ND	0.0100		"	"	"	"	"	"	X
Dibenz (a,h) anthracene	ND	0.0100		"	"	"	"	"	"	
Fluoranthene	ND	0.0100		"	"	"	"	"	"	
Fluorene	ND	0.0100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100		"	"	"	"	"	"	
Naphthalene	ND	0.0100		"	"	"	"	"	"	
Phenanthrene	ND	0.0100		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-8-11 (B4J0416-03) Soil Sampled: 10/06/04 13:45 Received: 10/08/04 16:30

Pyrene	ND	0.0100	mg/kg dry	1	4J18059	10/18/04	11/17/04	8270C-SIM		X
Surrogate: <i>p</i> -Terphenyl-d14	126 %	28-161			"	"	"	"		

MW-7-10 (B4J0416-05) Soil Sampled: 10/05/04 11:00 Received: 10/08/04 16:30

1-Methylnaphthalene	0.598	0.0100	mg/kg dry	1	4J18032	10/18/04	11/12/04	8270C-SIM		
2-Methylnaphthalene	0.700	0.0100	"	"	"	"	"	"		
Acenaphthene	ND	0.0100	"	"	"	"	"	"		
Acenaphthylene	ND	0.0100	"	"	"	"	"	"		
Anthracene	ND	0.0100	"	"	"	"	"	"		
Benzo (a) anthracene	0.0114	0.0100	"	"	"	"	"	"		
Benzo (a) pyrene	ND	0.0100	"	"	"	"	"	"		
Benzo (b) fluoranthene	0.0211	0.0100	"	"	"	"	"	"		
Benzo (ghi) perylene	0.0273	0.0100	"	"	"	"	"	"		
Benzo (k) fluoranthene	0.0185	0.0100	"	"	"	"	"	"		
Chrysene	ND	0.0100	"	"	"	"	"	"		
Dibenz (a,h) anthracene	0.0246	0.0100	"	"	"	"	"	"		
Fluoranthene	ND	0.0100	"	"	"	"	"	"		
Fluorene	ND	0.0100	"	"	"	"	"	"		
Indeno (1,2,3-cd) pyrene	0.0252	0.0100	"	"	"	"	"	"		
Naphthalene	0.755	0.0100	"	"	"	"	"	"		
Phenanthrene	0.0153	0.0100	"	"	"	"	"	"		
Pyrene	ND	0.0100	"	"	"	"	"	"		
Surrogate: <i>p</i> -Terphenyl-d14	139 %	28-161			"	"	"	"		

MW-1A-10 (B4J0416-06) Soil Sampled: 10/05/04 13:20 Received: 10/08/04 16:30

1-Methylnaphthalene	0.0244	0.0100	mg/kg dry	1	4J18032	10/18/04	11/12/04	8270C-SIM		
2-Methylnaphthalene	0.0275	0.0100	"	"	"	"	"	"		
Acenaphthene	ND	0.0100	"	"	"	"	"	"		
Acenaphthylene	ND	0.0100	"	"	"	"	"	"		
Anthracene	ND	0.0100	"	"	"	"	"	"		
Benzo (a) anthracene	ND	0.0100	"	"	"	"	"	"		
Benzo (a) pyrene	ND	0.0100	"	"	"	"	"	"		
Benzo (b) fluoranthene	0.0198	0.0100	"	"	"	"	"	"		
Benzo (ghi) perylene	0.0262	0.0100	"	"	"	"	"	"		
Benzo (k) fluoranthene	0.0179	0.0100	"	"	"	"	"	"		
Chrysene	ND	0.0100	"	"	"	"	"	"		
Dibenz (a,h) anthracene	0.0233	0.0100	"	"	"	"	"	"		
Fluoranthene	ND	0.0100	"	"	"	"	"	"		

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

MW-1A-10 (B4J0416-06) Soil Sampled: 10/05/04 13:20 Received: 10/08/04 16:30

Fluorene	ND	0.0100	mg/kg dry	1	4J18032	10/18/04	11/12/04	8270C-SIM		
Indeno (1,2,3-cd) pyrene	0.0243	0.0100	"	"	"	"	"	"		
Naphthalene	0.0269	0.0100	"	"	"	"	"	"		
Phenanthrene	0.0145	0.0100	"	"	"	"	"	"		
Pyrene	ND	0.0100	"	"	"	"	"	"		
<i>Surrogate: p-Terphenyl-d14</i>	149 %	28-161			"	"	"	"		

MW-8-13 (B4J0416-07) Soil Sampled: 10/05/04 16:50 Received: 10/08/04 16:30

1-Methylnaphthalene	0.0121	0.0100	mg/kg dry	1	4J18032	10/18/04	11/12/04	8270C-SIM		
2-Methylnaphthalene	0.0139	0.0100	"	"	"	"	"	"		
Acenaphthene	ND	0.0100	"	"	"	"	"	"		
Acenaphthylene	ND	0.0100	"	"	"	"	"	"		
Anthracene	ND	0.0100	"	"	"	"	"	"		
Benzo (a) anthracene	ND	0.0100	"	"	"	"	"	"		
Benzo (a) pyrene	ND	0.0100	"	"	"	"	"	"		
Benzo (b) fluoranthene	ND	0.0100	"	"	"	"	"	"		
Benzo (ghi) perylene	0.0264	0.0100	"	"	"	"	"	"		
Benzo (k) fluoranthene	0.0183	0.0100	"	"	"	"	"	"		
Chrysene	ND	0.0100	"	"	"	"	"	"		
Dibenz (a,h) anthracene	0.0230	0.0100	"	"	"	"	"	"		
Fluoranthene	ND	0.0100	"	"	"	"	"	"		
Fluorene	ND	0.0100	"	"	"	"	"	"		
Indeno (1,2,3-cd) pyrene	0.0246	0.0100	"	"	"	"	"	"		
Naphthalene	0.0138	0.0100	"	"	"	"	"	"		
Phenanthrene	0.0132	0.0100	"	"	"	"	"	"		
Pyrene	ND	0.0100	"	"	"	"	"	"		
<i>Surrogate: p-Terphenyl-d14</i>	148 %	28-161			"	"	"	"		

North Creek Analytical - Bothell

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-13-12 (B4J0416-08) Soil Sampled: 10/04/04 13:50 Received: 10/08/04 16:30										
1-Methylnaphthalene	ND	0.0100		mg/kg dry	1	4J18032	10/18/04	11/12/04	8270C-SIM	
2-Methylnaphthalene	ND	0.0100		"	"	"	"	"	"	
Acenaphthene	ND	0.0100		"	"	"	"	"	"	
Acenaphthylene	ND	0.0100		"	"	"	"	"	"	
Anthracene	0.0180	0.0100		"	"	"	"	"	"	
Benzo (a) anthracene	0.0309	0.0100		"	"	"	"	"	"	
Benzo (a) pyrene	0.0299	0.0100		"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0367	0.0100		"	"	"	"	"	"	
Benzo (ghi) perylene	0.0418	0.0100		"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0280	0.0100		"	"	"	"	"	"	
Chrysene	0.0360	0.0100		"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.0258	0.0100		"	"	"	"	"	"	
Fluoranthene	0.0670	0.0100		"	"	"	"	"	"	
Fluorene	ND	0.0100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0348	0.0100		"	"	"	"	"	"	
Naphthalene	ND	0.0100		"	"	"	"	"	"	
Phenanthrene	0.0651	0.0100		"	"	"	"	"	"	
Pyrene	0.0734	0.0100		"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>	140 %	28-161				"	"	"	"	

WP-4M-11 (B4J0416-10) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30										
1-Methylnaphthalene	8.39	0.200		mg/kg dry	20	4J18059	10/18/04	11/17/04	8270C-SIM	
2-Methylnaphthalene	10.9	0.200		"	"	"	"	"	"	
Acenaphthene	ND	0.200		"	"	"	"	"	"	
Acenaphthylene	ND	0.200		"	"	"	"	"	"	
Anthracene	ND	0.200		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.200		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200		"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND	0.200		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.200		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.200		"	"	"	"	"	"	
Chrysene	ND	0.200		"	"	"	"	"	"	X
Dibenz (a,h) anthracene	ND	0.200		"	"	"	"	"	"	
Fluoranthene	ND	0.200		"	"	"	"	"	"	
Fluorene	0.304	0.200		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200		"	"	"	"	"	"	
Naphthalene	6.95	0.200		"	"	"	"	"	"	
Phenanthrene	ND	0.200		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-4M-11 (B4J0416-10) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30

Pyrene	ND	0.200	mg/kg dry	20	4J18059	10/18/04	11/17/04	8270C-SIM		X
Surrogate: <i>p</i> -Terphenyl-d14	106 %	28-161			"	"	"	"		

WP-3A-10 (B4J0416-11) Soil Sampled: 10/07/04 11:25 Received: 10/08/04 16:30

1-Methylnaphthalene	14.5	0.200	mg/kg dry	20	4J18059	10/18/04	11/17/04	8270C-SIM		
2-Methylnaphthalene	18.8	0.200	"	"	"	"	"	"		
Acenaphthene	ND	0.200	"	"	"	"	"	"		
Acenaphthylene	ND	0.200	"	"	"	"	"	"		
Anthracene	ND	0.200	"	"	"	"	"	"		
Benzo (a) anthracene	ND	0.200	"	"	"	"	"	"		
Benzo (a) pyrene	ND	0.200	"	"	"	"	"	"		X
Benzo (b) fluoranthene	ND	0.200	"	"	"	"	"	"		
Benzo (ghi) perylene	ND	0.200	"	"	"	"	"	"		
Benzo (k) fluoranthene	ND	0.200	"	"	"	"	"	"		
Chrysene	ND	0.200	"	"	"	"	"	"		X
Dibenz (a,h) anthracene	ND	0.200	"	"	"	"	"	"		
Fluoranthene	ND	0.200	"	"	"	"	"	"		
Fluorene	0.543	0.200	"	"	"	"	"	"		
Indeno (1,2,3-cd) pyrene	ND	0.200	"	"	"	"	"	"		
Naphthalene	11.6	0.200	"	"	"	"	"	"		
Phenanthrene	ND	0.200	"	"	"	"	"	"		
Pyrene	ND	0.200	"	"	"	"	"	"		X
Surrogate: <i>p</i> -Terphenyl-d14	140 %	28-161			"	"	"	"		

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-1-11 (B4J0416-01) Soil Sampled: 10/06/04 16:00 Received: 10/08/04 16:30										
Dry Weight	88.3	1.00		%	1	4J19014	10/19/04	10/19/04	BSOPSPL003R08	
WP-2-11 (B4J0416-02) Soil Sampled: 10/06/04 16:30 Received: 10/08/04 16:30										
Dry Weight	84.4	1.00		%	1	4J19014	10/19/04	10/19/04	BSOPSPL003R08	
WP-8-11 (B4J0416-03) Soil Sampled: 10/06/04 13:45 Received: 10/08/04 16:30										
Dry Weight	83.3	1.00		%	1	4J19032	10/19/04	10/20/04	BSOPSPL003R08	
WP-9-11 (B4J0416-04) Soil Sampled: 10/06/04 11:00 Received: 10/08/04 16:30										
Dry Weight	92.5	1.00		%	1	4J20012	10/20/04	10/20/04	BSOPSPL003R08	
MW-7-10 (B4J0416-05) Soil Sampled: 10/05/04 11:00 Received: 10/08/04 16:30										
Dry Weight	76.1	1.00		%	1	4J18053	10/18/04	10/19/04	BSOPSPL003R08	
MW-1A-10 (B4J0416-06) Soil Sampled: 10/05/04 13:20 Received: 10/08/04 16:30										
Dry Weight	77.5	1.00		%	1	4J18053	10/18/04	10/19/04	BSOPSPL003R08	
MW-8-13 (B4J0416-07) Soil Sampled: 10/05/04 16:50 Received: 10/08/04 16:30										
Dry Weight	78.1	1.00		%	1	4J18053	10/18/04	10/19/04	BSOPSPL003R08	
WP-13-12 (B4J0416-08) Soil Sampled: 10/04/04 13:50 Received: 10/08/04 16:30										
Dry Weight	84.1	1.00		%	1	4J18053	10/18/04	10/19/04	BSOPSPL003R08	
WP-2A-10 (B4J0416-09) Soil Sampled: 10/06/04 14:20 Received: 10/08/04 16:30										
Dry Weight	100	1.00		%	1	4J29031	10/29/04	10/29/04	BSOPSPL003R08	

North Creek Analytical - Bothell

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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/07/04 17:13
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Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-4M-11 (B4J0416-10) Soil Sampled: 10/07/04 09:50 Received: 10/08/04 16:30										
Dry Weight	95.9	1.00		%	1	4J18053	10/18/04	10/19/04	BSOPSP003R08	
WP-3A-10 (B4J0416-11) Soil Sampled: 10/07/04 11:25 Received: 10/08/04 16:30										
Dry Weight	94.0	1.00		%	1	4J18053	10/18/04	10/19/04	BSOPSP003R08	
WP-6-10 (B4J0416-12) Soil Sampled: 10/07/04 12:10 Received: 10/08/04 16:30										
Dry Weight	81.5	1.00		%	1	4J18053	10/18/04	10/19/04	BSOPSP003R08	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Gasoline Range Hydrocarbons (n-Hexane to <n-Decane) by AK101 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J22005: Prepared 10/22/04 Using EPA 5030B (MeOH)

Blank (4J22005-BLK1)

Gasoline Range Hydrocarbons	ND	5.00	mg/kg							
Surrogate: 4-BFB (FID)	2.05		"	2.40		85.4	60-120			
Surrogate: a,a,a-TFT (FID)	2.34		"	2.40		97.5	50-150			

LCS (4J22005-BS1)

Gasoline Range Hydrocarbons	24.0	5.00	mg/kg	25.1		95.6	60-120			
Surrogate: 4-BFB (FID)	2.23		"	2.40		92.9	60-120			
Surrogate: a,a,a-TFT (FID)	2.45		"	2.40		102	50-150			

LCS Dup (4J22005-BSD1)

Gasoline Range Hydrocarbons	24.3	5.00	mg/kg	25.1		96.8	60-120	1.24	20	
Surrogate: 4-BFB (FID)	2.34		"	2.40		97.5	60-120			
Surrogate: a,a,a-TFT (FID)	2.54		"	2.40		106	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18022: Prepared 10/18/04 Using EPA 5030B (MeOH)

Blank (4J18022-BLK1)

Gasoline Range Hydrocarbons	ND	5.00	mg/kg							
Benzene	ND	0.0200	"							
Toluene	ND	0.0500	"							
Ethylbenzene	ND	0.0500	"							
Xylenes (total)	ND	0.100	"							
Surrogate: 4-BFB (FID)	2.14		"	2.40		89.2	60-120			
Surrogate: a,a,a-TFT (FID)	2.44		"	2.40		102	50-150			
Surrogate: 4-BFB (PID)	2.09		"	2.40		87.1	60-120			
Surrogate: a,a,a-TFT (PID)	2.38		"	2.40		99.2	50-150			

LCS (4J18022-BS1)

Gasoline Range Hydrocarbons	26.0	5.00	mg/kg	25.1		104	60-120			
Benzene	0.289	0.0200	"	0.310		93.2	75-125			
Toluene	1.67	0.0500	"	1.75		95.4	75-125			
Ethylbenzene	0.409	0.0500	"	0.419		97.6	75-125			
Xylenes (total)	2.01	0.100	"	2.03		99.0	75-125			
Surrogate: 4-BFB (FID)	2.48		"	2.40		103	60-120			
Surrogate: a,a,a-TFT (FID)	2.57		"	2.40		107	50-150			
Surrogate: 4-BFB (PID)	2.14		"	2.40		89.2	60-120			
Surrogate: a,a,a-TFT (PID)	2.36		"	2.40		98.3	50-150			

LCS Dup (4J18022-BSD1)

Gasoline Range Hydrocarbons	27.0	5.00	mg/kg	25.1		108	60-120	3.77	20	
Benzene	0.304	0.0200	"	0.310		98.1	75-125	5.06	25	
Toluene	1.74	0.0500	"	1.75		99.4	75-125	4.11	25	
Ethylbenzene	0.425	0.0500	"	0.419		101	75-125	3.84	25	
Xylenes (total)	2.11	0.100	"	2.03		104	75-125	4.85	25	
Surrogate: 4-BFB (FID)	2.49		"	2.40		104	60-120			
Surrogate: a,a,a-TFT (FID)	2.56		"	2.40		107	50-150			
Surrogate: 4-BFB (PID)	2.13		"	2.40		88.8	60-120			
Surrogate: a,a,a-TFT (PID)	2.34		"	2.40		97.5	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Diesel Hydrocarbons (C10-C25) by AK102 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15001: Prepared 10/15/04 Using EPA 3550B

Blank (4J15001-BLK1)

Diesel Range Hydrocarbons	ND	4.00	mg/kg							
Surrogate: 2-FBP	6.18		"	8.40		73.6	50-150			

LCS (4J15001-BS1)

Diesel Range Hydrocarbons	61.6	4.00	mg/kg	74.8		82.4	75-125			
Surrogate: 2-FBP	6.43		"	8.40		76.5	50-150			

LCS Dup (4J15001-BSD1)

Diesel Range Hydrocarbons	68.4	4.00	mg/kg	74.8		91.4	75-125	10.5	20	
Surrogate: 2-FBP	6.87		"	8.40		81.8	50-150			

Matrix Spike (4J15001-MS1)

Source: B4J0501-09

Diesel Range Hydrocarbons	144	9.24	mg/kg dry	173	7.60	78.8	75-125			
Surrogate: 2-FBP	16.8		"	19.4		86.6	50-150			

Matrix Spike Dup (4J15001-MSD1)

Source: B4J0501-09

Diesel Range Hydrocarbons	150	9.24	mg/kg dry	173	7.60	82.3	75-125	4.08	20	
Surrogate: 2-FBP	16.9		"	19.4		87.1	50-150			

Batch 4J20022: Prepared 10/20/04 Using EPA 3550B

Blank (4J20022-BLK1)

Diesel Range Hydrocarbons	ND	4.00	mg/kg							
Surrogate: 2-FBP	6.18		"	8.40		73.6	50-150			

LCS (4J20022-BS1)

Diesel Range Hydrocarbons	68.0	4.00	mg/kg	74.8		90.9	75-125			
Surrogate: 2-FBP	6.81		"	8.40		81.1	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/07/04 17:13

Diesel Hydrocarbons (C10-C25) by AK102 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J20022: Prepared 10/20/04 Using EPA 3550B

LCS Dup (4J20022-BSD1)

Diesel Range Hydrocarbons	72.0	4.00	mg/kg	74.8		96.3	75-125	5.71	20	
Surrogate: 2-FBP	7.58		"	8.40		90.2	50-150			

Matrix Spike (4J20022-MS1)

Source: B4J0416-03

Diesel Range Hydrocarbons	73.9	4.00	mg/kg dry	88.0	ND	84.0	75-125			
Surrogate: 2-FBP	7.68		"	9.89		77.7	50-150			

Matrix Spike Dup (4J20022-MSD1)

Source: B4J0416-03

Diesel Range Hydrocarbons	77.4	4.00	mg/kg dry	88.0	ND	88.0	75-125	4.63	20	
Surrogate: 2-FBP	7.76		"	9.89		78.5	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18058: Prepared 10/18/04 Using EPA 3550B

Blank (4J18058-BLK1)

Diesel Range Hydrocarbons	ND	4.00	mg/kg							
Residual Range Organics	ND	25.0	"							
Surrogate: 2-FBP	7.59		"	8.40		90.4	50-150			
Surrogate: Octacosane	9.66		"	8.00		121	50-150			

LCS (4J18058-BS1)

Diesel Range Hydrocarbons	71.0	4.00	mg/kg	74.8		94.9	75-125			
Surrogate: 2-FBP	7.10		"	8.40		84.5	50-150			

LCS (4J18058-BS2)

Residual Range Organics	75.1	25.0	mg/kg	80.0		93.9	60-120			
Surrogate: Octacosane	8.91		"	8.00		111	50-150			

LCS Dup (4J18058-BSD1)

Diesel Range Hydrocarbons	71.3	4.00	mg/kg	74.8		95.3	75-125	0.422	20	
Surrogate: 2-FBP	7.23		"	8.40		86.1	50-150			

LCS Dup (4J18058-BSD2)

Residual Range Organics	72.4	25.0	mg/kg	80.0		90.5	60-120	3.66	20	
Surrogate: Octacosane	8.77		"	8.00		110	50-150			

Matrix Spike (4J18058-MS1)

Source: B4J0416-10

Diesel Range Hydrocarbons	750	40.0	mg/kg dry	77.4	805	-71.1	75-125			Q-03
Surrogate: 2-FBP	6.17		"	8.69		71.0	50-150			

Matrix Spike Dup (4J18058-MSD1)

Source: B4J0416-10

Diesel Range Hydrocarbons	894	40.0	mg/kg dry	78.9	805	113	75-125	17.5	20	
Surrogate: 2-FBP	8.00		"	8.87		90.2	50-150			

North Creek Analytical - Bothell

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

BTEX by EPA Method 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J22005: Prepared 10/22/04 Using EPA 5030B (MeOH)

Blank (4J22005-BLK1)

Benzene	ND	0.0150	mg/kg							
Toluene	ND	0.0500	"							
Ethylbenzene	ND	0.0500	"							
Xylenes (total)	ND	0.100	"							
Surrogate: 4-BFB (PID)	2.10		"	2.40		87.5	60-120			
Surrogate: a,a,a-TFT (PID)	2.36		"	2.40		98.3	50-150			

LCS (4J22005-BS1)

Benzene	0.300	0.0150	mg/kg	0.310		96.8	75-125			
Toluene	1.72	0.0500	"	1.75		98.3	75-125			
Ethylbenzene	0.417	0.0500	"	0.419		99.5	75-125			
Xylenes (total)	2.08	0.100	"	2.03		102	75-125			
Surrogate: 4-BFB (PID)	2.12		"	2.40		88.3	60-120			
Surrogate: a,a,a-TFT (PID)	2.46		"	2.40		102	50-150			

LCS Dup (4J22005-BSD1)

Benzene	0.291	0.0150	mg/kg	0.310		93.9	75-125	3.05	25	
Toluene	1.66	0.0500	"	1.75		94.9	75-125	3.55	25	
Ethylbenzene	0.405	0.0500	"	0.419		96.7	75-125	2.92	25	
Xylenes (total)	2.01	0.100	"	2.03		99.0	75-125	3.42	25	
Surrogate: 4-BFB (PID)	2.11		"	2.40		87.9	60-120			
Surrogate: a,a,a-TFT (PID)	2.39		"	2.40		99.6	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

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12/07/04 17:13

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J18044: Prepared 10/18/04 Using EPA 3050B										
Blank (4J18044-BLK1)										
Lead	ND	0.500	mg/kg							
LCS (4J18044-BS1)										
Lead	40.6	0.500	mg/kg	40.0		102	80-120			
LCS Dup (4J18044-BSD1)										
Lead	39.6	0.500	mg/kg	38.5		103	80-120	2.49	20	
Matrix Spike (4J18044-MS1) Source: B4J0394-14										
Lead	48.6	0.500	mg/kg dry	40.7	8.84	97.7	62-137			
Matrix Spike Dup (4J18044-MSD1) Source: B4J0394-14										
Lead	60.2	0.500	mg/kg dry	44.0	8.84	117	62-137	21.3	30	
Post Spike (4J18044-PS1) Source: B4J0394-14										
Lead	0.114		ug/ml	0.0995	0.0166	97.9	75-125			

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Spike Level	Source	%REC		RPD		Notes
		Limit			Result	%REC	Limits	RPD	Limit	

Batch 4J14041: Prepared 10/14/04 Using EPA 5030B [MeOH]

Blank (4J14041-BLK1)

Acetone	ND	1.00	mg/kg
Benzene	ND	0.0200	"
Bromobenzene	ND	0.100	"
Bromochloromethane	ND	0.100	"
Bromodichloromethane	ND	0.100	"
Bromoform	ND	0.100	"
Bromomethane	ND	0.100	"
2-Butanone	ND	1.00	"
n-Butylbenzene	ND	0.100	"
sec-Butylbenzene	ND	0.100	"
tert-Butylbenzene	ND	0.100	"
Carbon disulfide	ND	0.100	"
Carbon tetrachloride	ND	0.100	"
Chlorobenzene	ND	0.100	"
Chloroethane	ND	0.100	"
Chloroform	ND	0.100	"
Chloromethane	ND	0.500	"
2-Chlorotoluene	ND	0.100	"
4-Chlorotoluene	ND	0.100	"
Dibromochloromethane	ND	0.100	"
1,2-Dibromo-3-chloropropane	ND	0.500	"
1,2-Dibromoethane	ND	0.100	"
Dibromomethane	ND	0.100	"
1,2-Dichlorobenzene	ND	0.100	"
1,3-Dichlorobenzene	ND	0.100	"
1,4-Dichlorobenzene	ND	0.100	"
Dichlorodifluoromethane	ND	0.100	"
1,1-Dichloroethane	ND	0.100	"
1,2-Dichloroethane	ND	0.100	"
1,1-Dichloroethene	ND	0.100	"
cis-1,2-Dichloroethene	ND	0.100	"
trans-1,2-Dichloroethene	ND	0.100	"
1,2-Dichloropropane	ND	0.100	"
1,3-Dichloropropane	ND	0.100	"
2,2-Dichloropropane	ND	0.100	"

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14041: Prepared 10/14/04 Using EPA 5030B [MeOH]

Blank (4J14041-BLK1)

1,1-Dichloropropene	ND	0.100	mg/kg							
cis-1,3-Dichloropropene	ND	0.100	"							
trans-1,3-Dichloropropene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Hexachlorobutadiene	ND	0.100	"							
Methyl tert-butyl ether	ND	0.500	"							
2-Hexanone	ND	1.00	"							
Isopropylbenzene	ND	0.100	"							
p-Isopropyltoluene	ND	0.100	"							
4-Methyl-2-pentanone	ND	1.00	"							
Methylene chloride	ND	1.00	"							
Naphthalene	ND	0.100	"							
n-Propylbenzene	ND	0.100	"							
Styrene	ND	0.100	"							
1,2,3-Trichlorobenzene	ND	0.100	"							
1,2,4-Trichlorobenzene	ND	0.100	"							
1,1,1,2-Tetrachloroethane	ND	0.100	"							
1,1,1,2,2-Tetrachloroethane	ND	0.100	"							
Tetrachloroethene	ND	0.100	"							
Toluene	ND	0.100	"							
1,1,1-Trichloroethane	ND	0.100	"							
1,1,2-Trichloroethane	ND	0.100	"							
Trichloroethene	ND	0.100	"							
Trichlorofluoromethane	ND	0.100	"							
1,2,3-Trichloropropane	ND	0.100	"							
1,2,4-Trimethylbenzene	ND	0.100	"							
1,3,5-Trimethylbenzene	ND	0.100	"							
Vinyl chloride	ND	0.100	"							
o-Xylene	ND	0.100	"							
m,p-Xylene	ND	0.200	"							
<i>Surrogate: 1,2-DCA-d4</i>	<i>1.94</i>	<i>"</i>	<i>"</i>	<i>2.00</i>	<i>97.0</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>1.97</i>	<i>"</i>	<i>"</i>	<i>2.00</i>	<i>98.5</i>	<i>70-130</i>				
<i>Surrogate: 4-BFB</i>	<i>1.95</i>	<i>"</i>	<i>"</i>	<i>2.00</i>	<i>97.5</i>	<i>70-130</i>				

North Creek Analytical - Bothell

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Project Manager: Andy Dimitriou

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14041: Prepared 10/14/04 Using EPA 5030B [MeOH]

LCS (4J14041-BS1)

Benzene	0.936	0.0200	mg/kg	1.00		93.6	75-125			
Chlorobenzene	0.959	0.100	"	1.00		95.9	74-128			
1,1-Dichloroethene	1.11	0.100	"	1.00		111	57-122			
Methyl tert-butyl ether	1.01	0.500	"	1.00		101	75-125			
Toluene	0.912	0.100	"	1.00		91.2	74-121			
Trichloroethene	0.902	0.100	"	1.00		90.2	72-122			
Surrogate: 1,2-DCA-d4	1.95		"	2.00		97.5	70-130			
Surrogate: Toluene-d8	1.94		"	2.00		97.0	70-130			
Surrogate: 4-BFB	1.97		"	2.00		98.5	70-130			

LCS Dup (4J14041-BSD1)

Benzene	0.947	0.0200	mg/kg	1.00		94.7	75-125	1.17	20	
Chlorobenzene	0.993	0.100	"	1.00		99.3	74-128	3.48	20	
1,1-Dichloroethene	1.14	0.100	"	1.00		114	57-122	2.67	20	
Methyl tert-butyl ether	0.996	0.500	"	1.00		99.6	75-125	1.40	20	
Toluene	0.952	0.100	"	1.00		95.2	74-121	4.29	20	
Trichloroethene	0.916	0.100	"	1.00		91.6	72-122	1.54	20	
Surrogate: 1,2-DCA-d4	1.96		"	2.00		98.0	70-130			
Surrogate: Toluene-d8	1.99		"	2.00		99.5	70-130			
Surrogate: 4-BFB	1.97		"	2.00		98.5	70-130			

Matrix Spike (4J14041-MS1)

Source: B4J0416-12

A-01b

Benzene	0.688	0.0115	mg/kg dry	0.708	ND	97.2	61-130			
Chlorobenzene	0.712	0.0577	"	0.708	ND	101	62-129			
1,1-Dichloroethene	0.773	0.0577	"	0.708	ND	109	42-127			
Methyl tert-butyl ether	0.734	0.289	"	0.708	ND	104	50-150			
Toluene	0.690	0.0577	"	0.708	0.0106	96.0	62-125			
Trichloroethene	0.663	0.0577	"	0.708	ND	93.6	55-130			
Surrogate: 1,2-DCA-d4	1.43		"	1.42		101	70-130			
Surrogate: Toluene-d8	1.40		"	1.42		98.6	70-130			
Surrogate: 4-BFB	1.40		"	1.42		98.6	70-130			

North Creek Analytical - Bothell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14041: Prepared 10/14/04 Using EPA 5030B [MeOH]

Matrix Spike Dup (4J14041-MSD1)	Source: B4J0416-12								A-01a
Benzene	0.654	0.0115	mg/kg dry	0.708	ND	92.4	61-130	5.07	25
Chlorobenzene	0.682	0.0577	"	0.708	ND	96.3	62-129	4.30	25
1,1-Dichloroethene	0.793	0.0577	"	0.708	ND	112	42-127	2.55	25
Methyl tert-butyl ether	0.720	0.289	"	0.708	ND	102	50-150	1.93	25
Toluene	0.653	0.0577	"	0.708	0.0106	90.7	62-125	5.51	25
Trichloroethene	0.642	0.0577	"	0.708	ND	90.7	55-130	3.22	25
<i>Surrogate: 1,2-DCA-d4</i>	<i>1.41</i>		<i>"</i>	<i>1.42</i>		<i>99.3</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>1.39</i>		<i>"</i>	<i>1.42</i>		<i>97.9</i>	<i>70-130</i>		
<i>Surrogate: 4-BFB</i>	<i>1.40</i>		<i>"</i>	<i>1.42</i>		<i>98.6</i>	<i>70-130</i>		

Batch 4J15059: Prepared 10/18/04 Using EPA 5030B [MeOH]

Blank (4J15059-BLK1)

Acetone	ND	1.00	mg/kg
Benzene	ND	0.0200	"
Bromobenzene	ND	0.100	"
Bromochloromethane	ND	0.100	"
Bromodichloromethane	ND	0.100	"
Bromoform	ND	0.100	"
Bromomethane	ND	0.100	"
2-Butanone	ND	1.00	"
n-Butylbenzene	ND	0.100	"
sec-Butylbenzene	ND	0.100	"
tert-Butylbenzene	ND	0.100	"
Carbon disulfide	ND	0.100	"
Carbon tetrachloride	ND	0.100	"
Chlorobenzene	ND	0.100	"
Chloroethane	ND	0.100	"
Chloroform	ND	0.100	"
Chloromethane	ND	0.500	"
2-Chlorotoluene	ND	0.100	"
4-Chlorotoluene	ND	0.100	"
Dibromochloromethane	ND	0.100	"
1,2-Dibromo-3-chloropropane	ND	0.500	"
1,2-Dibromoethane	ND	0.100	"
Dibromomethane	ND	0.100	"

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15059: Prepared 10/18/04 Using EPA 5030B [MeOH]

Blank (4J15059-BLK1)

1,2-Dichlorobenzene	ND	0.100	mg/kg							
1,3-Dichlorobenzene	ND	0.100	"							
1,4-Dichlorobenzene	ND	0.100	"							
Dichlorodifluoromethane	ND	0.100	"							
1,1-Dichloroethane	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
1,1-Dichloroethene	ND	0.100	"							
cis-1,2-Dichloroethene	ND	0.100	"							
trans-1,2-Dichloroethene	ND	0.100	"							
1,2-Dichloropropane	ND	0.100	"							
1,3-Dichloropropane	ND	0.100	"							
2,2-Dichloropropane	ND	0.100	"							
1,1-Dichloropropene	ND	0.100	"							
cis-1,3-Dichloropropene	ND	0.100	"							
trans-1,3-Dichloropropene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Hexachlorobutadiene	ND	0.100	"							
Methyl tert-butyl ether	ND	0.500	"							
2-Hexanone	ND	1.00	"							
Isopropylbenzene	ND	0.100	"							
p-Isopropyltoluene	ND	0.100	"							
4-Methyl-2-pentanone	ND	1.00	"							
Methylene chloride	ND	1.00	"							
Naphthalene	ND	0.100	"							
n-Propylbenzene	ND	0.100	"							
Styrene	ND	0.100	"							
1,2,3-Trichlorobenzene	ND	0.100	"							
1,2,4-Trichlorobenzene	ND	0.100	"							
1,1,1,2-Tetrachloroethane	ND	0.100	"							
1,1,1,2,2-Tetrachloroethane	ND	0.100	"							
Tetrachloroethene	ND	0.100	"							
Toluene	ND	0.100	"							
1,1,1-Trichloroethane	ND	0.100	"							
1,1,2-Trichloroethane	ND	0.100	"							
Trichloroethene	ND	0.100	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15059: Prepared 10/18/04 Using EPA 5030B [MeOH]

Blank (4J15059-BLK1)

Trichlorofluoromethane	ND	0.100	mg/kg							
1,2,3-Trichloropropane	ND	0.100	"							
1,2,4-Trimethylbenzene	ND	0.100	"							
1,3,5-Trimethylbenzene	ND	0.100	"							
Vinyl chloride	ND	0.100	"							
o-Xylene	ND	0.100	"							
m,p-Xylene	ND	0.200	"							
<i>Surrogate: 1,2-DCA-d4</i>	2.20		"	2.00		110	70-130			
<i>Surrogate: Toluene-d8</i>	2.11		"	2.00		106	70-130			
<i>Surrogate: 4-BFB</i>	2.08		"	2.00		104	70-130			

LCS (4J15059-BS1)

Benzene	0.974	0.0200	mg/kg	1.00		97.4	75-125			
Chlorobenzene	1.00	0.100	"	1.00		100	74-128			
1,1-Dichloroethene	1.12	0.100	"	1.00		112	57-122			
Methyl tert-butyl ether	1.02	0.500	"	1.00		102	75-125			
Toluene	0.979	0.100	"	1.00		97.9	74-121			
Trichloroethene	0.926	0.100	"	1.00		92.6	72-122			
<i>Surrogate: 1,2-DCA-d4</i>	2.23		"	2.00		112	70-130			
<i>Surrogate: Toluene-d8</i>	2.08		"	2.00		104	70-130			
<i>Surrogate: 4-BFB</i>	2.01		"	2.00		100	70-130			

LCS Dup (4J15059-BSD1)

Benzene	0.959	0.0200	mg/kg	1.00		95.9	75-125	1.55	20	
Chlorobenzene	0.990	0.100	"	1.00		99.0	74-128	1.01	20	
1,1-Dichloroethene	1.13	0.100	"	1.00		113	57-122	0.889	20	
Methyl tert-butyl ether	0.964	0.500	"	1.00		96.4	75-125	5.65	20	
Toluene	0.972	0.100	"	1.00		97.2	74-121	0.718	20	
Trichloroethene	0.922	0.100	"	1.00		92.2	72-122	0.433	20	
<i>Surrogate: 1,2-DCA-d4</i>	2.15		"	2.00		108	70-130			
<i>Surrogate: Toluene-d8</i>	2.08		"	2.00		104	70-130			
<i>Surrogate: 4-BFB</i>	2.03		"	2.00		102	70-130			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J20032: Prepared 10/20/04 Using EPA 5030B [MeOH]

Blank (4J20032-BLK1)

Acetone	ND	1.00	mg/kg							
Benzene	ND	0.0200	"							
Bromobenzene	ND	0.100	"							
Bromochloromethane	ND	0.100	"							
Bromodichloromethane	ND	0.100	"							
Bromoform	ND	0.100	"							
Bromomethane	ND	0.100	"							
2-Butanone	ND	1.00	"							
n-Butylbenzene	ND	0.100	"							
sec-Butylbenzene	ND	0.100	"							
tert-Butylbenzene	ND	0.100	"							
Carbon disulfide	ND	0.100	"							
Carbon tetrachloride	ND	0.100	"							
Chlorobenzene	ND	0.100	"							
Chloroethane	ND	0.100	"							
Chloroform	ND	0.100	"							
Chloromethane	ND	0.500	"							
2-Chlorotoluene	ND	0.100	"							
4-Chlorotoluene	ND	0.100	"							
Dibromochloromethane	ND	0.100	"							
1,2-Dibromo-3-chloropropane	ND	0.500	"							
1,2-Dibromoethane	ND	0.100	"							
Dibromomethane	ND	0.100	"							
1,2-Dichlorobenzene	ND	0.100	"							
1,3-Dichlorobenzene	ND	0.100	"							
1,4-Dichlorobenzene	ND	0.100	"							
Dichlorodifluoromethane	ND	0.100	"							
1,1-Dichloroethane	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
1,1-Dichloroethene	ND	0.100	"							
cis-1,2-Dichloroethene	ND	0.100	"							
trans-1,2-Dichloroethene	ND	0.100	"							
1,2-Dichloropropane	ND	0.100	"							
1,3-Dichloropropane	ND	0.100	"							
2,2-Dichloropropane	ND	0.100	"							

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J20032: Prepared 10/20/04 Using EPA 5030B [MeOH]

Blank (4J20032-BLK1)

1,1-Dichloropropene	ND	0.100	mg/kg							
cis-1,3-Dichloropropene	ND	0.100	"							
trans-1,3-Dichloropropene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Hexachlorobutadiene	ND	0.100	"							
Methyl tert-butyl ether	ND	0.500	"							
2-Hexanone	ND	1.00	"							
Isopropylbenzene	ND	0.100	"							
p-Isopropyltoluene	ND	0.100	"							
4-Methyl-2-pentanone	ND	1.00	"							
Methylene chloride	ND	1.00	"							
Naphthalene	ND	0.100	"							
n-Propylbenzene	ND	0.100	"							
Styrene	ND	0.100	"							
1,2,3-Trichlorobenzene	ND	0.100	"							
1,2,4-Trichlorobenzene	ND	0.100	"							
1,1,1,2-Tetrachloroethane	ND	0.100	"							
1,1,2,2-Tetrachloroethane	ND	0.100	"							
Tetrachloroethene	ND	0.100	"							
Toluene	ND	0.100	"							
1,1,1-Trichloroethane	ND	0.100	"							
1,1,2-Trichloroethane	ND	0.100	"							
Trichloroethene	ND	0.100	"							
Trichlorofluoromethane	ND	0.100	"							
1,2,3-Trichloropropane	ND	0.100	"							
1,2,4-Trimethylbenzene	ND	0.100	"							
1,3,5-Trimethylbenzene	ND	0.100	"							
Vinyl chloride	ND	0.100	"							
o-Xylene	ND	0.100	"							
m,p-Xylene	ND	0.200	"							
Surrogate: 1,2-DCA-d4	2.00		"	2.00		100	70-130			
Surrogate: Toluene-d8	2.02		"	2.00		101	70-130			
Surrogate: 4-BFB	2.09		"	2.00		104	70-130			

North Creek Analytical - Bothell

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

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12/07/04 17:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Spike Level	Source	%REC		RPD		Notes
		Limit			Result	%REC	Limits	RPD	Limit	

Batch 4J20032: Prepared 10/20/04 Using EPA 5030B [MeOH]

LCS (4J20032-BS1)

Benzene	1.98	0.0200	mg/kg	2.00		99.0	75-125			
Chlorobenzene	1.97	0.100	"	2.00		98.5	74-128			
1,1-Dichloroethene	2.00	0.100	"	2.00		100	57-122			
Methyl tert-butyl ether	1.92	0.500	"	2.00		96.0	75-125			
Toluene	1.92	0.100	"	2.00		96.0	74-121			
Trichloroethene	1.94	0.100	"	2.00		97.0	72-122			
<i>Surrogate: 1,2-DCA-d4</i>	<i>1.90</i>		<i>"</i>	<i>2.00</i>		<i>95.0</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>1.95</i>		<i>"</i>	<i>2.00</i>		<i>97.5</i>	<i>70-130</i>			
<i>Surrogate: 4-BFB</i>	<i>1.96</i>		<i>"</i>	<i>2.00</i>		<i>98.0</i>	<i>70-130</i>			

LCS Dup (4J20032-BSD1)

Benzene	2.04	0.0200	mg/kg	2.00		102	75-125	2.99	20	
Chlorobenzene	2.00	0.100	"	2.00		100	74-128	1.51	20	
1,1-Dichloroethene	2.01	0.100	"	2.00		100	57-122	0.499	20	
Methyl tert-butyl ether	2.00	0.500	"	2.00		100	75-125	4.08	20	
Toluene	1.98	0.100	"	2.00		99.0	74-121	3.08	20	
Trichloroethene	1.99	0.100	"	2.00		99.5	72-122	2.54	20	
<i>Surrogate: 1,2-DCA-d4</i>	<i>1.97</i>		<i>"</i>	<i>2.00</i>		<i>98.5</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>1.97</i>		<i>"</i>	<i>2.00</i>		<i>98.5</i>	<i>70-130</i>			
<i>Surrogate: 4-BFB</i>	<i>1.99</i>		<i>"</i>	<i>2.00</i>		<i>99.5</i>	<i>70-130</i>			

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18032: Prepared 10/18/04 Using EPA 3545

Blank (4J18032-BLK1)

1-Methylnaphthalene	ND	0.0100	mg/kg							
2-Methylnaphthalene	ND	0.0100	"							
Acenaphthene	ND	0.0100	"							
Acenaphthylene	ND	0.0100	"							
Anthracene	ND	0.0100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.0100	"							
Fluorene	ND	0.0100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
Naphthalene	ND	0.0100	"							
Phenanthrene	ND	0.0100	"							
Pyrene	ND	0.0100	"							
<i>Surrogate: p-Terphenyl-d14</i>	<i>2.41</i>		<i>"</i>	<i>1.67</i>		<i>144</i>	<i>28-161</i>			

LCS (4J18032-BS2)

1-Methylnaphthalene	0.419	0.0100	mg/kg	0.333		126	50-150			
2-Methylnaphthalene	0.374	0.0100	"	0.333		112	50-150			
Acenaphthene	0.380	0.0100	"	0.333		114	53-120			
Acenaphthylene	0.381	0.0100	"	0.333		114	52-120			
Anthracene	0.346	0.0100	"	0.333		104	39-145			
Benzo (a) anthracene	0.304	0.0100	"	0.333		91.3	64-120			
Benzo (a) pyrene	0.385	0.0100	"	0.333		116	65-120			
Benzo (b) fluoranthene	0.344	0.0100	"	0.333		103	52-139			
Benzo (ghi) perylene	0.379	0.0100	"	0.333		114	54-125			
Benzo (k) fluoranthene	0.335	0.0100	"	0.333		101	47-138			
Chrysene	0.402	0.0100	"	0.333		121	57-125			
Dibenz (a,h) anthracene	0.380	0.0100	"	0.333		114	52-120			
Fluoranthene	0.348	0.0100	"	0.333		105	61-128			
Fluorene	0.389	0.0100	"	0.333		117	63-120			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18032: Prepared 10/18/04 Using EPA 3545

LCS (4J18032-BS2)

Indeno (1,2,3-cd) pyrene	0.383	0.0100	mg/kg	0.333		115	54-128			
Naphthalene	0.376	0.0100	"	0.333		113	54-120			
Phenanthrene	0.331	0.0100	"	0.333		99.4	28-120			
Pyrene	0.386	0.0100	"	0.333		116	59-124			
<i>Surrogate: p-Terphenyl-d14</i>	2.38		"	1.67		143	28-161			

LCS Dup (4J18032-BSD2)

1-Methylnaphthalene	0.424	0.0100	mg/kg	0.333		127	50-150	1.19	40	
2-Methylnaphthalene	0.372	0.0100	"	0.333		112	50-150	0.536	40	
Acenaphthene	0.373	0.0100	"	0.333		112	53-120	1.86	40	
Acenaphthylene	0.380	0.0100	"	0.333		114	52-120	0.263	40	
Anthracene	0.340	0.0100	"	0.333		102	39-145	1.75	40	
Benzo (a) anthracene	0.302	0.0100	"	0.333		90.7	64-120	0.660	40	
Benzo (a) pyrene	0.376	0.0100	"	0.333		113	65-120	2.37	40	
Benzo (b) fluoranthene	0.354	0.0100	"	0.333		106	52-139	2.87	40	
Benzo (ghi) perylene	0.371	0.0100	"	0.333		111	54-125	2.13	40	
Benzo (k) fluoranthene	0.360	0.0100	"	0.333		108	47-138	7.19	40	
Chrysene	0.415	0.0100	"	0.333		125	57-125	3.18	24	
Dibenz (a,h) anthracene	0.365	0.0100	"	0.333		110	52-120	4.03	40	
Fluoranthene	0.342	0.0100	"	0.333		103	61-128	1.74	40	
Fluorene	0.382	0.0100	"	0.333		115	63-120	1.82	43	
Indeno (1,2,3-cd) pyrene	0.368	0.0100	"	0.333		111	54-128	3.99	39	
Naphthalene	0.374	0.0100	"	0.333		112	54-120	0.533	40	
Phenanthrene	0.336	0.0100	"	0.333		101	28-120	1.50	40	
Pyrene	0.411	0.0100	"	0.333		123	59-124	6.27	40	
<i>Surrogate: p-Terphenyl-d14</i>	2.50		"	1.67		150	28-161			

North Creek Analytical - Bothell

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12/07/04 17:13

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18059: Prepared 10/18/04 Using EPA 3545

Blank (4J18059-BLK1)

1-Methylnaphthalene	ND	0.0100	mg/kg							
2-Methylnaphthalene	ND	0.0100	"							
Acenaphthene	ND	0.0100	"							
Acenaphthylene	ND	0.0100	"							
Anthracene	ND	0.0100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							X
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Chrysene	ND	0.0100	"							X
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.0100	"							
Fluorene	ND	0.0100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
Naphthalene	ND	0.0100	"							
Phenanthrene	ND	0.0100	"							
Pyrene	ND	0.0100	"							X
<i>Surrogate: p-Terphenyl-d14</i>	2.64		"	1.67		158	28-161			

LCS (4J18059-BS2)

1-Methylnaphthalene	0.373	0.0100	mg/kg	0.333		112	50-150			
2-Methylnaphthalene	0.370	0.0100	"	0.333		111	50-150			
Acenaphthene	0.377	0.0100	"	0.333		113	53-120			
Acenaphthylene	0.387	0.0100	"	0.333		116	52-120			
Anthracene	0.418	0.0100	"	0.333		126	39-145			
Benzo (a) anthracene	0.351	0.0100	"	0.333		105	64-120			
Benzo (a) pyrene	0.404	0.0100	"	0.333		121	65-120			X
Benzo (b) fluoranthene	0.447	0.0100	"	0.333		134	52-139			
Benzo (ghi) perylene	0.326	0.0100	"	0.333		97.9	54-125			
Benzo (k) fluoranthene	0.343	0.0100	"	0.333		103	47-138			
Chrysene	0.420	0.0100	"	0.333		126	57-125			X
Dibenz (a,h) anthracene	0.310	0.0100	"	0.333		93.1	52-120			
Fluoranthene	0.358	0.0100	"	0.333		108	61-128			
Fluorene	0.393	0.0100	"	0.333		118	63-120			

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Project Manager: Andy Dimitriou

Reported:
12/07/04 17:13

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4J18059: Prepared 10/18/04 Using EPA 3545

LCS (4J18059-BS2)

Indeno (1,2,3-cd) pyrene	0.309	0.0100	mg/kg	0.333		92.8	54-128			
Naphthalene	0.382	0.0100	"	0.333		115	54-120			
Phenanthrene	0.336	0.0100	"	0.333		101	28-120			
Pyrene	0.423	0.0100	"	0.333		127	59-124			X
<i>Surrogate: p-Terphenyl-d14</i>	<i>2.32</i>		<i>"</i>	<i>1.67</i>		<i>139</i>	<i>28-161</i>			

LCS Dup (4J18059-BSD2)

1-Methylnaphthalene	0.361	0.0100	mg/kg	0.333		108	50-150	3.27	40	
2-Methylnaphthalene	0.362	0.0100	"	0.333		109	50-150	2.19	40	
Acenaphthene	0.371	0.0100	"	0.333		111	53-120	1.60	40	
Acenaphthylene	0.386	0.0100	"	0.333		116	52-120	0.259	40	
Anthracene	0.420	0.0100	"	0.333		126	39-145	0.477	40	
Benzo (a) anthracene	0.367	0.0100	"	0.333		110	64-120	4.46	40	
Benzo (a) pyrene	0.425	0.0100	"	0.333		128	65-120	5.07	40	X
Benzo (b) fluoranthene	0.457	0.0100	"	0.333		137	52-139	2.21	40	
Benzo (ghi) perylene	0.339	0.0100	"	0.333		102	54-125	3.91	40	
Benzo (k) fluoranthene	0.351	0.0100	"	0.333		105	47-138	2.31	40	
Chrysene	0.429	0.0100	"	0.333		129	57-125	2.12	24	X
Dibenz (a,h) anthracene	0.325	0.0100	"	0.333		97.6	52-120	4.72	40	
Fluoranthene	0.363	0.0100	"	0.333		109	61-128	1.39	40	
Fluorene	0.389	0.0100	"	0.333		117	63-120	1.02	43	
Indeno (1,2,3-cd) pyrene	0.325	0.0100	"	0.333		97.6	54-128	5.05	39	
Naphthalene	0.369	0.0100	"	0.333		111	54-120	3.46	40	
Phenanthrene	0.335	0.0100	"	0.333		101	28-120	0.298	40	
Pyrene	0.422	0.0100	"	0.333		127	59-124	0.237	40	X
<i>Surrogate: p-Terphenyl-d14</i>	<i>2.25</i>		<i>"</i>	<i>1.67</i>		<i>135</i>	<i>28-161</i>			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/07/04 17:13

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Spike Level	Source	%REC		RPD		Notes
		Limit			Result	%REC	Limits	RPD	Limit	

Batch 4J18053: Prepared 10/18/04 Using General Preparation

Blank (4J18053-BLK1)

Dry Weight	100	1.00	%
------------	-----	------	---

Batch 4J19014: Prepared 10/19/04 Using General Preparation

Blank (4J19014-BLK1)

Dry Weight	99.9	1.00	%
------------	------	------	---

Batch 4J19032: Prepared 10/19/04 Using General Preparation

Blank (4J19032-BLK1)

Dry Weight	100	1.00	%
------------	-----	------	---

Batch 4J20012: Prepared 10/20/04 Using General Preparation

Blank (4J20012-BLK1)

Dry Weight	100	1.00	%
------------	-----	------	---

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/07/04 17:13
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Notes and Definitions

- A-01 Sample may have carryover. The results were reported due to MS/MSD related to this sample. the sample will be rerun to confirm.
- A-01a The Matrix Spike Duplicate was analyzed thirty-four minutes outside twelve hour QC window.
- A-01b The Matrix Spike was analyzed five minutes outside of the twelve hour QC window.
- E Estimated value. The reported value exceeds the calibration range of the analysis.
- E-01 Estimated value. The reported value exceeds the capacity of the detector and therefore is unreliable.
- G-06 The field surrogate for this sample is outside established control limits. Acceptable laboratory surrogate recovery suggests the field surrogate recovery may have been impacted by sampling, sample handling or sample matrix.
- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- Q-03 The percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



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03 December 2004

Andy Dimitriou
SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503
RE: FIA Former Mark Air Facilities

Enclosed are the results of analyses for samples received by the laboratory on 10/12/04 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager

CASE NARRATIVE for B4J0471

Client: SLR Alaska
Project Manager: Andy Dimitriou
Project Name: FIA Former Mark Air Facilities
Project Number: 004.0184.00001

1.0 DESCRIPTION OF CASE

Five (5) soil samples were submitted for the analysis of:

- Gasoline Range Hydrocarbons and BTEX by AK101/EPA 8021B
- Diesel Hydrocarbons and Heavy Oil by AK102 and AK103
- Total Metals by EPA 6000/7000 Series Methods
- Volatile Organic Compounds by EPA Method 8260B
- Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received 12th October 2004 at a temperature of 6.0°C and logged in 14th October 2004.

3.0 PREPARATION AND ANALYSIS

Gasoline Range Hydrocarbons and BTEX by AK101/EPA 8021B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Diesel Hydrocarbons and Heavy Oil by AK102 and AK103

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Total Metals by EPA 6000/7000 Series Methods

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Volatile Organic Compounds by EPA Method 8260B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.



Amar Gill
Project Manager
North Creek Analytical

CASE NARRATIVE for B4J0471

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Project sample WP-3-7 was extracted in analytical batch 4J18059. The percent recoveries of spike compounds, Benzo(a)Pyrene, Chrysene and Pyrene were above control limits in the analytical batch Blank Spike and Blank Spike Duplicate. The Relative Percent Difference (RPD) for each spike compound was within control limits and the project samples was ND for both Benzo(a)Pyrene. Chrysene and Pyrene were observed in the project sample at a level above the method reporting level, MRL. No further action was taken. No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.



Amar Gill
Project Manager
North Creek Analytical



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CHAIN OF CUSTODY REPORT

Work Order #: **B4J0471**

CLIENT: FIA / SLR ALASKA		INVOICE TO:		TURNAROUND REQUEST in Business Days *									
REPORT TO: 3522 INTERNATIONAL ADDRESS: FAIRBANKS AK 99709		P.O. NUMBER:						<input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Organic & Inorganic Analyses					
PHONE: 455-9005 FAX: 907-455-9015		PRESERVATIVE		<input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Petroleum Hydrocarbon Analyses									
PROJECT NAME: FIA / FORMER MAALAIR FACILITIES		REQUESTED ANALYSES		OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>									
PROJECT NUMBER: 004.0184.00001		<table border="1" style="width:100%; text-align: center;"> <tr> <td>MEANING</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>						MEANING	-	-	-	-	-
MEANING	-	-	-	-	-	-	-	-	-				
SAMPLED BY: S. SWENSON													
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX	PAH	ALC	ALC	ALC	ALC	ALC	ALC	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 WP-5-10.5	10.7.04 1620	X	X	X	X	X	X	X	X	S	3		01
2 WP-7-10	10.7.04 1445	X	X	X	X	X	X	X	X	S	3		02
3 MW-8-WB-10	10.8.04 0950	X	X	X	X	X	X	X	X	S	2		03
4 WP-3-7	10.8.04 1105	X	X	X	X	X	X	X	X	S	2		04
5 WP-4A-10	10.8.04 1320									S	1		05
6													
7													
8													
9													
10													
RELEASED BY: Sally Swenson		DATE: 10.11.04		RECEIVED BY: Danny Tontz		DATE: 10/12/04							
PRINT NAME: Sally Swenson		FIRM: SLR		TIME: 1200		PRINT NAME: DANNY TONTZ		FIRM: NCA		TIME: 1530			
RELEASED BY:		DATE:		RECEIVED BY:		DATE:							
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:							
ADDITIONAL REMARKS:										TEMP: 6.0		PAGE OF	

W/CS



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP-5-10.5	B4J0471-01	Soil	10/07/04 16:20	10/12/04 15:30
WP-7-10	B4J0471-02	Soil	10/07/04 14:45	10/12/04 15:30
MW-8-WB-10	B4J0471-03	Soil	10/08/04 09:50	10/12/04 15:30
WP-3-7	B4J0471-04	Soil	10/08/04 11:05	10/12/04 15:30
WP-4A-10	B4J0471-05	Soil	10/08/04 13:20	10/12/04 15:30

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

**Gasoline Range Hydrocarbons (n-Hexane to <n-Decane) by AK101
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-5-10.5 (B4J0471-01) Soil Sampled: 10/07/04 16:20 Received: 10/12/04 15:30										
Gasoline Range Hydrocarbons	ND	2.11		mg/kg dry	1	4J18022	10/18/04	10/18/04	AK 101	
Surrogate: 4-BFB (FID)	94.5 %	60-120				"	"	"	"	
Surrogate: a,a,a-TFT (FID)	69.6 %	50-150				"	"	"	"	
WP-7-10 (B4J0471-02) Soil Sampled: 10/07/04 14:45 Received: 10/12/04 15:30										
Gasoline Range Hydrocarbons	ND	3.37		mg/kg dry	1	4J18022	10/18/04	10/18/04	AK 101	
Surrogate: 4-BFB (FID)	89.4 %	60-120				"	"	"	"	
Surrogate: a,a,a-TFT (FID)	87.8 %	50-150				"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

MW-8-WB-10 (B4J0471-03) Soil Sampled: 10/08/04 09:50 Received: 10/12/04 15:30

Gasoline Range Hydrocarbons	4.98	2.84	mg/kg dry	1	4J18022	10/18/04	10/18/04	AK 101	
Benzene	0.376	0.0113	"	"	"	"	"	"	
Toluene	ND	0.0284	"	"	"	"	"	"	
Ethylbenzene	0.189	0.0284	"	"	"	"	"	"	
Xylenes (total)	0.613	0.0567	"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>100 %</i>	<i>60-120</i>			"	"	"	"	
<i>Surrogate: a,a,a-TFT (FID)</i>	<i>71.4 %</i>	<i>50-150</i>			"	"	"	"	
<i>Surrogate: 4-BFB (PID)</i>	<i>91.4 %</i>	<i>60-120</i>			"	"	"	"	
<i>Surrogate: a,a,a-TFT (PID)</i>	<i>76.6 %</i>	<i>50-150</i>			"	"	"	"	

WP-3-7 (B4J0471-04) Soil Sampled: 10/08/04 11:05 Received: 10/12/04 15:30

Gasoline Range Hydrocarbons	175	4.54	mg/kg dry	1	4J18022	10/18/04	10/19/04	AK 101	G-02
Benzene	ND	0.0182	"	"	"	"	"	"	
Toluene	ND	0.0454	"	"	"	"	"	"	
Ethylbenzene	ND	0.0454	"	"	"	"	"	"	
Xylenes (total)	4.41	0.0908	"	"	"	"	"	"	I-06
<i>Surrogate: 4-BFB (FID)</i>	<i>148 %</i>	<i>60-120</i>			"	"	"	"	S-04
<i>Surrogate: a,a,a-TFT (FID)</i>	<i>91.2 %</i>	<i>50-150</i>			"	"	"	"	
<i>Surrogate: 4-BFB (PID)</i>	<i>118 %</i>	<i>60-120</i>			"	"	"	"	
<i>Surrogate: a,a,a-TFT (PID)</i>	<i>93.8 %</i>	<i>50-150</i>			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/03/04 16:24
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**Diesel Hydrocarbons (C10-C25) by AK102
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-3-7 (B4J0471-04) Soil **Sampled: 10/08/04 11:05** **Received: 10/12/04 15:30**

Diesel Range Hydrocarbons	7450	160		mg/kg dry	40	4J15001	10/15/04	10/18/04	AK 102	
<i>Surrogate: 2-FBP</i>	<i>ND</i>	<i>50-150</i>				<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>S-01</i>

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-5-10.5 (B4J0471-01) Soil Sampled: 10/07/04 16:20 Received: 10/12/04 15:30

Diesel Range Hydrocarbons	ND	4.00		mg/kg dry	1	4J15001	10/15/04	10/16/04	AK102/103	
Residual Range Organics	ND	25.0		"	"	"	"	"	"	
Surrogate: 2-FBP	69.3 %	50-150				"	"	"	"	
Surrogate: Octacosane	80.8 %	50-150				"	"	"	"	

WP-7-10 (B4J0471-02) Soil Sampled: 10/07/04 14:45 Received: 10/12/04 15:30

Diesel Range Hydrocarbons	ND	4.00		mg/kg dry	1	4J15001	10/15/04	10/16/04	AK102/103	
Residual Range Organics	ND	25.0		"	"	"	"	"	"	
Surrogate: 2-FBP	79.3 %	50-150				"	"	"	"	
Surrogate: Octacosane	86.6 %	50-150				"	"	"	"	

MW-8-WB-10 (B4J0471-03) Soil Sampled: 10/08/04 09:50 Received: 10/12/04 15:30

Diesel Range Hydrocarbons	ND	4.00		mg/kg dry	1	4J15001	10/15/04	10/16/04	AK102/103	
Residual Range Organics	ND	25.0		"	"	"	"	"	"	
Surrogate: 2-FBP	78.9 %	50-150				"	"	"	"	
Surrogate: Octacosane	91.8 %	50-150				"	"	"	"	

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Amar Gill, Project Manager



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SLR Alaska
 2525 Blueberry Road, Suite 206
 Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/03/04 16:24

**Total Metals by EPA 6000/7000 Series Methods
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-3-7 (B4J0471-04) Soil Sampled: 10/08/04 11:05 Received: 10/12/04 15:30										
Lead	7.25	0.806		mg/kg dry	1	4J18044	10/18/04	10/19/04	EPA 6020	
WP-4A-10 (B4J0471-05) Soil Sampled: 10/08/04 13:20 Received: 10/12/04 15:30										
Lead	10.5	0.862		mg/kg dry	1	4J18044	10/18/04	10/19/04	EPA 6020	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-5-10.5 (B4J0471-01) Soil Sampled: 10/07/04 16:20 Received: 10/12/04 15:30										
Acetone	ND	0.421		mg/kg dry	1	4J14041	10/14/04	10/14/04	EPA 8260B	
Benzene	ND	0.00842		"	"	"	"	"	"	
Bromobenzene	ND	0.0421		"	"	"	"	"	"	
Bromochloromethane	ND	0.0421		"	"	"	"	"	"	
Bromodichloromethane	ND	0.0421		"	"	"	"	"	"	
Bromoform	ND	0.0421		"	"	"	"	"	"	
Bromomethane	ND	0.0421		"	"	"	"	"	"	
2-Butanone	ND	0.421		"	"	"	"	"	"	
n-Butylbenzene	ND	0.0421		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0421		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0421		"	"	"	"	"	"	
Carbon disulfide	ND	0.0421		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0421		"	"	"	"	"	"	
Chlorobenzene	ND	0.0421		"	"	"	"	"	"	
Chloroethane	ND	0.0421		"	"	"	"	"	"	
Chloroform	ND	0.0421		"	"	"	"	"	"	
Chloromethane	ND	0.211		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0421		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0421		"	"	"	"	"	"	
Dibromochloromethane	ND	0.0421		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.211		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0421		"	"	"	"	"	"	
Dibromomethane	ND	0.0421		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0421		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0421		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0421		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0421		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0421		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0421		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0421		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0421		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0421		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0421		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0421		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0421		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0421		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0421		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0421		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

WP-5-10.5 (B4J0471-01) Soil Sampled: 10/07/04 16:20 Received: 10/12/04 15:30

Ethylbenzene	ND	0.0421		mg/kg dry	1	4J14041	10/14/04	10/14/04	EPA 8260B	
Hexachlorobutadiene	ND	0.0421		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.211		"	"	"	"	"	"	
2-Hexanone	ND	0.421		"	"	"	"	"	"	
Isopropylbenzene	ND	0.0421		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0421		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	0.421		"	"	"	"	"	"	
Methylene chloride	ND	0.421		"	"	"	"	"	"	
Naphthalene	ND	0.0421		"	"	"	"	"	"	
n-Propylbenzene	ND	0.0421		"	"	"	"	"	"	
Styrene	ND	0.0421		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0421		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0421		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0421		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0421		"	"	"	"	"	"	
Tetrachloroethene	ND	0.0421		"	"	"	"	"	"	
Toluene	ND	0.0421		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0421		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0421		"	"	"	"	"	"	
Trichloroethene	ND	0.0421		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0421		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0421		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0421		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0421		"	"	"	"	"	"	
Vinyl chloride	ND	0.0421		"	"	"	"	"	"	
o-Xylene	ND	0.0421		"	"	"	"	"	"	
m,p-Xylene	ND	0.0842		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.1 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130				"	"	"	"	
Surrogate: 4-BFB	102 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-7-10 (B4J0471-02) Soil Sampled: 10/07/04 14:45 Received: 10/12/04 15:30										
Acetone	ND	0.674		mg/kg dry	1	4J14041	10/14/04	10/14/04	EPA 8260B	
Benzene	ND	0.0135		"	"	"	"	"	"	
Bromobenzene	ND	0.0674		"	"	"	"	"	"	
Bromochloromethane	ND	0.0674		"	"	"	"	"	"	
Bromodichloromethane	ND	0.0674		"	"	"	"	"	"	
Bromoform	ND	0.0674		"	"	"	"	"	"	
Bromomethane	ND	0.0674		"	"	"	"	"	"	
2-Butanone	ND	0.674		"	"	"	"	"	"	
n-Butylbenzene	ND	0.0674		"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0674		"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0674		"	"	"	"	"	"	
Carbon disulfide	ND	0.0674		"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0674		"	"	"	"	"	"	
Chlorobenzene	ND	0.0674		"	"	"	"	"	"	
Chloroethane	ND	0.0674		"	"	"	"	"	"	
Chloroform	ND	0.0674		"	"	"	"	"	"	
Chloromethane	ND	0.337		"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0674		"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0674		"	"	"	"	"	"	
Dibromochloromethane	ND	0.0674		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.337		"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0674		"	"	"	"	"	"	
Dibromomethane	ND	0.0674		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0674		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0674		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0674		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0674		"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0674		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0674		"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0674		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0674		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0674		"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0674		"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0674		"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0674		"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0674		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0674		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0674		"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-7-10 (B4J0471-02) Soil Sampled: 10/07/04 14:45 Received: 10/12/04 15:30										
Ethylbenzene	ND	0.0674		mg/kg dry	1	4J14041	10/14/04	10/14/04	EPA 8260B	
Hexachlorobutadiene	ND	0.0674		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.337		"	"	"	"	"	"	
2-Hexanone	ND	0.674		"	"	"	"	"	"	
Isopropylbenzene	ND	0.0674		"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0674		"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	0.674		"	"	"	"	"	"	
Methylene chloride	ND	0.674		"	"	"	"	"	"	
Naphthalene	ND	0.0674		"	"	"	"	"	"	
n-Propylbenzene	ND	0.0674		"	"	"	"	"	"	
Styrene	ND	0.0674		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0674		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0674		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0674		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0674		"	"	"	"	"	"	
Tetrachloroethene	ND	0.0674		"	"	"	"	"	"	
Toluene	ND	0.0674		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0674		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0674		"	"	"	"	"	"	
Trichloroethene	ND	0.0674		"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0674		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0674		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0674		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0674		"	"	"	"	"	"	
Vinyl chloride	ND	0.0674		"	"	"	"	"	"	
o-Xylene	ND	0.0674		"	"	"	"	"	"	
m,p-Xylene	ND	0.135		"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	98.7 %	70-130				"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130				"	"	"	"	
Surrogate: 4-BFB	102 %	70-130				"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/03/04 16:24

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-3-7 (B4J0471-04) Soil Sampled: 10/08/04 11:05 Received: 10/12/04 15:30										
1-Methylnaphthalene	ND	0.0100		mg/kg dry	1	4J18059	10/18/04	11/22/04	8270C-SIM	
2-Methylnaphthalene	ND	0.0100		"	"	"	"	"	"	
Acenaphthene	ND	0.0100		"	"	"	"	"	"	
Acenaphthylene	ND	0.0100		"	"	"	"	"	"	
Anthracene	ND	0.0100		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0100		"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND	0.0100		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.0100		"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0157	0.0100		"	"	"	"	"	"	
Chrysene	0.0135	0.0100		"	"	"	"	"	"	X
Dibenz (a,h) anthracene	ND	0.0100		"	"	"	"	"	"	
Fluoranthene	ND	0.0100		"	"	"	"	"	"	
Fluorene	ND	0.0100		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100		"	"	"	"	"	"	
Naphthalene	ND	0.0100		"	"	"	"	"	"	
Phenanthrene	ND	0.0100		"	"	"	"	"	"	
Pyrene	0.0440	0.0100		"	"	"	"	"	"	X
Surrogate: <i>p</i> -Terphenyl-d14	128 %	28-161				"	"	"	"	

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
WP-5-10.5 (B4J0471-01) Soil Sampled: 10/07/04 16:20 Received: 10/12/04 15:30										
Dry Weight	79.3	1.00		%	1	4J15013	10/15/04	10/16/04	BSOPSPL003R08	
WP-7-10 (B4J0471-02) Soil Sampled: 10/07/04 14:45 Received: 10/12/04 15:30										
Dry Weight	86.0	1.00		%	1	4J15013	10/15/04	10/16/04	BSOPSPL003R08	
MW-8-WB-10 (B4J0471-03) Soil Sampled: 10/08/04 09:50 Received: 10/12/04 15:30										
Dry Weight	77.9	1.00		%	1	4J15013	10/15/04	10/16/04	BSOPSPL003R08	
WP-3-7 (B4J0471-04) Soil Sampled: 10/08/04 11:05 Received: 10/12/04 15:30										
Dry Weight	83.8	1.00		%	1	4J15013	10/15/04	10/16/04	BSOPSPL003R08	
WP-4A-10 (B4J0471-05) Soil Sampled: 10/08/04 13:20 Received: 10/12/04 15:30										
Dry Weight	67.3	1.00		%	1	4J21043	10/21/04	10/22/04	BSOPSPL003R08	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

**Gasoline Range Hydrocarbons (n-Hexane to <n-Decane) by AK101 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18022: Prepared 10/18/04 Using EPA 5030B (MeOH)

Blank (4J18022-BLK1)

Gasoline Range Hydrocarbons	ND	5.00	mg/kg							
Surrogate: 4-BFB (FID)	2.14		"	2.40		89.2	60-120			
Surrogate: a,a,a-TFT (FID)	2.44		"	2.40		102	50-150			

LCS (4J18022-BS1)

Gasoline Range Hydrocarbons	26.0	5.00	mg/kg	25.1		104	60-120			
Surrogate: 4-BFB (FID)	2.48		"	2.40		103	60-120			
Surrogate: a,a,a-TFT (FID)	2.57		"	2.40		107	50-150			

LCS Dup (4J18022-BSD1)

Gasoline Range Hydrocarbons	27.0	5.00	mg/kg	25.1		108	60-120	3.77	20	
Surrogate: 4-BFB (FID)	2.49		"	2.40		104	60-120			
Surrogate: a,a,a-TFT (FID)	2.56		"	2.40		107	50-150			

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18022: Prepared 10/18/04 Using EPA 5030B (MeOH)

Blank (4J18022-BLK1)

Gasoline Range Hydrocarbons	ND	5.00	mg/kg							
Benzene	ND	0.0200	"							
Toluene	ND	0.0500	"							
Ethylbenzene	ND	0.0500	"							
Xylenes (total)	ND	0.100	"							
<i>Surrogate: 4-BFB (FID)</i>	2.14		"	2.40		89.2	60-120			
<i>Surrogate: a,a,a-TFT (FID)</i>	2.44		"	2.40		102	50-150			
<i>Surrogate: 4-BFB (PID)</i>	2.09		"	2.40		87.1	60-120			
<i>Surrogate: a,a,a-TFT (PID)</i>	2.38		"	2.40		99.2	50-150			

LCS (4J18022-BS1)

Gasoline Range Hydrocarbons	26.0	5.00	mg/kg	25.1		104	60-120			
Benzene	0.289	0.0200	"	0.310		93.2	75-125			
Toluene	1.67	0.0500	"	1.75		95.4	75-125			
Ethylbenzene	0.409	0.0500	"	0.419		97.6	75-125			
Xylenes (total)	2.01	0.100	"	2.03		99.0	75-125			
<i>Surrogate: 4-BFB (FID)</i>	2.48		"	2.40		103	60-120			
<i>Surrogate: a,a,a-TFT (FID)</i>	2.57		"	2.40		107	50-150			
<i>Surrogate: 4-BFB (PID)</i>	2.14		"	2.40		89.2	60-120			
<i>Surrogate: a,a,a-TFT (PID)</i>	2.36		"	2.40		98.3	50-150			

LCS Dup (4J18022-BSD1)

Gasoline Range Hydrocarbons	27.0	5.00	mg/kg	25.1		108	60-120	3.77	20	
Benzene	0.304	0.0200	"	0.310		98.1	75-125	5.06	25	
Toluene	1.74	0.0500	"	1.75		99.4	75-125	4.11	25	
Ethylbenzene	0.425	0.0500	"	0.419		101	75-125	3.84	25	
Xylenes (total)	2.11	0.100	"	2.03		104	75-125	4.85	25	
<i>Surrogate: 4-BFB (FID)</i>	2.49		"	2.40		104	60-120			
<i>Surrogate: a,a,a-TFT (FID)</i>	2.56		"	2.40		107	50-150			
<i>Surrogate: 4-BFB (PID)</i>	2.13		"	2.40		88.8	60-120			
<i>Surrogate: a,a,a-TFT (PID)</i>	2.34		"	2.40		97.5	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

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Diesel Hydrocarbons (C10-C25) by AK102 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15001: Prepared 10/15/04 Using EPA 3550B

Blank (4J15001-BLK1)

Diesel Range Hydrocarbons	ND	4.00	mg/kg							
Surrogate: 2-FBP	6.18		"	8.40		73.6	50-150			

LCS (4J15001-BS1)

Diesel Range Hydrocarbons	61.6	4.00	mg/kg	74.8		82.4	75-125			
Surrogate: 2-FBP	6.43		"	8.40		76.5	50-150			

LCS Dup (4J15001-BSD1)

Diesel Range Hydrocarbons	68.4	4.00	mg/kg	74.8		91.4	75-125	10.5	20	
Surrogate: 2-FBP	6.87		"	8.40		81.8	50-150			

Matrix Spike (4J15001-MS1)

Source: B4J0501-09

Diesel Range Hydrocarbons	144	9.24	mg/kg dry	173	7.60	78.8	75-125			
Surrogate: 2-FBP	16.8		"	19.4		86.6	50-150			

Matrix Spike Dup (4J15001-MSD1)

Source: B4J0501-09

Diesel Range Hydrocarbons	150	9.24	mg/kg dry	173	7.60	82.3	75-125	4.08	20	
Surrogate: 2-FBP	16.9		"	19.4		87.1	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15001: Prepared 10/15/04 Using EPA 3550B

Blank (4J15001-BLK1)

Diesel Range Hydrocarbons	ND	4.00	mg/kg							
Residual Range Organics	ND	25.0	"							
Surrogate: 2-FBP	6.18		"	8.40		73.6	50-150			
Surrogate: Octacosane	7.09		"	8.00		88.6	50-150			

LCS (4J15001-BS1)

Diesel Range Hydrocarbons	61.6	4.00	mg/kg	74.8		82.4	75-125			
Surrogate: 2-FBP	6.43		"	8.40		76.5	50-150			

LCS (4J15001-BS2)

Residual Range Organics	60.5	25.0	mg/kg	80.0		75.6	60-120			
Surrogate: Octacosane	6.75		"	8.00		84.4	50-150			

LCS Dup (4J15001-BSD1)

Diesel Range Hydrocarbons	68.4	4.00	mg/kg	74.8		91.4	75-125	10.5	20	
Surrogate: 2-FBP	6.87		"	8.40		81.8	50-150			

LCS Dup (4J15001-BSD2)

Residual Range Organics	58.7	25.0	mg/kg	80.0		73.4	60-120	3.02	20	
Surrogate: Octacosane	6.74		"	8.00		84.2	50-150			

Matrix Spike (4J15001-MS1)

Source: B4J0501-09

Diesel Range Hydrocarbons	144	9.24	mg/kg dry	173	7.60	78.8	75-125			
Surrogate: 2-FBP	16.8		"	19.4		86.6	50-150			

Matrix Spike Dup (4J15001-MSD1)

Source: B4J0501-09

Diesel Range Hydrocarbons	150	9.24	mg/kg dry	173	7.60	82.3	75-125	4.08	20	
Surrogate: 2-FBP	16.9		"	19.4		87.1	50-150			

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

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Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4J18044: Prepared 10/18/04 Using EPA 3050B										
Blank (4J18044-BLK1)										
Lead	ND	0.500	mg/kg							
LCS (4J18044-BS1)										
Lead	40.6	0.500	mg/kg	40.0		102	80-120			
LCS Dup (4J18044-BSD1)										
Lead	39.6	0.500	mg/kg	38.5		103	80-120	2.49	20	
Matrix Spike (4J18044-MS1) Source: B4J0394-14										
Lead	48.6	0.500	mg/kg dry	40.7	8.84	97.7	62-137			
Matrix Spike Dup (4J18044-MSD1) Source: B4J0394-14										
Lead	60.2	0.500	mg/kg dry	44.0	8.84	117	62-137	21.3	30	
Post Spike (4J18044-PS1) Source: B4J0394-14										
Lead	0.114		ug/ml	0.0995	0.0166	97.9	75-125			

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Project Manager: Andy Dimitriou

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC		RPD		Notes
		Limit				%REC	Limits	RPD	Limit	

Batch 4J14041: Prepared 10/14/04 Using EPA 5030B [MeOH]

Blank (4J14041-BLK1)

Analyte	Result	Reporting Limit	Units
Acetone	ND	1.00	mg/kg
Benzene	ND	0.0200	"
Bromobenzene	ND	0.100	"
Bromochloromethane	ND	0.100	"
Bromodichloromethane	ND	0.100	"
Bromoform	ND	0.100	"
Bromomethane	ND	0.100	"
2-Butanone	ND	1.00	"
n-Butylbenzene	ND	0.100	"
sec-Butylbenzene	ND	0.100	"
tert-Butylbenzene	ND	0.100	"
Carbon disulfide	ND	0.100	"
Carbon tetrachloride	ND	0.100	"
Chlorobenzene	ND	0.100	"
Chloroethane	ND	0.100	"
Chloroform	ND	0.100	"
Chloromethane	ND	0.500	"
2-Chlorotoluene	ND	0.100	"
4-Chlorotoluene	ND	0.100	"
Dibromochloromethane	ND	0.100	"
1,2-Dibromo-3-chloropropane	ND	0.500	"
1,2-Dibromoethane	ND	0.100	"
Dibromomethane	ND	0.100	"
1,2-Dichlorobenzene	ND	0.100	"
1,3-Dichlorobenzene	ND	0.100	"
1,4-Dichlorobenzene	ND	0.100	"
Dichlorodifluoromethane	ND	0.100	"
1,1-Dichloroethane	ND	0.100	"
1,2-Dichloroethane	ND	0.100	"
1,1-Dichloroethene	ND	0.100	"
cis-1,2-Dichloroethene	ND	0.100	"
trans-1,2-Dichloroethene	ND	0.100	"
1,2-Dichloropropane	ND	0.100	"
1,3-Dichloropropane	ND	0.100	"
2,2-Dichloropropane	ND	0.100	"

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Project Manager: Andy Dimitriou

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14041: Prepared 10/14/04 Using EPA 5030B [MeOH]

Blank (4J14041-BLK1)

1,1-Dichloropropene	ND	0.100	mg/kg							
cis-1,3-Dichloropropene	ND	0.100	"							
trans-1,3-Dichloropropene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Hexachlorobutadiene	ND	0.100	"							
Methyl tert-butyl ether	ND	0.500	"							
2-Hexanone	ND	1.00	"							
Isopropylbenzene	ND	0.100	"							
p-Isopropyltoluene	ND	0.100	"							
4-Methyl-2-pentanone	ND	1.00	"							
Methylene chloride	ND	1.00	"							
Naphthalene	ND	0.100	"							
n-Propylbenzene	ND	0.100	"							
Styrene	ND	0.100	"							
1,2,3-Trichlorobenzene	ND	0.100	"							
1,2,4-Trichlorobenzene	ND	0.100	"							
1,1,1,2-Tetrachloroethane	ND	0.100	"							
1,1,1,2,2-Tetrachloroethane	ND	0.100	"							
Tetrachloroethene	ND	0.100	"							
Toluene	ND	0.100	"							
1,1,1-Trichloroethane	ND	0.100	"							
1,1,2-Trichloroethane	ND	0.100	"							
Trichloroethene	ND	0.100	"							
Trichlorofluoromethane	ND	0.100	"							
1,2,3-Trichloropropane	ND	0.100	"							
1,2,4-Trimethylbenzene	ND	0.100	"							
1,3,5-Trimethylbenzene	ND	0.100	"							
Vinyl chloride	ND	0.100	"							
o-Xylene	ND	0.100	"							
m,p-Xylene	ND	0.200	"							
Surrogate: 1,2-DCA-d4	1.94		"	2.00		97.0	70-130			
Surrogate: Toluene-d8	1.97		"	2.00		98.5	70-130			
Surrogate: 4-BFB	1.95		"	2.00		97.5	70-130			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14041: Prepared 10/14/04 Using EPA 5030B [MeOH]

LCS (4J14041-BS1)

Benzene	0.936	0.0200	mg/kg	1.00		93.6	75-125			
Chlorobenzene	0.959	0.100	"	1.00		95.9	74-128			
1,1-Dichloroethene	1.11	0.100	"	1.00		111	57-122			
Methyl tert-butyl ether	1.01	0.500	"	1.00		101	75-125			
Toluene	0.912	0.100	"	1.00		91.2	74-121			
Trichloroethene	0.902	0.100	"	1.00		90.2	72-122			
Surrogate: 1,2-DCA-d4	1.95		"	2.00		97.5	70-130			
Surrogate: Toluene-d8	1.94		"	2.00		97.0	70-130			
Surrogate: 4-BFB	1.97		"	2.00		98.5	70-130			

LCS Dup (4J14041-BSD1)

Benzene	0.947	0.0200	mg/kg	1.00		94.7	75-125	1.17	20	
Chlorobenzene	0.993	0.100	"	1.00		99.3	74-128	3.48	20	
1,1-Dichloroethene	1.14	0.100	"	1.00		114	57-122	2.67	20	
Methyl tert-butyl ether	0.996	0.500	"	1.00		99.6	75-125	1.40	20	
Toluene	0.952	0.100	"	1.00		95.2	74-121	4.29	20	
Trichloroethene	0.916	0.100	"	1.00		91.6	72-122	1.54	20	
Surrogate: 1,2-DCA-d4	1.96		"	2.00		98.0	70-130			
Surrogate: Toluene-d8	1.99		"	2.00		99.5	70-130			
Surrogate: 4-BFB	1.97		"	2.00		98.5	70-130			

Matrix Spike (4J14041-MS1)

Source: B4J0416-12

A-01a

Benzene	0.688	0.0115	mg/kg dry	0.708	ND	97.2	61-130			
Chlorobenzene	0.712	0.0577	"	0.708	ND	101	62-129			
1,1-Dichloroethene	0.773	0.0577	"	0.708	ND	109	42-127			
Methyl tert-butyl ether	0.734	0.289	"	0.708	ND	104	50-150			
Toluene	0.690	0.0577	"	0.708	0.0106	96.0	62-125			
Trichloroethene	0.663	0.0577	"	0.708	ND	93.6	55-130			
Surrogate: 1,2-DCA-d4	1.43		"	1.42		101	70-130			
Surrogate: Toluene-d8	1.40		"	1.42		98.6	70-130			
Surrogate: 4-BFB	1.40		"	1.42		98.6	70-130			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 20 of 25



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14041: Prepared 10/14/04 Using EPA 5030B [MeOH]

Matrix Spike Dup (4J14041-MSD1)	Source: B4J0416-12								A-01	
Benzene	0.654	0.0115	mg/kg dry	0.708	ND	92.4	61-130	5.07	25	
Chlorobenzene	0.682	0.0577	"	0.708	ND	96.3	62-129	4.30	25	
1,1-Dichloroethene	0.793	0.0577	"	0.708	ND	112	42-127	2.55	25	
Methyl tert-butyl ether	0.720	0.289	"	0.708	ND	102	50-150	1.93	25	
Toluene	0.653	0.0577	"	0.708	0.0106	90.7	62-125	5.51	25	
Trichloroethene	0.642	0.0577	"	0.708	ND	90.7	55-130	3.22	25	
Surrogate: 1,2-DCA-d4	1.41		"	1.42		99.3	70-130			
Surrogate: Toluene-d8	1.39		"	1.42		97.9	70-130			
Surrogate: 4-BFB	1.40		"	1.42		98.6	70-130			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18059: Prepared 10/18/04 Using EPA 3545

Blank (4J18059-BLK1)

1-Methylnaphthalene	ND	0.0100	mg/kg							
2-Methylnaphthalene	ND	0.0100	"							
Acenaphthene	ND	0.0100	"							
Acenaphthylene	ND	0.0100	"							
Anthracene	ND	0.0100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							X
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Chrysene	ND	0.0100	"							X
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.0100	"							
Fluorene	ND	0.0100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
Naphthalene	ND	0.0100	"							
Phenanthrene	ND	0.0100	"							
Pyrene	ND	0.0100	"							X
<i>Surrogate: p-Terphenyl-d14</i>	2.64		"	1.67		158	28-161			

LCS (4J18059-BS2)

1-Methylnaphthalene	0.373	0.0100	mg/kg	0.333		112	50-150			
2-Methylnaphthalene	0.370	0.0100	"	0.333		111	50-150			
Acenaphthene	0.377	0.0100	"	0.333		113	53-120			
Acenaphthylene	0.387	0.0100	"	0.333		116	52-120			
Anthracene	0.418	0.0100	"	0.333		126	39-145			
Benzo (a) anthracene	0.351	0.0100	"	0.333		105	64-120			
Benzo (a) pyrene	0.404	0.0100	"	0.333		121	65-120			X
Benzo (b) fluoranthene	0.447	0.0100	"	0.333		134	52-139			
Benzo (ghi) perylene	0.326	0.0100	"	0.333		97.9	54-125			
Benzo (k) fluoranthene	0.343	0.0100	"	0.333		103	47-138			
Chrysene	0.420	0.0100	"	0.333		126	57-125			X
Dibenz (a,h) anthracene	0.310	0.0100	"	0.333		93.1	52-120			
Fluoranthene	0.358	0.0100	"	0.333		108	61-128			
Fluorene	0.393	0.0100	"	0.333		118	63-120			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/03/04 16:24

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J18059: Prepared 10/18/04 Using EPA 3545

LCS (4J18059-BS2)

Indeno (1,2,3-cd) pyrene	0.309	0.0100	mg/kg	0.333		92.8	54-128			
Naphthalene	0.382	0.0100	"	0.333		115	54-120			
Phenanthrene	0.336	0.0100	"	0.333		101	28-120			
Pyrene	0.423	0.0100	"	0.333		127	59-124			X
<i>Surrogate: p-Terphenyl-d14</i>	<i>2.32</i>		<i>"</i>	<i>1.67</i>		<i>139</i>	<i>28-161</i>			

LCS Dup (4J18059-BSD2)

1-Methylnaphthalene	0.361	0.0100	mg/kg	0.333		108	50-150	3.27	40	
2-Methylnaphthalene	0.362	0.0100	"	0.333		109	50-150	2.19	40	
Acenaphthene	0.371	0.0100	"	0.333		111	53-120	1.60	40	
Acenaphthylene	0.386	0.0100	"	0.333		116	52-120	0.259	40	
Anthracene	0.420	0.0100	"	0.333		126	39-145	0.477	40	
Benzo (a) anthracene	0.367	0.0100	"	0.333		110	64-120	4.46	40	
Benzo (a) pyrene	0.425	0.0100	"	0.333		128	65-120	5.07	40	X
Benzo (b) fluoranthene	0.457	0.0100	"	0.333		137	52-139	2.21	40	
Benzo (ghi) perylene	0.339	0.0100	"	0.333		102	54-125	3.91	40	
Benzo (k) fluoranthene	0.351	0.0100	"	0.333		105	47-138	2.31	40	
Chrysene	0.429	0.0100	"	0.333		129	57-125	2.12	24	X
Dibenz (a,h) anthracene	0.325	0.0100	"	0.333		97.6	52-120	4.72	40	
Fluoranthene	0.363	0.0100	"	0.333		109	61-128	1.39	40	
Fluorene	0.389	0.0100	"	0.333		117	63-120	1.02	43	
Indeno (1,2,3-cd) pyrene	0.325	0.0100	"	0.333		97.6	54-128	5.05	39	
Naphthalene	0.369	0.0100	"	0.333		111	54-120	3.46	40	
Phenanthrene	0.335	0.0100	"	0.333		101	28-120	0.298	40	
Pyrene	0.422	0.0100	"	0.333		127	59-124	0.237	40	X
<i>Surrogate: p-Terphenyl-d14</i>	<i>2.25</i>		<i>"</i>	<i>1.67</i>		<i>135</i>	<i>28-161</i>			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/03/04 16:24
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Spike Level	Source	%REC		RPD		Notes
		Limit			Result	%REC	Limits	RPD	Limit	

Batch 4J15013: Prepared 10/15/04 Using General Preparation

Blank (4J15013-BLK1)

Dry Weight	100	1.00	%							
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Batch 4J21043: Prepared 10/21/04 Using General Preparation

Blank (4J21043-BLK1)

Dry Weight	99.8	1.00	%							
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North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/03/04 16:24
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Notes and Definitions

- A-01 The Matrix Spike Duplicate was analyzed thirty-four minutes outside twelve hour QC window.
- A-01a The Matrix Spike was analyzed five minutes outside of the twelve hour QC window.
- G-02 The chromatogram for this sample does not resemble a typical gasoline pattern. Please refer to the sample chromatogram.
- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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14 December 2004

Andy Dimitriou
SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503
RE: FIA Former Mark Air Facilities

Enclosed are the results of analyses for samples received by the laboratory on 10/15/04 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



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 503-906-9200 FAX 906-9210
 541-383-9310 FAX 382-7588
 907-334-9200 FAX 334-9210



CHAIN OF CUSTODY REPORT

Work Order #: BA10626

CLIENT: <u>FIA / AAO</u>		INVOICE TO: <u>SLR AK</u>		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>																																																																																																																	
REPORT TO: <u>SLR ALASKA</u> ADDRESS: <u>2525 BLUEBERRY RD. STE. 206</u> <u>ANCHORAGE AK 99503</u>		P.O. NUMBER:																																																																																																																			
PHONE: <u>907-222-1112</u> FAX: <u>907-222-1113</u>		PRESERVATIVE		<table border="1"> <thead> <tr> <th>MATRIX (W, S, O)</th> <th># OF CONT.</th> <th>LOCATION / COMMENTS</th> <th>NCA WO ID</th> </tr> </thead> <tbody> <tr><td></td><td>10</td><td></td><td>01</td></tr> <tr><td></td><td>10</td><td></td><td>02</td></tr> <tr><td></td><td>5</td><td></td><td>03</td></tr> <tr><td></td><td>7</td><td></td><td>04</td></tr> <tr><td></td><td>12</td><td></td><td>05</td></tr> <tr><td></td><td>5</td><td></td><td>06</td></tr> <tr><td></td><td>9</td><td></td><td>07</td></tr> <tr><td></td><td>5</td><td></td><td>08</td></tr> <tr><td></td><td>7</td><td></td><td>09</td></tr> <tr><td></td><td>9/6</td><td></td><td>10</td></tr> </tbody> </table>				MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID		10		01		10		02		5		03		7		04		12		05		5		06		9		07		5		08		7		09		9/6		10																																																																		
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10 MW-4		10.13.04 1815																																																																																																																			
RELEASED BY: <u>Sally Swenson</u>		DATE: <u>10.14.04</u>		RECEIVED BY: <u>Tom Blankinship</u>		DATE: <u>10/15/04</u>																																																																																																															
PRINT NAME: <u>Sally Swenson</u>		FIRM: <u>SLR AK</u>		PRINT NAME: <u>Blankinship</u>		FIRM: <u>NCA</u>																																																																																																															
TIME: <u>0920</u>		DATE:		TIME: <u>0830</u>		DATE:																																																																																																															
RELEASED BY:		DATE:		RECEIVED BY:		DATE:																																																																																																															
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:																																																																																																															
TIME:		DATE:		TIME:		DATE:																																																																																																															
ADDITIONAL REMARKS:							TEMP: <u>4.3°C</u>	PAGE <u>1</u> OF <u>2</u>																																																																																																													

Revised Chain of Custody

w/cs



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 503-906-9200 FAX 906-9210
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CHAIN OF CUSTODY REPORT

Work Order #: **BY 10626**

CLIENT: FIA ADOT		INVOICE TO: SLR AK		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>					
REPORT TO: SLR ANSKA ADDRESS: 2525 BLUEBERRY RD ANCHORAGE AK		P.O. NUMBER:							
PHONE: 907-222-1112 FAX: 907-222-1113		PRESERVATIVE							
PROJECT NAME: FORNER MARK AIR FAC.		HCL HCL HCL HCL HCL -							
PROJECT NUMBER: 004-0184-00001		REQUESTED ANALYSES							
SAMPLED BY: SALLY SWENSON									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX	PAH	EDC	LEAD	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 WP 4N - 35	10.13.04 1900	X	X	X	X		3		11
2 WP 4N - 25	10.13.04 1920	X	X	X	X		7	10	12
3 WPS - 8	10.13.04	X	X	X	X				
4 WP 6	10.13.04 2000	X	X	X	X		7	8	13
5 WP - 7	10.13.04	X	X	X	X				
6 WP - 2A	10.13.04 1320	X	X	X	X		5		14
7 WP - 1A	10.13.04 1300	X	X	X	X		5		15
8 Trip Blank							3		16
9									
10									
RECEIVED BY: Sally C. Swenson	DATE: 10.14.04	RECEIVED BY: Tom Blankinship	DATE: 10/15/04						
PRINT NAME: Sally C. Swenson	FIRM: SLR AK	PRINT NAME: Blankinship	FIRM: NCA						
RELEASED BY:	DATE:	RECEIVED BY:	DATE:						
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:						
ADDITIONAL REMARKS:							TEMP: 4.3°C	PAGE 2 OF 2	

w/c



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907.563.9200 fax 907.563.9210

SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/14/04 08:06
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP-1	B4J0626-01	Water	10/13/04 11:00	10/15/04 08:30
WP-3A	B4J0626-02	Water	10/13/04 09:00	10/15/04 08:30
WP-2	B4J0626-03	Water	10/13/04 12:30	10/15/04 08:30
WP-3	B4J0626-04	Water	10/13/04 12:50	10/15/04 08:30
MW-8	B4J0626-05	Water	10/13/04 14:10	10/15/04 08:30
MW-9	B4J0626-06	Water	10/13/04 14:50	10/15/04 08:30
MW-3	B4J0626-07	Water	10/13/04 15:25	10/15/04 08:30
WP-9	B4J0626-08	Water	10/13/04 15:55	10/15/04 08:30
WP-8	B4J0626-09	Water	10/13/04 16:20	10/15/04 08:30
MW-4	B4J0626-10	Water	10/13/04 18:15	10/15/04 08:30
WP4N-35	B4J0626-11	Water	10/13/04 19:00	10/15/04 08:30
WP4N-25	B4J0626-12	Water	10/13/04 19:20	10/15/04 08:30
WP-6	B4J0626-13	Water	10/13/04 20:00	10/15/04 08:30
WP-2A	B4J0626-14	Water	10/13/04 13:20	10/15/04 08:30
WP-1A	B4J0626-15	Water	10/13/04 13:00	10/15/04 08:30

North Creek Analytical - Bothell

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**Residual Range Organics (C25-C36) by AK 103
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (B4J0626-06) Water Sampled: 10/13/04 14:50 Received: 10/15/04 08:30										
Residual Range Organics	ND	0.400	3.00	mg/l	1	4J27011	10/27/04	10/28/04	AK 103	
<i>Surrogate: Octacosane</i>	<i>96.7 %</i>		<i>50-150</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

North Creek Analytical - Bothell

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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Gasoline Range Hydrocarbons (n-Hexane to <n-Decane) by AK101
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (B4J0626-01) Water Sampled: 10/13/04 11:00 Received: 10/15/04 08:30										
Gasoline Range Hydrocarbons	2370		50.0	ug/l	1	4J26003	10/26/04	10/26/04	AK 101	
<i>Surrogate: 4-BFB (FID)</i>	<i>215 %</i>		<i>60-120</i>			"	"	"	"	<i>S-04</i>
WP-3A (B4J0626-02) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30										
Gasoline Range Hydrocarbons	2270		50.0	ug/l	1	4J26003	10/26/04	10/26/04	AK 101	
<i>Surrogate: 4-BFB (FID)</i>	<i>208 %</i>		<i>60-120</i>			"	"	"	"	<i>S-04</i>
MW-3 (B4J0626-07) Water Sampled: 10/13/04 15:25 Received: 10/15/04 08:30										
Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J26003	10/26/04	10/26/04	AK 101	
<i>Surrogate: 4-BFB (FID)</i>	<i>97.9 %</i>		<i>60-120</i>			"	"	"	"	
MW-4 (B4J0626-10) Water Sampled: 10/13/04 18:15 Received: 10/15/04 08:30										
Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J26003	10/26/04	10/27/04	AK 101	
<i>Surrogate: 4-BFB (FID)</i>	<i>101 %</i>		<i>60-120</i>			"	"	"	"	
WP4N-25 (B4J0626-12) Water Sampled: 10/13/04 19:20 Received: 10/15/04 08:30										
Gasoline Range Hydrocarbons	62.1		50.0	ug/l	1	4J26003	10/26/04	10/27/04	AK 101	
<i>Surrogate: 4-BFB (FID)</i>	<i>99.0 %</i>		<i>60-120</i>			"	"	"	"	
WP-6 (B4J0626-13) Water Sampled: 10/13/04 20:00 Received: 10/15/04 08:30										
Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J26003	10/26/04	10/27/04	AK 101	
<i>Surrogate: 4-BFB (FID)</i>	<i>92.7 %</i>		<i>60-120</i>			"	"	"	"	
WP-2A (B4J0626-14) Water Sampled: 10/13/04 13:20 Received: 10/15/04 08:30										
Gasoline Range Hydrocarbons	68.0		50.0	ug/l	1	4J26003	10/26/04	10/27/04	AK 101	
<i>Surrogate: 4-BFB (FID)</i>	<i>97.9 %</i>		<i>60-120</i>			"	"	"	"	

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-3 (B4J0626-04) Water Sampled: 10/13/04 12:50 Received: 10/15/04 08:30

Gasoline Range Hydrocarbons	405		50.0	ug/l	1	4J26003	10/26/04	10/27/04	AK 101	
Benzene	0.299		0.200	"	"	"	"	"	"	
Toluene	2.78		0.500	"	"	"	"	"	"	
Ethylbenzene	3.13		0.500	"	"	"	"	"	"	
Xylenes (total)	8.94		1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	155 %		60-120			"	"	"	"	S-04
Surrogate: 4-BFB (PID)	121 %		68-140			"	"	"	"	

MW-8 (B4J0626-05) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30

Gasoline Range Hydrocarbons	20900		250	ug/l	5	4J26003	10/26/04	10/26/04	AK 101	
Benzene	3860		10.0	"	50	"	"	10/27/04	"	
Toluene	51.7		2.50	"	5	"	"	10/26/04	"	
Ethylbenzene	1410		25.0	"	50	"	"	10/27/04	"	
Xylenes (total)	4080		50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	182 %		60-120			"	"	10/26/04	"	S-04
Surrogate: 4-BFB (PID)	126 %		68-140			"	"	"	"	

WP-9 (B4J0626-08) Water Sampled: 10/13/04 15:55 Received: 10/15/04 08:30

Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J26003	10/26/04	10/26/04	AK 101	
Benzene	0.548		0.200	"	"	"	"	"	"	
Toluene	3.40		0.500	"	"	"	"	"	"	
Ethylbenzene	0.632		0.500	"	"	"	"	"	"	
Xylenes (total)	3.31		1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	95.6 %		60-120			"	"	"	"	
Surrogate: 4-BFB (PID)	94.8 %		68-140			"	"	"	"	

North Creek Analytical - Bothell

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North Creek Analytical, Inc.
Environmental Laboratory Network



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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-8 (B4J0626-09) Water **Sampled: 10/13/04 16:20** **Received: 10/15/04 08:30**

Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J26003	10/26/04	10/27/04	AK 101	
Benzene	0.733		0.200	"	"	"	"	"	"	
Toluene	4.65		0.500	"	"	"	"	"	"	
Ethylbenzene	0.740		0.500	"	"	"	"	"	"	
Xylenes (total)	3.79		1.00	"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	94.4 %		60-120			"	"	"	"	
<i>Surrogate: 4-BFB (PID)</i>	95.6 %		68-140			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Diesel Hydrocarbons (C10-C25) by AK102
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-2 (B4J0626-03) Water Sampled: 10/13/04 12:30 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	1.96		0.417	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	D-08
Surrogate: 2-FBP	91.1 %		50-150			"	"	"	"	
WP-3 (B4J0626-04) Water Sampled: 10/13/04 12:50 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	1.48		0.385	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	
Surrogate: 2-FBP	90.9 %		50-150			"	"	"	"	
MW-8 (B4J0626-05) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	1.97		0.417	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	D-08
Surrogate: 2-FBP	90.2 %		50-150			"	"	"	"	
MW-3 (B4J0626-07) Water Sampled: 10/13/04 15:25 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	ND		0.400	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	
Surrogate: 2-FBP	81.1 %		50-150			"	"	"	"	
WP-9 (B4J0626-08) Water Sampled: 10/13/04 15:55 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	ND		0.400	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	
Surrogate: 2-FBP	75.2 %		50-150			"	"	"	"	
WP-8 (B4J0626-09) Water Sampled: 10/13/04 16:20 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	ND		0.385	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	
Surrogate: 2-FBP	99.2 %		50-150			"	"	"	"	
MW-4 (B4J0626-10) Water Sampled: 10/13/04 18:15 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	0.477		0.385	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	
Surrogate: 2-FBP	85.9 %		50-150			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/14/04 08:06

Diesel Hydrocarbons (C10-C25) by AK102
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1A (B4J0626-15) Water Sampled: 10/13/04 13:00 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	ND		0.417	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	
Surrogate: 2-FBP	73.8 %		50-150			"	"	"	"	

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP4N-25 (B4J0626-12) Water Sampled: 10/13/04 19:20 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	0.734		0.100	mg/l	1	4J27011	10/27/04	10/28/04	AK102/103	
Residual Range Organics	ND		0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	101 %		50-150			"	"	"	"	
Surrogate: Octacosane	112 %		50-150			"	"	"	"	
WP-6 (B4J0626-13) Water Sampled: 10/13/04 20:00 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	0.103		0.100	mg/l	1	4J27011	10/27/04	10/28/04	AK102/103	
Residual Range Organics	ND		0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	83.5 %		50-150			"	"	"	"	
Surrogate: Octacosane	99.6 %		50-150			"	"	"	"	
WP-2A (B4J0626-14) Water Sampled: 10/13/04 13:20 Received: 10/15/04 08:30										
Diesel Range Hydrocarbons	0.630		0.100	mg/l	1	4J27011	10/27/04	10/28/04	AK102/103	
Residual Range Organics	ND		0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	109 %		50-150			"	"	"	"	
Surrogate: Octacosane	113 %		50-150			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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SLR Alaska
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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**BTEX by EPA Method 8021B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-2 (B4J0626-03) Water Sampled: 10/13/04 12:30 Received: 10/15/04 08:30										
Benzene	1600		20.0	ug/l	100	4J26003	10/26/04	10/27/04	EPA 8021B	
Toluene	5590		50.0	"	"	"	"	"	"	
Ethylbenzene	846		50.0	"	"	"	"	"	"	
Xylenes (total)	3950		100	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	103 %		68-140			"	"	"	"	
MW-9 (B4J0626-06) Water Sampled: 10/13/04 14:50 Received: 10/15/04 08:30										
Benzene	4.58		0.200	ug/l	1	4J26003	10/26/04	10/27/04	EPA 8021B	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	94.0 %		68-140			"	"	"	"	
WP-1A (B4J0626-15) Water Sampled: 10/13/04 13:00 Received: 10/15/04 08:30										
Benzene	4.49		0.200	ug/l	1	4J26003	10/26/04	10/27/04	EPA 8021B	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	93.5 %		68-140			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (B4J0626-01) Water Sampled: 10/13/04 11:00 Received: 10/15/04 08:30										
Lead	ND		0.00100	mg/l	1	4J21033	10/21/04	10/25/04	EPA 6020	
WP-3A (B4J0626-02) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30										
Lead	ND		0.00100	mg/l	1	4J21033	10/21/04	10/25/04	EPA 6020	
WP-3 (B4J0626-04) Water Sampled: 10/13/04 12:50 Received: 10/15/04 08:30										
Lead	0.0198		0.00100	mg/l	1	4J21033	10/21/04	10/25/04	EPA 6020	
MW-8 (B4J0626-05) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30										
Lead	0.00143		0.00100	mg/l	1	4J21033	10/21/04	10/25/04	EPA 6020	
MW-3 (B4J0626-07) Water Sampled: 10/13/04 15:25 Received: 10/15/04 08:30										
Lead	ND		0.00100	mg/l	1	4J21033	10/21/04	10/25/04	EPA 6020	
MW-4 (B4J0626-10) Water Sampled: 10/13/04 18:15 Received: 10/15/04 08:30										
Lead	ND		0.00100	mg/l	1	4J21033	10/21/04	10/25/04	EPA 6020	

North Creek Analytical - Bothell

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Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**EDB and DBCP by EPA Method 8011
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (B4J0626-01) Water Sampled: 10/13/04 11:00 Received: 10/15/04 08:30										
1,2-Dibromoethane (EDB)	ND		0.010	ug/l	1	4J20052	10/20/04	10/28/04	EPA 8011	I-02
WP-3A (B4J0626-02) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30										
1,2-Dibromoethane (EDB)	ND		0.010	ug/l	1	4J20052	10/20/04	10/28/04	EPA 8011	I-02
WP-3 (B4J0626-04) Water Sampled: 10/13/04 12:50 Received: 10/15/04 08:30										
1,2-Dibromoethane (EDB)	ND		0.010	ug/l	1	4J20052	10/20/04	10/28/04	EPA 8011	I-02
MW-8 (B4J0626-05) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30										
1,2-Dibromoethane (EDB)	0.543		0.050	ug/l	5	4J20052	10/20/04	10/29/04	EPA 8011	I-02

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (B4J0626-01) Water Sampled: 10/13/04 11:00 Received: 10/15/04 08:30										
Acetone	ND		20.0	ug/l	1	4J24009	10/22/04	10/23/04	EPA 8260B	
Benzene	7.23		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	16.0		1.00	"	"	"	"	"	"	
sec-Butylbenzene	7.70		1.00	"	"	"	"	"	"	
tert-Butylbenzene	1.96		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (B4J0626-01) Water Sampled: 10/13/04 11:00 Received: 10/15/04 08:30										
Ethylbenzene	88.3		1.00	ug/l	1	4J24009	10/22/04	10/23/04	EPA 8260B	E
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	23.5		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	6.05		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	54.3		1.00	"	"	"	"	"	"	
n-Propylbenzene	56.2		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	58.4		1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	"	
Trichloroethene	ND		1.00	"	"	"	"	"	"	
Trichlorofluoromethane	3.71		1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	248		1.00	"	"	"	"	"	"	E-01
1,3,5-Trimethylbenzene	64.9		1.00	"	"	"	"	"	"	E
Vinyl chloride	ND		1.00	"	"	"	"	"	"	
o-Xylene	145		1.00	"	"	"	"	"	"	E
m,p-Xylene	297		2.00	"	"	"	"	"	"	E
Surrogate: 1,2-DCA-d4	95.5 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	"	
Surrogate: 4-BFB	107 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (B4J0626-01RE1) Water Sampled: 10/13/04 11:00 Received: 10/15/04 08:30										
Acetone	ND		400	ug/l	20	4J24010	10/24/04	10/24/04	EPA 8260B	
Benzene	ND		20.0	"	"	"	"	"	"	
Bromobenzene	ND		20.0	"	"	"	"	"	"	
Bromochloromethane	ND		20.0	"	"	"	"	"	"	
Bromodichloromethane	ND		20.0	"	"	"	"	"	"	
Bromoform	ND		20.0	"	"	"	"	"	"	
Bromomethane	ND		40.0	"	"	"	"	"	"	
2-Butanone	ND		200	"	"	"	"	"	"	
n-Butylbenzene	ND		20.0	"	"	"	"	"	"	
sec-Butylbenzene	ND		20.0	"	"	"	"	"	"	
tert-Butylbenzene	ND		20.0	"	"	"	"	"	"	
Carbon disulfide	ND		20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND		20.0	"	"	"	"	"	"	
Chlorobenzene	ND		20.0	"	"	"	"	"	"	
Chloroethane	ND		20.0	"	"	"	"	"	"	
Chloroform	ND		20.0	"	"	"	"	"	"	
Chloromethane	ND		100	"	"	"	"	"	"	
2-Chlorotoluene	ND		20.0	"	"	"	"	"	"	
4-Chlorotoluene	ND		20.0	"	"	"	"	"	"	
Dibromochloromethane	ND		20.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		100	"	"	"	"	"	"	
1,2-Dibromoethane	ND		20.0	"	"	"	"	"	"	
Dibromomethane	ND		20.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		20.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		20.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		20.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND		20.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND		20.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND		20.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		20.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		20.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		20.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND		20.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND		20.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		20.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		20.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		20.0	"	"	"	"	"	"	

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (B4J0626-01RE1) Water Sampled: 10/13/04 11:00 Received: 10/15/04 08:30										
Ethylbenzene	70.8		20.0	ug/l	20	4J24010	10/24/04	10/24/04	EPA 8260B	
Hexachlorobutadiene	ND		20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		40.0	"	"	"	"	"	"	
2-Hexanone	ND		200	"	"	"	"	"	"	
Isopropylbenzene	ND		20.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		20.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		200	"	"	"	"	"	"	
Methylene chloride	ND		100	"	"	"	"	"	"	
Naphthalene	37.2		20.0	"	"	"	"	"	"	
n-Propylbenzene	35.6		20.0	"	"	"	"	"	"	
Styrene	ND		20.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		20.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		20.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		20.0	"	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	ND		20.0	"	"	"	"	"	"	
Tetrachloroethene	ND		20.0	"	"	"	"	"	"	
Toluene	39.8		20.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		20.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		20.0	"	"	"	"	"	"	
Trichloroethene	ND		20.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		20.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		20.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	197		20.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	55.8		20.0	"	"	"	"	"	"	
Vinyl chloride	ND		20.0	"	"	"	"	"	"	
o-Xylene	118		20.0	"	"	"	"	"	"	
m,p-Xylene	247		40.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	103 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	87.0 %		70-130			"	"	"	"	
Surrogate: 4-BFB	90.5 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-3A (B4J0626-02) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30										
Acetone	ND		20.0	ug/l	1	4J24009	10/22/04	10/23/04	EPA 8260B	
Benzene	7.14		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	14.2		1.00	"	"	"	"	"	"	
sec-Butylbenzene	7.15		1.00	"	"	"	"	"	"	
tert-Butylbenzene	1.72		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-3A (B4J0626-02) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30										
Ethylbenzene	79.9		1.00	ug/l	1	4J24009	10/22/04	10/23/04	EPA 8260B	E
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	21.7		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	5.29		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	48.3		1.00	"	"	"	"	"	"	
n-Propylbenzene	51.4		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	58.4		1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	"	
Trichloroethene	ND		1.00	"	"	"	"	"	"	
Trichlorofluoromethane	4.31		1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	227		1.00	"	"	"	"	"	"	E-01
1,3,5-Trimethylbenzene	64.5		1.00	"	"	"	"	"	"	E
Vinyl chloride	ND		1.00	"	"	"	"	"	"	
o-Xylene	125		1.00	"	"	"	"	"	"	E
m,p-Xylene	271		2.00	"	"	"	"	"	"	E
Surrogate: 1,2-DCA-d4	96.5 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %		70-130			"	"	"	"	
Surrogate: 4-BFB	104 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-3A (B4J0626-02RE1) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30										
Acetone	ND		400	ug/l	20	4J24010	10/24/04	10/25/04	EPA 8260B	
Benzene	ND		20.0	"	"	"	"	"	"	
Bromobenzene	ND		20.0	"	"	"	"	"	"	
Bromochloromethane	ND		20.0	"	"	"	"	"	"	
Bromodichloromethane	ND		20.0	"	"	"	"	"	"	
Bromoform	ND		20.0	"	"	"	"	"	"	
Bromomethane	ND		40.0	"	"	"	"	"	"	
2-Butanone	ND		200	"	"	"	"	"	"	
n-Butylbenzene	ND		20.0	"	"	"	"	"	"	
sec-Butylbenzene	ND		20.0	"	"	"	"	"	"	
tert-Butylbenzene	ND		20.0	"	"	"	"	"	"	
Carbon disulfide	ND		20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND		20.0	"	"	"	"	"	"	
Chlorobenzene	ND		20.0	"	"	"	"	"	"	
Chloroethane	ND		20.0	"	"	"	"	"	"	
Chloroform	ND		20.0	"	"	"	"	"	"	
Chloromethane	ND		100	"	"	"	"	"	"	
2-Chlorotoluene	ND		20.0	"	"	"	"	"	"	
4-Chlorotoluene	ND		20.0	"	"	"	"	"	"	
Dibromochloromethane	ND		20.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		100	"	"	"	"	"	"	
1,2-Dibromoethane	ND		20.0	"	"	"	"	"	"	
Dibromomethane	ND		20.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		20.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		20.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		20.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND		20.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND		20.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND		20.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		20.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		20.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		20.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND		20.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND		20.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		20.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		20.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		20.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-3A (B4J0626-02RE1) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30										
Ethylbenzene	86.4		20.0	ug/l	20	4J24010	10/24/04	10/25/04	EPA 8260B	
Hexachlorobutadiene	ND		20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		40.0	"	"	"	"	"	"	
2-Hexanone	ND		200	"	"	"	"	"	"	
Isopropylbenzene	24.0		20.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		20.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		200	"	"	"	"	"	"	
Methylene chloride	ND		100	"	"	"	"	"	"	
Naphthalene	52.6		20.0	"	"	"	"	"	"	
n-Propylbenzene	42.2		20.0	"	"	"	"	"	"	
Styrene	ND		20.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		20.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		20.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		20.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		20.0	"	"	"	"	"	"	
Tetrachloroethene	ND		20.0	"	"	"	"	"	"	
Toluene	44.4		20.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		20.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		20.0	"	"	"	"	"	"	
Trichloroethene	ND		20.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		20.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		20.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	238		20.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	69.6		20.0	"	"	"	"	"	"	
Vinyl chloride	ND		20.0	"	"	"	"	"	"	
o-Xylene	146		20.0	"	"	"	"	"	"	
m,p-Xylene	291		40.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	99.5 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	87.5 %		70-130			"	"	"	"	
Surrogate: 4-BFB	92.5 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (B4J0626-05) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30										
Acetone	ND		20.0	ug/l	1	4J24009	10/22/04	10/23/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	16.2		10.0	"	"	"	"	"	"	
n-Butylbenzene	32.0		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	5.00		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND		1.00	"	"	"	"	"	"	
1,2-Dichloroethane	32.4		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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (B4J0626-05) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30										
Ethylbenzene	584		1.00	ug/l	1	4J24009	10/22/04	10/23/04	EPA 8260B	E-01
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	115		1.00	"	"	"	"	"	"	E
p-Isopropyltoluene	23.5		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	377		1.00	"	"	"	"	"	"	E-01
n-Propylbenzene	249		1.00	"	"	"	"	"	"	E-01
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	84.4		1.00	"	"	"	"	"	"	E
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	583		1.00	"	"	"	"	"	"	E-01
1,3,5-Trimethylbenzene	256		1.00	"	"	"	"	"	"	E-01
Vinyl chloride	ND		1.00	"	"	"	"	"	"	
o-Xylene	508		1.00	"	"	"	"	"	"	E-01
m,p-Xylene	869		2.00	"	"	"	"	"	"	E-01
Surrogate: 1,2-DCA-d4	104 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %		70-130			"	"	"	"	
Surrogate: 4-BFB	106 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-8 (B4J0626-05RE1) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30

Acetone	ND		2000	ug/l	100	4J24010	10/24/04	10/25/04	EPA 8260B	
Benzene	3560		100	"	"	"	"	"	"	
Bromobenzene	ND		100	"	"	"	"	"	"	
Bromochloromethane	ND		100	"	"	"	"	"	"	
Bromodichloromethane	ND		100	"	"	"	"	"	"	
Bromoform	ND		100	"	"	"	"	"	"	
Bromomethane	ND		200	"	"	"	"	"	"	
2-Butanone	ND		1000	"	"	"	"	"	"	
n-Butylbenzene	ND		100	"	"	"	"	"	"	
sec-Butylbenzene	ND		100	"	"	"	"	"	"	
tert-Butylbenzene	ND		100	"	"	"	"	"	"	
Carbon disulfide	ND		100	"	"	"	"	"	"	
Carbon tetrachloride	ND		100	"	"	"	"	"	"	
Chlorobenzene	ND		100	"	"	"	"	"	"	
Chloroethane	ND		100	"	"	"	"	"	"	
Chloroform	ND		100	"	"	"	"	"	"	
Chloromethane	ND		500	"	"	"	"	"	"	
2-Chlorotoluene	ND		100	"	"	"	"	"	"	
4-Chlorotoluene	ND		100	"	"	"	"	"	"	
Dibromochloromethane	ND		100	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		500	"	"	"	"	"	"	
1,2-Dibromoethane	ND		100	"	"	"	"	"	"	
Dibromomethane	ND		100	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		100	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		100	"	"	"	"	"	"	
1,1-Dichloroethane	ND		100	"	"	"	"	"	"	
1,2-Dichloroethane	ND		100	"	"	"	"	"	"	
1,1-Dichloroethene	ND		100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		100	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		100	"	"	"	"	"	"	
1,2-Dichloropropane	ND		100	"	"	"	"	"	"	
1,3-Dichloropropane	ND		100	"	"	"	"	"	"	
2,2-Dichloropropane	ND		100	"	"	"	"	"	"	
1,1-Dichloropropene	ND		100	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND		100	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (B4J0626-05RE1) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30										
Ethylbenzene	1370		100	ug/l	100	4J24010	10/24/04	10/25/04	EPA 8260B	
Hexachlorobutadiene	ND		100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		200	"	"	"	"	"	"	
2-Hexanone	ND		1000	"	"	"	"	"	"	
Isopropylbenzene	102		100	"	"	"	"	"	"	
p-Isopropyltoluene	ND		100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		1000	"	"	"	"	"	"	
Methylene chloride	ND		500	"	"	"	"	"	"	
Naphthalene	318		100	"	"	"	"	"	"	
n-Propylbenzene	153		100	"	"	"	"	"	"	
Styrene	ND		100	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		100	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		100	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		100	"	"	"	"	"	"	
Tetrachloroethene	ND		100	"	"	"	"	"	"	
Toluene	ND		100	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		100	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		100	"	"	"	"	"	"	
Trichloroethene	ND		100	"	"	"	"	"	"	
Trichlorofluoromethane	ND		100	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		100	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	916		100	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	229		100	"	"	"	"	"	"	
Vinyl chloride	ND		100	"	"	"	"	"	"	
o-Xylene	703		100	"	"	"	"	"	"	
m,p-Xylene	3050		200	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	104 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	87.5 %		70-130			"	"	"	"	
Surrogate: 4-BFB	90.5 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (B4J0626-07) Water Sampled: 10/13/04 15:25 Received: 10/15/04 08:30										
Acetone	ND		20.0	ug/l	1	4J24010	10/24/04	10/24/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (B4J0626-07) Water Sampled: 10/13/04 15:25 Received: 10/15/04 08:30										
Ethylbenzene	ND		1.00	ug/l	1	4J24010	10/24/04	10/24/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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: 1,2-DCA-d4	100 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	87.0 %		70-130			"	"	"	"	
Surrogate: 4-BFB	90.0 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (B4J0626-10) Water Sampled: 10/13/04 18:15 Received: 10/15/04 08:30										
Acetone	ND		20.0	ug/l	1	4J24010	10/24/04	10/24/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (B4J0626-10) Water Sampled: 10/13/04 18:15 Received: 10/15/04 08:30										
Ethylbenzene	ND		1.00	ug/l	1	4J24010	10/24/04	10/24/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	1.34		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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: 1,2-DCA-d4	103 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	86.5 %		70-130			"	"	"	"	
Surrogate: 4-BFB	91.0 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP4N-35 (B4J0626-11) Water Sampled: 10/13/04 19:00 Received: 10/15/04 08:30										
Acetone	ND		20.0	ug/l	1	4J24010	10/24/04	10/24/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP4N-35 (B4J0626-11) Water Sampled: 10/13/04 19:00 Received: 10/15/04 08:30										
Ethylbenzene	ND		1.00	ug/l	1	4J24010	10/24/04	10/24/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	4.67		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	3.82		2.00	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>	<i>102 %</i>		<i>70-130</i>							
<i>Surrogate: Toluene-d8</i>	<i>88.0 %</i>		<i>70-130</i>							
<i>Surrogate: 4-BFB</i>	<i>92.0 %</i>		<i>70-130</i>							

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP4N-25 (B4J0626-12) Water Sampled: 10/13/04 19:20 Received: 10/15/04 08:30										
Acetone	ND		20.0	ug/l	1	4J24010	10/24/04	10/24/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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	3.40		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP4N-25 (B4J0626-12) Water Sampled: 10/13/04 19:20 Received: 10/15/04 08:30										
Ethylbenzene	1.29		1.00	ug/l	1	4J24010	10/24/04	10/24/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	6.86		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	1.19		1.00	"	"	"	"	"	"	
m,p-Xylene	5.80		2.00	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>	<i>102 %</i>		<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>87.0 %</i>		<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-BFB</i>	<i>93.5 %</i>		<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-6 (B4J0626-13) Water Sampled: 10/13/04 20:00 Received: 10/15/04 08:30										
Acetone	ND		20.0	ug/l	1	4J27030	10/26/04	10/26/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-6 (B4J0626-13) Water Sampled: 10/13/04 20:00 Received: 10/15/04 08:30										
Ethylbenzene	ND		1.00	ug/l	1	4J27030	10/26/04	10/26/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	2.76		1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	"	
Trichloroethene	ND		1.00	"	"	"	"	"	"	
Trichlorofluoromethane	27.4		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: 1,2-DCA-d4</i>	<i>102 %</i>		<i>70-130</i>							
<i>Surrogate: Toluene-d8</i>	<i>94.0 %</i>		<i>70-130</i>							
<i>Surrogate: 4-BFB</i>	<i>98.5 %</i>		<i>70-130</i>							

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-1 (B4J0626-01) Water Sampled: 10/13/04 11:00 Received: 10/15/04 08:30										
1-Methylnaphthalene	26.8		0.100	ug/l	1	4J20011	10/20/04	11/04/04	8270C-SIM	
2-Methylnaphthalene	30.5		0.100	"	"	"	"	"	"	
Acenaphthene	ND		0.100	"	"	"	"	"	"	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	0.346		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	
Fluorene	0.285		0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	
Naphthalene	36.8		0.100	"	"	"	"	"	"	
Phenanthrene	0.135		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>	125 %		20-127			"	"	"	"	

WP-3A (B4J0626-02) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30										
1-Methylnaphthalene	28.9		0.200	ug/l	2	4J20011	10/20/04	11/05/04	8270C-SIM	
2-Methylnaphthalene	33.4		0.200	"	"	"	"	"	"	
Acenaphthene	ND		0.200	"	"	"	"	"	"	
Acenaphthylene	ND		0.200	"	"	"	"	"	"	
Anthracene	ND		0.200	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.200	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.200	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.200	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.200	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.200	"	"	"	"	"	"	
Chrysene	ND		0.200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.200	"	"	"	"	"	"	
Fluoranthene	ND		0.200	"	"	"	"	"	"	
Fluorene	0.304		0.200	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.200	"	"	"	"	"	"	
Naphthalene	38.3		0.200	"	"	"	"	"	"	
Phenanthrene	ND		0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-3A (B4J0626-02) Water Sampled: 10/13/04 09:00 Received: 10/15/04 08:30

Pyrene	0.208		0.200	ug/l	2	4J20011	10/20/04	11/05/04	8270C-SIM	
<i>Surrogate: p-Terphenyl-d14</i>	<i>119 %</i>		<i>20-127</i>			"	"	"	"	

MW-8 (B4J0626-05) Water Sampled: 10/13/04 14:10 Received: 10/15/04 08:30

1-Methylnaphthalene	35.2		2.00	ug/l	20	4J20011	10/20/04	11/05/04	8270C-SIM	
2-Methylnaphthalene	39.7		2.00	"	"	"	"	"	"	
Acenaphthene	ND		2.00	"	"	"	"	"	"	
Acenaphthylene	ND		2.00	"	"	"	"	"	"	
Anthracene	ND		2.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND		2.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND		2.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		2.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		2.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		2.00	"	"	"	"	"	"	
Chrysene	ND		2.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		2.00	"	"	"	"	"	"	
Fluoranthene	ND		2.00	"	"	"	"	"	"	
Fluorene	ND		2.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		2.00	"	"	"	"	"	"	
Naphthalene	228		2.00	"	"	"	"	"	"	
Phenanthrene	ND		2.00	"	"	"	"	"	"	
Pyrene	ND		2.00	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>	<i>112 %</i>		<i>20-127</i>			"	"	"	"	

WP-8 (B4J0626-09) Water Sampled: 10/13/04 16:20 Received: 10/15/04 08:30

1-Methylnaphthalene	ND		0.100	ug/l	1	4J20011	10/20/04	11/05/04	8270C-SIM	
2-Methylnaphthalene	ND		0.100	"	"	"	"	"	"	
Acenaphthene	ND		0.100	"	"	"	"	"	"	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
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Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-8 (B4J0626-09) Water Sampled: 10/13/04 16:20 Received: 10/15/04 08:30

Fluorene	ND		0.100	ug/l	1	4J20011	10/20/04	11/05/04	8270C-SIM	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	
Naphthalene	ND		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>	109 %		20-127			"	"	"	"	

WP4N-25 (B4J0626-12) Water Sampled: 10/13/04 19:20 Received: 10/15/04 08:30

1-Methylnaphthalene	0.223		0.100	ug/l	1	4J20011	10/20/04	11/04/04	8270C-SIM	
2-Methylnaphthalene	0.213		0.100	"	"	"	"	"	"	
Acenaphthene	ND		0.100	"	"	"	"	"	"	
Acenaphthylene	0.371		0.100	"	"	"	"	"	"	
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	
Fluorene	ND		0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	
Naphthalene	0.162		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>	125 %		20-127			"	"	"	"	

North Creek Analytical - Bothell

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Reported:
 12/14/04 08:06

Residual Range Organics (C25-C36) by AK 103 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27011: Prepared 10/27/04 Using EPA 3520C

Blank (4J27011-BLK1)

Residual Range Organics	ND	0.100	0.750	mg/l							
Surrogate: Octacosane	0.237			"	0.240		98.8	50-150			

LCS (4J27011-BS2)

Residual Range Organics	1.55	0.100	0.750	mg/l	2.00		77.5	60-120			
Surrogate: Octacosane	0.221			"	0.240		92.1	50-150			

LCS Dup (4J27011-BSD2)

Residual Range Organics	1.56	0.100	0.750	mg/l	2.00		78.0	60-120	0.643	20	
Surrogate: Octacosane	0.214			"	0.240		89.2	50-150			

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Reported:
 12/14/04 08:06

Gasoline Range Hydrocarbons (n-Hexane to <n-Decane) by AK101 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J26003: Prepared 10/26/04 Using EPA 5030B (P/T)

Blank (4J26003-BLK1)

Gasoline Range Hydrocarbons	ND		50.0	ug/l							
Surrogate: 4-BFB (FID)	45.8			"	48.0		95.4	60-120			

LCS (4J26003-BS1)

Gasoline Range Hydrocarbons	512		50.0	ug/l	502		102	60-120			
Surrogate: 4-BFB (FID)	53.0			"	48.0		110	60-120			

LCS Dup (4J26003-BSD1)

Gasoline Range Hydrocarbons	514		50.0	ug/l	502		102	60-120	0.390	20	
Surrogate: 4-BFB (FID)	52.9			"	48.0		110	60-120			

Matrix Spike (4J26003-MS1)

Source: B4J0626-01

Gasoline Range Hydrocarbons	4180		250	ug/l	2510	2370	72.1	60-120			
Surrogate: 4-BFB (FID)	60.8			"	48.0		127	60-120			S-04

Matrix Spike Dup (4J26003-MSD1)

Source: B4J0626-01

Gasoline Range Hydrocarbons	4220		250	ug/l	2510	2370	73.7	60-120	0.952	20	
Surrogate: 4-BFB (FID)	61.5			"	48.0		128	60-120			S-04

North Creek Analytical - Bothell

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Reported:
12/14/04 08:06

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J26003: Prepared 10/26/04 Using EPA 5030B (P/T)

Blank (4J26003-BLK1)

Gasoline Range Hydrocarbons	ND		50.0	ug/l							
Benzene	ND		0.200	"							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		1.00	"							
Surrogate: 4-BFB (FID)	45.8			"	48.0		95.4	60-120			
Surrogate: 4-BFB (PID)	47.3			"	48.0		98.5	68-140			

LCS (4J26003-BS1)

Gasoline Range Hydrocarbons	512		50.0	ug/l	502		102	60-120			
Benzene	6.93		0.200	"	6.21		112	80-120			
Toluene	37.2		0.500	"	34.9		107	80-120			
Ethylbenzene	9.46		0.500	"	8.38		113	80-120			
Xylenes (total)	45.8		1.00	"	40.6		113	80-120			
Surrogate: 4-BFB (FID)	53.0			"	48.0		110	60-120			
Surrogate: 4-BFB (PID)	47.9			"	48.0		99.8	68-140			

LCS Dup (4J26003-BSD1)

Gasoline Range Hydrocarbons	514		50.0	ug/l	502		102	60-120	0.390	20	
Benzene	6.98		0.200	"	6.21		112	80-120	0.719	25	
Toluene	37.5		0.500	"	34.9		107	80-120	0.803	25	
Ethylbenzene	9.46		0.500	"	8.38		113	80-120	0.00	25	
Xylenes (total)	45.7		1.00	"	40.6		113	80-120	0.219	25	
Surrogate: 4-BFB (FID)	52.9			"	48.0		110	60-120			
Surrogate: 4-BFB (PID)	47.6			"	48.0		99.2	68-140			

Matrix Spike (4J26003-MS1)

Source: B4J0626-01

Gasoline Range Hydrocarbons	4180		250	ug/l	2510	2370	72.1	60-120			
Benzene	41.4		1.00	"	31.0	8.25	107	46-130			
Toluene	223		2.50	"	175	47.7	100	60-124			
Ethylbenzene	106		2.50	"	41.9	75.8	72.1	56-141			
Xylenes (total)	542		5.00	"	203	384	77.8	66-132			
Surrogate: 4-BFB (FID)	60.8			"	48.0		127	60-120			S-04

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J26003: Prepared 10/26/04 Using EPA 5030B (P/T)

Matrix Spike (4J26003-MS1)

Source: B4J0626-01

Surrogate: 4-BFB (PID) 50.8 ug/l 48.0 106 68-140

Matrix Spike Dup (4J26003-MSD1)

Source: B4J0626-01

Gasoline Range Hydrocarbons	4220		250	ug/l	2510	2370	73.7	60-120	0.952	20	
Benzene	39.9		1.00	"	31.0	8.25	102	46-130	3.69	40	
Toluene	225		2.50	"	175	47.7	101	60-124	0.893	40	
Ethylbenzene	106		2.50	"	41.9	75.8	72.1	56-141	0.00	40	
Xylenes (total)	543		5.00	"	203	384	78.3	66-132	0.184	40	
Surrogate: 4-BFB (FID)	61.5			"	48.0		128	60-120			S-04
Surrogate: 4-BFB (PID)	51.1			"	48.0		106	68-140			

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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/14/04 08:06

Diesel Hydrocarbons (C10-C25) by AK102 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27011: Prepared 10/27/04 Using EPA 3520C

Blank (4J27011-BLK1)

Diesel Range Hydrocarbons	ND		0.100	mg/l							
Surrogate: 2-FBP	0.219			"	0.250		87.6	50-150			

LCS (4J27011-BS1)

Diesel Range Hydrocarbons	1.65		0.100	mg/l	1.87		88.2	75-125			
Surrogate: 2-FBP	0.229			"	0.250		91.6	50-150			

LCS Dup (4J27011-BSD1)

Diesel Range Hydrocarbons	1.67		0.100	mg/l	1.87		89.3	75-125	1.20	20	
Surrogate: 2-FBP	0.232			"	0.250		92.8	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27011: Prepared 10/27/04 Using EPA 3520C

Blank (4J27011-BLK1)

Diesel Range Hydrocarbons	ND		0.100	mg/l							
Residual Range Organics	ND		0.750	"							
Surrogate: 2-FBP	0.219			"	0.250		87.6	50-150			
Surrogate: Octacosane	0.237			"	0.240		98.8	50-150			

LCS (4J27011-BS1)

Diesel Range Hydrocarbons	1.65		0.100	mg/l	1.87		88.2	75-125			
Surrogate: 2-FBP	0.229			"	0.250		91.6	50-150			

LCS (4J27011-BS2)

Residual Range Organics	1.55		0.750	mg/l	2.00		77.5	60-120			
Surrogate: Octacosane	0.221			"	0.240		92.1	50-150			

LCS Dup (4J27011-BSD1)

Diesel Range Hydrocarbons	1.67		0.100	mg/l	1.87		89.3	75-125	1.20	20	
Surrogate: 2-FBP	0.232			"	0.250		92.8	50-150			

LCS Dup (4J27011-BSD2)

Residual Range Organics	1.56		0.750	mg/l	2.00		78.0	60-120	0.643	20	
Surrogate: Octacosane	0.214			"	0.240		89.2	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**BTEX by EPA Method 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J26003: Prepared 10/26/04 Using EPA 5030B (P/T)

Blank (4J26003-BLK1)

Benzene	ND		0.200	ug/l							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		1.00	"							
<i>Surrogate: 4-BFB (PID)</i>	47.3			"	48.0		98.5	68-140			

LCS (4J26003-BS1)

Benzene	6.93		0.200	ug/l	6.21		112	80-120			
Toluene	37.2		0.500	"	34.9		107	80-120			
Ethylbenzene	9.46		0.500	"	8.38		113	80-120			
Xylenes (total)	45.8		1.00	"	40.6		113	80-120			
<i>Surrogate: 4-BFB (PID)</i>	47.9			"	48.0		99.8	68-140			

LCS Dup (4J26003-BSD1)

Benzene	6.98		0.200	ug/l	6.21	8.25	112	80-120	0.719	25	
Toluene	37.5		0.500	"	34.9	47.7	107	80-120	0.803	25	
Ethylbenzene	9.46		0.500	"	8.38	75.8	113	80-120	0.00	25	
Xylenes (total)	45.7		1.00	"	40.6	384	113	80-120	0.219	25	
<i>Surrogate: 4-BFB (PID)</i>	47.6			"	48.0		99.2	68-140			

Matrix Spike (4J26003-MS1)

Source: B4J0626-01

Benzene	41.4		1.00	ug/l	31.0	8.25	107	46-130			
Toluene	223		2.50	"	175	47.7	100	60-124			
Ethylbenzene	106		2.50	"	41.9	75.8	72.1	56-141			
Xylenes (total)	542		5.00	"	203	384	77.8	66-132			
<i>Surrogate: 4-BFB (PID)</i>	50.8			"	48.0		106	68-140			

Matrix Spike Dup (4J26003-MSD1)

Source: B4J0626-01

Benzene	39.9		1.00	ug/l	31.0	8.25	102	46-130	3.69	40	
Toluene	225		2.50	"	175	47.7	101	60-124	0.893	40	
Ethylbenzene	106		2.50	"	41.9	75.8	72.1	56-141	0.00	40	
Xylenes (total)	543		5.00	"	203	384	78.3	66-132	0.184	40	
<i>Surrogate: 4-BFB (PID)</i>	51.1			"	48.0		106	68-140			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/14/04 08:06

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J21033: Prepared 10/21/04 Using EPA 3020A

Blank (4J21033-BLK1)

Lead	ND		0.00100	mg/l							
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LCS (4J21033-BS1)

Lead	0.0806		0.00100	mg/l	0.0800		101	80-120			
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LCS Dup (4J21033-BSD1)

Lead	0.0803		0.00100	mg/l	0.0800		100	80-120	0.373	20	
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Matrix Spike (4J21033-MS1)

Source: B4J0626-01

Lead	0.0771		0.00100	mg/l	0.0800	0.000250	96.1	78-125			
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Matrix Spike Dup (4J21033-MSD1)

Source: B4J0626-01

Lead	0.0779		0.00100	mg/l	0.0800	0.000250	97.1	78-125	1.03	20	
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Post Spike (4J21033-PS1)

Source: B4J0626-01

Lead	0.0999			ug/ml	0.0995	0.000250	100	75-125			
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North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**EDB and DBCP by EPA Method 8011 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J20052: Prepared 10/20/04 Using Solvent Extraction

Blank (4J20052-BLK1)

1,2-Dibromoethane (EDB)	ND		0.010	ug/l							
1,2-Dibromo-3-chloropropane	ND		0.010	"							

LCS (4J20052-BS1)

1,2-Dibromoethane (EDB)	0.050		0.010	ug/l	0.0500		100	80-120			
1,2-Dibromo-3-chloropropane	0.053		0.010	"	0.0500		106	80-120			

LCS Dup (4J20052-BSD1)

1,2-Dibromoethane (EDB)	0.051		0.010	ug/l	0.0500		102	80-120	1.98	40	
1,2-Dibromo-3-chloropropane	0.054		0.010	"	0.0500		108	80-120	1.87	40	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J24009: Prepared 10/22/04 Using EPA 5030B

Blank (4J24009-BLK1)

Acetone	ND		20.0	ug/l							
Benzene	ND		1.00	"							
Bromobenzene	ND		1.00	"							
Bromochloromethane	ND		1.00	"							
Bromodichloromethane	ND		1.00	"							
Bromoform	ND		1.00	"							
Bromomethane	ND		2.00	"							
2-Butanone	ND		10.0	"							
n-Butylbenzene	ND		1.00	"							
sec-Butylbenzene	ND		1.00	"							
tert-Butylbenzene	ND		1.00	"							
Carbon disulfide	ND		1.00	"							
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	"							
Dibromochloromethane	ND		1.00	"							
1,2-Dibromo-3-chloropropane	ND		5.00	"							
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		1.00	"							
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	"							

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J24009: Prepared 10/22/04 Using EPA 5030B

Blank (4J24009-BLK1)

1,2-Dichloropropane	ND		1.00	ug/l							
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	"							
Hexachlorobutadiene	ND		1.00	"							
Methyl tert-butyl ether	ND		2.00	"							
2-Hexanone	ND		10.0	"							
Isopropylbenzene	ND		1.00	"							
p-Isopropyltoluene	ND		1.00	"							
4-Methyl-2-pentanone	ND		10.0	"							
Methylene chloride	ND		5.00	"							
Naphthalene	ND		1.00	"							
n-Propylbenzene	ND		1.00	"							
Styrene	ND		1.00	"							
1,2,3-Trichlorobenzene	ND		1.00	"							
1,2,4-Trichlorobenzene	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	"							
1,1,1-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	"							

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J24009: Prepared 10/22/04 Using EPA 5030B

Blank (4J24009-BLK1)

m,p-Xylene	ND		2.00	ug/l							
<i>Surrogate: 1,2-DCA-d4</i>	20.0			"	20.0		100	70-130			
<i>Surrogate: Toluene-d8</i>	20.0			"	20.0		100	70-130			
<i>Surrogate: 4-BFB</i>	20.2			"	20.0		101	70-130			

LCS (4J24009-BS1)

Benzene	18.8		1.00	ug/l	20.0		94.0	80-120			
Chlorobenzene	18.8		1.00	"	20.0		94.0	77-120			
1,1-Dichloroethene	18.4		1.00	"	20.0		92.0	80-120			
Methyl tert-butyl ether	20.0		2.00	"	20.0		100	80-120			
Toluene	19.3		1.00	"	20.0		96.5	80-120			
Trichloroethene	18.7		1.00	"	20.0		93.5	80-120			
<i>Surrogate: 1,2-DCA-d4</i>	19.8			"	20.0		99.0	70-130			
<i>Surrogate: Toluene-d8</i>	20.4			"	20.0		102	70-130			
<i>Surrogate: 4-BFB</i>	20.2			"	20.0		101	70-130			

LCS Dup (4J24009-BSD1)

Benzene	19.0		1.00	ug/l	20.0		95.0	80-120	1.06	20	
Chlorobenzene	19.0		1.00	"	20.0		95.0	77-120	1.06	20	
1,1-Dichloroethene	18.4		1.00	"	20.0		92.0	80-120	0.00	20	
Methyl tert-butyl ether	20.0		2.00	"	20.0		100	80-120	0.00	20	
Toluene	18.9		1.00	"	20.0		94.5	80-120	2.09	20	
Trichloroethene	18.2		1.00	"	20.0		91.0	80-120	2.71	20	
<i>Surrogate: 1,2-DCA-d4</i>	19.9			"	20.0		99.5	70-130			
<i>Surrogate: Toluene-d8</i>	20.0			"	20.0		100	70-130			
<i>Surrogate: 4-BFB</i>	20.0			"	20.0		100	70-130			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J24010: Prepared 10/24/04 Using EPA 5030B

Blank (4J24010-BLK1)

Acetone	ND		20.0	ug/l							
Benzene	ND		1.00	"							
Bromobenzene	ND		1.00	"							
Bromochloromethane	ND		1.00	"							
Bromodichloromethane	ND		1.00	"							
Bromoform	ND		1.00	"							
Bromomethane	ND		2.00	"							
2-Butanone	ND		10.0	"							
n-Butylbenzene	ND		1.00	"							
sec-Butylbenzene	ND		1.00	"							
tert-Butylbenzene	ND		1.00	"							
Carbon disulfide	ND		1.00	"							
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	"							
Dibromochloromethane	ND		1.00	"							
1,2-Dibromo-3-chloropropane	ND		5.00	"							
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		1.00	"							
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	"							

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J24010: Prepared 10/24/04 Using EPA 5030B

Blank (4J24010-BLK1)

1,2-Dichloropropane	ND		1.00	ug/l							
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	"							
Hexachlorobutadiene	ND		1.00	"							
Methyl tert-butyl ether	ND		2.00	"							
2-Hexanone	ND		10.0	"							
Isopropylbenzene	ND		1.00	"							
p-Isopropyltoluene	ND		1.00	"							
4-Methyl-2-pentanone	ND		10.0	"							
Methylene chloride	ND		2.00	"							
Naphthalene	ND		1.00	"							
n-Propylbenzene	ND		1.00	"							
Styrene	ND		1.00	"							
1,2,3-Trichlorobenzene	ND		1.00	"							
1,2,4-Trichlorobenzene	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	"							
1,1,1-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	"							

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J24010: Prepared 10/24/04 Using EPA 5030B

Blank (4J24010-BLK1)

m,p-Xylene	ND		2.00	ug/l							
<i>Surrogate: 1,2-DCA-d4</i>	22.0			"	20.0		110	70-130			
<i>Surrogate: Toluene-d8</i>	18.1			"	20.0		90.5	70-130			
<i>Surrogate: 4-BFB</i>	18.0			"	20.0		90.0	70-130			

LCS (4J24010-BS1)

Benzene	17.6		1.00	ug/l	20.0		88.0	80-120			
Chlorobenzene	20.0		1.00	"	20.0		100	77-120			
1,1-Dichloroethene	19.4		1.00	"	20.0		97.0	80-120			
Methyl tert-butyl ether	20.8		2.00	"	20.0		104	80-120			
Toluene	16.0		1.00	"	20.0		80.0	80-120			
Trichloroethene	19.5		1.00	"	20.0		97.5	80-120			
<i>Surrogate: 1,2-DCA-d4</i>	20.2			"	20.0		101	70-130			
<i>Surrogate: Toluene-d8</i>	18.4			"	20.0		92.0	70-130			
<i>Surrogate: 4-BFB</i>	18.4			"	20.0		92.0	70-130			

LCS Dup (4J24010-BSD1)

Benzene	18.6		1.00	ug/l	20.0		93.0	80-120	5.52	20	
Chlorobenzene	20.8		1.00	"	20.0		104	77-120	3.92	20	
1,1-Dichloroethene	19.9		1.00	"	20.0		99.5	80-120	2.54	20	
Methyl tert-butyl ether	20.8		2.00	"	20.0		104	80-120	0.00	20	
Toluene	17.2		1.00	"	20.0		86.0	80-120	7.23	20	
Trichloroethene	20.2		1.00	"	20.0		101	80-120	3.53	20	
<i>Surrogate: 1,2-DCA-d4</i>	20.2			"	20.0		101	70-130			
<i>Surrogate: Toluene-d8</i>	18.2			"	20.0		91.0	70-130			
<i>Surrogate: 4-BFB</i>	18.2			"	20.0		91.0	70-130			

North Creek Analytical - Bothell

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Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27030: Prepared 10/26/04 Using EPA 5030B

Blank (4J27030-BLK1)

Acetone	ND		20.0	ug/l							
Benzene	ND		1.00	"							
Bromobenzene	ND		1.00	"							
Bromochloromethane	ND		1.00	"							
Bromodichloromethane	ND		1.00	"							
Bromoform	ND		1.00	"							
Bromomethane	ND		2.00	"							
2-Butanone	ND		10.0	"							
n-Butylbenzene	ND		1.00	"							
sec-Butylbenzene	ND		1.00	"							
tert-Butylbenzene	ND		1.00	"							
Carbon disulfide	ND		1.00	"							
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	"							
Dibromochloromethane	ND		1.00	"							
1,2-Dibromo-3-chloropropane	ND		5.00	"							
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		1.00	"							
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	"							

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Reported:
12/14/04 08:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27030: Prepared 10/26/04 Using EPA 5030B

Blank (4J27030-BLK1)

1,2-Dichloropropane	ND		1.00	ug/l							
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	"							
Hexachlorobutadiene	ND		1.00	"							
Methyl tert-butyl ether	ND		2.00	"							
2-Hexanone	ND		10.0	"							
Isopropylbenzene	ND		1.00	"							
p-Isopropyltoluene	ND		1.00	"							
4-Methyl-2-pentanone	ND		10.0	"							
Methylene chloride	ND		5.00	"							
Naphthalene	ND		1.00	"							
n-Propylbenzene	ND		1.00	"							
Styrene	ND		1.00	"							
1,2,3-Trichlorobenzene	ND		1.00	"							
1,2,4-Trichlorobenzene	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	"							
1,1,1-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	"							

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27030: Prepared 10/26/04 Using EPA 5030B

Blank (4J27030-BLK1)

m,p-Xylene	ND		2.00	ug/l							
<i>Surrogate: 1,2-DCA-d4</i>	19.9			"	20.0		99.5	70-130			
<i>Surrogate: Toluene-d8</i>	19.0			"	20.0		95.0	70-130			
<i>Surrogate: 4-BFB</i>	20.1			"	20.0		100	70-130			

LCS (4J27030-BS1)

Benzene	16.9		1.00	ug/l	20.0		84.5	80-120			
Chlorobenzene	19.3		1.00	"	20.0		96.5	77-120			
1,1-Dichloroethene	18.6		1.00	"	20.0		93.0	80-120			
Methyl tert-butyl ether	18.1		2.00	"	20.0		90.5	80-120			
Toluene	18.1		1.00	"	20.0		90.5	80-120			
Trichloroethene	18.6		1.00	"	20.0		93.0	80-120			
<i>Surrogate: 1,2-DCA-d4</i>	20.3			"	20.0		102	70-130			
<i>Surrogate: Toluene-d8</i>	18.7			"	20.0		93.5	70-130			
<i>Surrogate: 4-BFB</i>	20.0			"	20.0		100	70-130			

LCS Dup (4J27030-BSD1)

Benzene	16.5		1.00	ug/l	20.0		82.5	80-120	2.40	20	
Chlorobenzene	18.2		1.00	"	20.0		91.0	77-120	5.87	20	
1,1-Dichloroethene	17.8		1.00	"	20.0		89.0	80-120	4.40	20	
Methyl tert-butyl ether	18.5		2.00	"	20.0		92.5	80-120	2.19	20	
Toluene	17.4		1.00	"	20.0		87.0	80-120	3.94	20	
Trichloroethene	18.2		1.00	"	20.0		91.0	80-120	2.17	20	
<i>Surrogate: 1,2-DCA-d4</i>	20.2			"	20.0		101	70-130			
<i>Surrogate: Toluene-d8</i>	18.4			"	20.0		92.0	70-130			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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907.563.9200 fax 907.563.9210

SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4J20011: Prepared 10/20/04 Using EPA 3520C

Blank (4J20011-BLK1)

1-Methylnaphthalene	ND		0.100	ug/l							
2-Methylnaphthalene	ND		0.100	"							
Acenaphthene	ND		0.100	"							
Acenaphthylene	ND		0.100	"							
Anthracene	ND		0.100	"							
Benzo (a) anthracene	ND		0.100	"							
Benzo (a) pyrene	ND		0.100	"							
Benzo (b) fluoranthene	ND		0.100	"							
Benzo (ghi) perylene	ND		0.100	"							
Benzo (k) fluoranthene	ND		0.100	"							
Chrysene	ND		0.100	"							
Dibenz (a,h) anthracene	ND		0.100	"							
Fluoranthene	ND		0.100	"							
Fluorene	ND		0.100	"							
Indeno (1,2,3-cd) pyrene	ND		0.100	"							
Naphthalene	ND		0.100	"							
Phenanthrene	ND		0.100	"							
Pyrene	ND		0.100	"							
Surrogate: p-Terphenyl-d14	59.5			"	50.0		119	20-127			

LCS (4J20011-BS1)

1-Methylnaphthalene	6.88		0.100	ug/l	10.0		68.8	41-120			
2-Methylnaphthalene	6.14		0.100	"	10.0		61.4	42-120			
Acenaphthene	7.20		0.100	"	10.0		72.0	34-120			
Acenaphthylene	7.19		0.100	"	10.0		71.9	36-120			
Anthracene	7.54		0.100	"	10.0		75.4	35-138			
Benzo (a) anthracene	6.89		0.100	"	10.0		68.9	41-121			
Benzo (a) pyrene	7.84		0.100	"	10.0		78.4	33-125			
Benzo (b) fluoranthene	6.97		0.100	"	10.0		69.7	35-133			
Benzo (ghi) perylene	7.83		0.100	"	10.0		78.3	25-121			
Benzo (k) fluoranthene	6.62		0.100	"	10.0		66.2	28-127			
Chrysene	8.22		0.100	"	10.0		82.2	41-120			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4J20011: Prepared 10/20/04 Using EPA 3520C

LCS (4J20011-BS1)

Dibenz (a,h) anthracene	8.58		0.100	ug/l	10.0		85.8	24-120			
Fluoranthene	7.75		0.100	"	10.0		77.5	33-137			
Fluorene	7.33		0.100	"	10.0		73.3	42-120			
Indeno (1,2,3-cd) pyrene	8.27		0.100	"	10.0		82.7	26-122			
Naphthalene	6.91		0.100	"	10.0		69.1	38-120			
Phenanthrene	7.05		0.100	"	10.0		70.5	31-127			
Pyrene	9.04		0.100	"	10.0		90.4	42-125			
<i>Surrogate: p-Terphenyl-d14</i>	56.8			"	50.0		114	20-127			

LCS Dup (4J20011-BSD1)

1-Methylnaphthalene	7.05		0.100	ug/l	10.0		70.5	41-120	2.44	30	
2-Methylnaphthalene	6.41		0.100	"	10.0		64.1	42-120	4.30	30	
Acenaphthene	7.39		0.100	"	10.0		73.9	34-120	2.60	30	
Acenaphthylene	7.39		0.100	"	10.0		73.9	36-120	2.74	30	
Anthracene	7.84		0.100	"	10.0		78.4	35-138	3.90	30	
Benzo (a) anthracene	7.23		0.100	"	10.0		72.3	41-121	4.82	30	
Benzo (a) pyrene	8.21		0.100	"	10.0		82.1	33-125	4.61	30	
Benzo (b) fluoranthene	7.83		0.100	"	10.0		78.3	35-133	11.6	30	
Benzo (ghi) perylene	8.17		0.100	"	10.0		81.7	25-121	4.25	30	
Benzo (k) fluoranthene	6.93		0.100	"	10.0		69.3	28-127	4.58	30	
Chrysene	8.66		0.100	"	10.0		86.6	41-120	5.21	30	
Dibenz (a,h) anthracene	8.91		0.100	"	10.0		89.1	24-120	3.77	30	
Fluoranthene	8.10		0.100	"	10.0		81.0	33-137	4.42	30	
Fluorene	7.61		0.100	"	10.0		76.1	42-120	3.75	30	
Indeno (1,2,3-cd) pyrene	8.72		0.100	"	10.0		87.2	26-122	5.30	30	
Naphthalene	7.19		0.100	"	10.0		71.9	38-120	3.97	30	
Phenanthrene	7.31		0.100	"	10.0		73.1	31-127	3.62	30	
Pyrene	9.52		0.100	"	10.0		95.2	42-125	5.17	30	
<i>Surrogate: p-Terphenyl-d14</i>	62.7			"	50.0		125	20-127			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/14/04 08:06

Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- E Estimated value. The reported value exceeds the calibration range of the analysis.
- E-01 Estimated value. The reported value exceeds the capacity of the detector and therefore is unreliable.
- I-02 This sample was analyzed outside of the recommended holding time.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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10 December 2004

Andy Dimitriou
SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503
RE: FIA Former Mark Air Facilities

Enclosed are the results of analyses for samples received by the laboratory on 10/16/04 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager

CASE NARRATIVE for B4J0700

Client: SLR Alaska
Project Manager: Andy Dimitriou
Project Name: FIA Former Mark Air Facilities
Project Number: 004.0184.00001

1.0 DESCRIPTION OF CASE

Fifteen (15) water samples were submitted for the analysis of:

- Gasoline Range Hydrocarbons and BTEX by AK101/EPA 8021B
- Diesel Hydrocarbons and Heavy Oil by AK102 and AK103
- BTEX by EPA method 8021B
- Total Metals by EPA 6000/7000 Series Methods
- Volatile Organic Compounds by EPA Method 8260B
- Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received 16th October 2004 at a temperature of 4.8°C and logged in 21st October 2004. A Trip Blank, which was not listed on the COC, was received in addition to the project samples. The COC was amended to note the receipt of the Trip Blank, which was then logged in and placed on hold.

3.0 PREPARATION AND ANALYSIS

Gasoline Range Hydrocarbons and BTEX by AK101/EPA 8021B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Diesel Hydrocarbons and Heavy Oil by AK102 and AK103

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

BTEX by EPA method 8021B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.



Amar Gill
Project Manager
North Creek Analytical

CASE NARRATIVE for B4J0700

Total Metals by EPA 6000/7000 Series Methods

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Volatile Organic Compounds by EPA Method 8260B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

The project samples were extracted in analytical batch 4J21019. The percent recoveries of spike compounds, Acenaphthylene and Benzo(a)Pyrene were below control limits in the analytical batch Blank Spike Duplicate (BSD). The Relative Percent Difference (RPD) for each spike compounds Acenaphthylene and Benzo(a)Pyrene, Benzo(g,h,i)perylene, Indene(1,2,3-cd)Pyrene and Pyrene was outside control limits. The additional sample volume remained to allow for re-extraction of the samples. The samples were re-extracted outside holding time in analytical batch 4K18062. The percent recovery of spike compound Benzo(K)fluoranthene was above control limits in the analytical batch BSD. All project samples extracted in analytical batch 4K18062 were non-detect for this compound so no further action was deemed necessary. Both the initial and re-extracted data were provided for completeness. No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.



Amar Gill
Project Manager
North Creek Analytical



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 503-906-9200 FAX 906-9210
 541-383-9310 FAX 382-7588
 907-334-9200 FAX 334-9210

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

CHAIN OF CUSTODY REPORT

Work Order #: **B4J0700**

CLIENT: **FIA / ADOT & PF**
 REPORT TO: **SLR Alaska**
 ADDRESS: **2525 Blueberry Rd., Ste 206**
Anchorage, AK 99503
 Attn: **Andy Dimitriou**
 PHONE: **907.222.1112** FAX: **907.222.1113**

INVOICE TO:
SLR Alaska
 P.O. NUMBER:

TURNAROUND REQUEST
 in Business Days *
 Organic & Inorganic Analyses
 7 5 4 3 2 1 <1
 STD.
 Petroleum Hydrocarbon Analyses
 4 3 2 1 <1
 STD.
 OTHER Specify: _____
 * Turnaround Requests less than standard may incur Rush Charges.

PROJECT NAME: **Former Mark Air Facilities**
 PROJECT NUMBER: **004-0184-0001**
 SAMPLED BY: **D. Filler**

PRESERVATIVE
 HCl HCl HCl HCl HCl - **HAO**

REQUESTED ANALYSES

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX EPA 8021B	ERO	AK101	AK102	RR0	AK107	VOC	EPA 8260	PAH EPA 8270	Lead	Cu	As	Hg	Se	Bi	Mo	Ag	Cd	Cr	Mn	Ni	Pb	Sn	Tl	Zn	
1 MW-2	10-14-04 1735		X	X				X			X																
2 WP-7	10-14-04 1635		X	X	X	X																					
3 WP-5	10-14-04 1910		X	X	X	X																					
4 WP-12	10-15-04 0720	X	X						X																		
5 MW-7	10-15-04 0810	X	X	X					X																		
6 WP-11N (G)	10-15-04 0920	X	X	X				X	X	X																	
7 WP-11N (B)	10-15-04 0940		X	X				X	X	X																	
8 WP-10	10-15-04 1040	X	X	X					X																		
9 MW-1	10-15-04 1145	X		X	X	X		X			X																
10 MW-3	10-15-04 1300	X		X	X	X		X			X																

MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
W	9		01
W	8		02
W	8		03
W	5		04
W	7		05
W	11		06
W	11		07
W	7		08
W	9		09
W	9		10

RELEASED BY: **Dennis Filler** DATE: **10-15-04**
 PRINT NAME: **Dennis Filler** FIRM: **SLR Alaska** TIME: **5:00 p**

RECEIVED BY: **Dennis Hardman** DATE: **10-16-04**
 PRINT NAME: **Dennis Hardman** FIRM: **NCA** TIME: **16:00**

ADDITIONAL REMARKS: _____
 TEMP: **4.8** w/cs PAGE 1 OF 2



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CHAIN OF CUSTODY REPORT

Work Order #: **B4J0700**

CLIENT: FIA/ADOT&PF		INVOICE TO: SLR Alaska		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>								
REPORT TO: SLR Alaska ADDRESS: 2525 Blueberry Rd., ste 206 Anchorage, AK. 99503		P.O. NUMBER:										
PHONE: 907.222.1112 FAX: 907.222.1113		PROJECT NAME: Former Mark Air Facilities		PRESERVATIVE								
PROJECT NUMBER: 004.0184-0001		HCl HCl HCl HCl HCl None		REQUESTED ANALYSES								
SAMPLED BY: D. Filler												
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX EPA 8021D	6RO AK101	DRO AK102	ARO AK103	VOL EPA 8260	PAH EPA 8270	Lead 6000/7000	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 MW-8	10-15-04 1345	X		X			X		W	7		11
2 WP-13	10-15-04 1430	X		X			X		W	7		12
3 MW-6	10-15-04 1635	X		X	X	X		X	W	9		13
4 MW-7A	10-15-04 1810			X					W	2	Dup of MW-7	14
5 WP-11A	10-15-04 1600					X			W	3	Dup of WP-11N(G)	15
6												
7												
8												
9												
10												
RELEASED BY: Dennis Filler	DATE: 10-15-04	RECEIVED BY: Dennis Hardman	DATE: 10-16-04									
PRINT NAME: Dennis Filler	FIRM: SLR Alaska	TIME: 5:00p	PRINT NAME: Dennis Hardman	FIRM: NCA	TIME: 14:00							
RELEASED BY:	DATE:	RECEIVED BY:	DATE:									
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:	TIME:								
ADDITIONAL REMARKS:												
										TEMP: 4.9	PAGE 2 OF 2	

WCS



Revised Chain of Custody

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 541-383-9310 FAX 382-7588
 907-334-9200 FAX 334-9210

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

CHAIN OF CUSTODY REPORT

Work Order #: **B4J0700**

CLIENT: FIA/ADOT&PF		INVOICE TO: SLR Alaska		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>													
REPORT TO: SLR Alaska ADDRESS: 2525 Blueberry Rd., Ste 206 Anchorage, AK 99503		P.O. NUMBER:															
PHONE: 907.222.1112 FAX: 907.222.1113		PRESERVATIVE															
PROJECT NAME: Former Mark Air Facilities		PROJECT NUMBER: 007.0107-00001		REQUESTED ANALYSES													
SAMPLED BY: D. Filler																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX	EPA 824-D	EPA 821-D	AK 101	AK 102	AK 103	VOL	EPA 8260	PAH	EPA 8270	Lead	6000/7000	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 Mw-8	10-15-04 1345	X		X					X					W	7		11
2 WP-13	10-15-04 1430	X		X					X					W	7		12
3 MW-6	10-15-04 1635	X		X	X	X	X		X			X		W	9		13
4 MW-7A	10-15-04 1810			X										W	2	Dup of MW-7	14
5 WP-11A	10-15-04 1600							X						W	3	Dup of WP-11N(6)	15
6 Trip blank	10-15-04 1200													W	9		16
7																	
8																	
9																	
10																	
RELEASED BY: Dennis Filler		DATE: 10-15-04		RECEIVED BY: Dennis Hardman		DATE: 10-16-04											
PRINT NAME: Dennis Filler		FIRM: SLR Alaska		TIME: 5:00p		PRINT NAME: Dennis Hardman		FIRM: NCA		TIME: 14:00							
RELEASED BY:		DATE:		RECEIVED BY:		DATE:											
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:											
ADDITIONAL REMARKS:																	

10/21/04 CW

WCS TEMP: 4.9 PAGE 2 OF 2



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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/10/04 16:18
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	B4J0700-01	Water	10/14/04 17:35	10/16/04 16:00
WP-7	B4J0700-02	Water	10/14/04 16:35	10/16/04 16:00
WP-5	B4J0700-03	Water	10/14/04 19:10	10/16/04 16:00
WP-12	B4J0700-04	Water	10/15/04 07:20	10/16/04 16:00
MW-7	B4J0700-05	Water	10/15/04 08:10	10/16/04 16:00
WP-11N(G)	B4J0700-06	Water	10/15/04 09:20	10/16/04 16:00
WP-11N(B)	B4J0700-07	Water	10/15/04 09:40	10/16/04 16:00
WP-10	B4J0700-08	Water	10/15/04 10:40	10/16/04 16:00
MW-1	B4J0700-09	Water	10/15/04 11:45	10/16/04 16:00
MW-3	B4J0700-10	Water	10/15/04 13:00	10/16/04 16:00
MW-8	B4J0700-11	Water	10/15/04 13:45	10/16/04 16:00
WP-13	B4J0700-12	Water	10/15/04 14:30	10/16/04 16:00
MW-6	B4J0700-13	Water	10/15/04 16:35	10/16/04 16:00
MW-7A	B4J0700-14	Water	10/15/04 18:10	10/16/04 16:00
WP-11A	B4J0700-15	Water	10/15/04 16:00	10/16/04 16:00

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Gasoline Range Hydrocarbons (n-Hexane to <n-Decane) by AK101
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B4J0700-01) Water Sampled: 10/14/04 17:35 Received: 10/16/04 16:00										
Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J27003	10/27/04	10/27/04	AK 101	
Surrogate: 4-BFB (FID)	92.1 %		60-120			"	"	"	"	
WP-7 (B4J0700-02) Water Sampled: 10/14/04 16:35 Received: 10/16/04 16:00										
Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J27003	10/27/04	10/27/04	AK 101	
Surrogate: 4-BFB (FID)	99.6 %		60-120			"	"	"	"	
WP-5 (B4J0700-03) Water Sampled: 10/14/04 19:10 Received: 10/16/04 16:00										
Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J27003	10/27/04	10/27/04	AK 101	
Surrogate: 4-BFB (FID)	101 %		60-120			"	"	"	"	
WP-11N(G) (B4J0700-06) Water Sampled: 10/15/04 09:20 Received: 10/16/04 16:00										
Gasoline Range Hydrocarbons	75.3		50.0	ug/l	1	4J27003	10/27/04	10/27/04	AK 101	
Surrogate: 4-BFB (FID)	108 %		60-120			"	"	"	"	
WP-11N(B) (B4J0700-07) Water Sampled: 10/15/04 09:40 Received: 10/16/04 16:00										
Gasoline Range Hydrocarbons	ND		50.0	ug/l	1	4J27003	10/27/04	10/27/04	AK 101	
Surrogate: 4-BFB (FID)	103 %		60-120			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-12 (B4J0700-04) Water Sampled: 10/15/04 07:20 Received: 10/16/04 16:00

Gasoline Range Hydrocarbons	1560		50.0	ug/l	1	4J27003	10/27/04	10/27/04	AK 101	
Benzene	51.8		0.200	"	"	"	"	"	"	
Toluene	4.51		0.500	"	"	"	"	"	"	
Ethylbenzene	174		2.50	"	5	"	"	10/27/04	"	
Xylenes (total)	25.5		1.00	"	1	"	"	10/27/04	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>197 %</i>		<i>60-120</i>			"	"	"	"	<i>S-04</i>
<i>Surrogate: 4-BFB (PID)</i>	<i>128 %</i>		<i>68-140</i>			"	"	"	"	

MW-7 (B4J0700-05) Water Sampled: 10/15/04 08:10 Received: 10/16/04 16:00

Gasoline Range Hydrocarbons	3310		500	ug/l	10	4J27003	10/27/04	10/27/04	AK 101	
Benzene	130		2.00	"	"	"	"	"	"	
Toluene	23.3		5.00	"	"	"	"	"	"	
Ethylbenzene	305		5.00	"	"	"	"	"	"	
Xylenes (total)	934		10.0	"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>146 %</i>		<i>60-120</i>			"	"	"	"	<i>S-04</i>
<i>Surrogate: 4-BFB (PID)</i>	<i>112 %</i>		<i>68-140</i>			"	"	"	"	

WP-10 (B4J0700-08) Water Sampled: 10/15/04 10:40 Received: 10/16/04 16:00

Gasoline Range Hydrocarbons	178		50.0	ug/l	1	4J27003	10/27/04	10/27/04	AK 101	
Benzene	1.99		0.200	"	"	"	"	"	"	
Toluene	1.38		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	20.0		1.00	"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>119 %</i>		<i>60-120</i>			"	"	"	"	
<i>Surrogate: 4-BFB (PID)</i>	<i>109 %</i>		<i>68-140</i>			"	"	"	"	

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Diesel Hydrocarbons (C10-C25) by AK102
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B4J0700-01) Water Sampled: 10/14/04 17:35 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	0.409		0.100	mg/l	1	4J27011	10/27/04	10/28/04	AK 102	
<i>Surrogate: 2-FBP</i>	96.3 %		50-150			"	"	"	"	
MW-7 (B4J0700-05) Water Sampled: 10/15/04 08:10 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	1.96		0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK 102	
<i>Surrogate: 2-FBP</i>	81.1 %		50-150			"	"	"	"	
<i>Surrogate: Octacosane</i>	87.9 %		50-150			"	"	"	"	
WP-11N(G) (B4J0700-06) Water Sampled: 10/15/04 09:20 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	ND		0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK 102	
<i>Surrogate: 2-FBP</i>	72.0 %		50-150			"	"	"	"	
WP-11N(B) (B4J0700-07) Water Sampled: 10/15/04 09:40 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	1.47		0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK 102	
<i>Surrogate: 2-FBP</i>	86.2 %		50-150			"	"	"	"	
WP-10 (B4J0700-08) Water Sampled: 10/15/04 10:40 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	1.36		0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK 102	
<i>Surrogate: 2-FBP</i>	85.8 %		50-150			"	"	"	"	
MW-8 (B4J0700-11) Water Sampled: 10/15/04 13:45 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	1.54		0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK 102	
<i>Surrogate: 2-FBP</i>	78.9 %		50-150			"	"	"	"	
WP-13 (B4J0700-12) Water Sampled: 10/15/04 14:30 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	4.87		0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK 102	
<i>Surrogate: 2-FBP</i>	88.7 %		50-150			"	"	"	"	

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**Diesel Hydrocarbons (C10-C25) by AK102
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7A (B4J0700-14) Water Sampled: 10/15/04 18:10 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	2.22		0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK 102	
<i>Surrogate: 2-FBP</i>	<i>82.1 %</i>		<i>50-150</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-7 (B4J0700-02) Water Sampled: 10/14/04 16:35 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	0.0770	0.0260	0.100	mg/l	1	4J27011	10/27/04	10/28/04	AK102/103	J
Residual Range Organics	ND	0.100	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	80.3 %		50-150			"	"	"	"	
Surrogate: Octacosane	99.1 %		50-150			"	"	"	"	
WP-5 (B4J0700-03) Water Sampled: 10/14/04 19:10 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	0.290	0.0260	0.100	mg/l	1	4J27011	10/27/04	10/28/04	AK102/103	J
Residual Range Organics	0.229	0.100	0.750	"	"	"	"	"	"	J
Surrogate: 2-FBP	95.5 %		50-150			"	"	"	"	
Surrogate: Octacosane	116 %		50-150			"	"	"	"	
MW-1 (B4J0700-09) Water Sampled: 10/15/04 11:45 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	0.188	0.104	0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK102/103	J
Residual Range Organics	ND	0.400	3.00	"	"	"	"	"	"	
Surrogate: 2-FBP	71.0 %		50-150			"	"	"	"	
Surrogate: Octacosane	84.8 %		50-150			"	"	"	"	
MW-3 (B4J0700-10) Water Sampled: 10/15/04 13:00 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	0.160	0.104	0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK102/103	J
Residual Range Organics	ND	0.400	3.00	"	"	"	"	"	"	
Surrogate: 2-FBP	80.9 %		50-150			"	"	"	"	
Surrogate: Octacosane	88.8 %		50-150			"	"	"	"	
MW-6 (B4J0700-13) Water Sampled: 10/15/04 16:35 Received: 10/16/04 16:00										
Diesel Range Hydrocarbons	0.242	0.104	0.400	mg/l	1	4J27067	10/27/04	10/29/04	AK102/103	J
Residual Range Organics	ND	0.400	3.00	"	"	"	"	"	"	
Surrogate: 2-FBP	73.8 %		50-150			"	"	"	"	
Surrogate: Octacosane	91.9 %		50-150			"	"	"	"	

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**BTEX by EPA Method 8021B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B4J0700-09) Water Sampled: 10/15/04 11:45 Received: 10/16/04 16:00										
Benzene	ND		0.200	ug/l	1	4J27003	10/27/04	10/27/04	EPA 8021B	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	0.512		0.500	"	"	"	"	"	"	
Xylenes (total)	1.48		1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	93.3 %		68-140			"	"	"	"	
MW-3 (B4J0700-10) Water Sampled: 10/15/04 13:00 Received: 10/16/04 16:00										
Benzene	ND		0.200	ug/l	1	4J27003	10/27/04	10/27/04	EPA 8021B	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	0.660		0.500	"	"	"	"	"	"	
Xylenes (total)	1.70		1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	92.5 %		68-140			"	"	"	"	
MW-8 (B4J0700-11) Water Sampled: 10/15/04 13:45 Received: 10/16/04 16:00										
Benzene	51.5		2.00	ug/l	10	4J27003	10/27/04	10/28/04	EPA 8021B	
Toluene	41.7		5.00	"	"	"	"	"	"	
Ethylbenzene	90.4		5.00	"	"	"	"	"	"	
Xylenes (total)	1030		10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	104 %		68-140			"	"	"	"	
WP-13 (B4J0700-12) Water Sampled: 10/15/04 14:30 Received: 10/16/04 16:00										
Benzene	0.532		0.200	ug/l	1	4J27003	10/27/04	10/27/04	EPA 8021B	
Toluene	2.08		0.500	"	"	"	"	"	"	
Ethylbenzene	42.3		0.500	"	"	"	"	"	"	
Xylenes (total)	9.95		1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	127 %		68-140			"	"	"	"	

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Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

BTEX by EPA Method 8021B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (B4J0700-13) Water Sampled: 10/15/04 16:35 Received: 10/16/04 16:00										
Benzene	ND		0.200	ug/l	1	4J27003	10/27/04	10/27/04	EPA 8021B	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	0.948		0.500	"	"	"	"	"	"	
Xylenes (total)	3.73		1.00	"	"	"	"	"	"	
<i>Surrogate: 4-BFB (PID)</i>	<i>97.3 %</i>		<i>68-140</i>			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B4J0700-01) Water Sampled: 10/14/04 17:35 Received: 10/16/04 16:00										
Lead	ND		0.00100	mg/l	1	4J26027	10/26/04	10/28/04	EPA 6020	
WP-11N(G) (B4J0700-06) Water Sampled: 10/15/04 09:20 Received: 10/16/04 16:00										
Lead	ND		0.00100	mg/l	1	4J25049	10/25/04	10/28/04	EPA 6020	
WP-11N(B) (B4J0700-07) Water Sampled: 10/15/04 09:40 Received: 10/16/04 16:00										
Lead	ND		0.00100	mg/l	1	4J25049	10/25/04	10/28/04	EPA 6020	
MW-1 (B4J0700-09) Water Sampled: 10/15/04 11:45 Received: 10/16/04 16:00										
Lead	0.00241		0.00100	mg/l	1	4J25049	10/25/04	10/28/04	EPA 6020	
MW-3 (B4J0700-10) Water Sampled: 10/15/04 13:00 Received: 10/16/04 16:00										
Lead	ND		0.00100	mg/l	1	4J25049	10/25/04	10/28/04	EPA 6020	
MW-6 (B4J0700-13) Water Sampled: 10/15/04 16:35 Received: 10/16/04 16:00										
Lead	0.0232		0.00100	mg/l	1	4J25049	10/25/04	10/28/04	EPA 6020	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B4J0700-01) Water Sampled: 10/14/04 17:35 Received: 10/16/04 16:00										
Acetone	ND		20.0	ug/l	1	4J27051	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (B4J0700-01) Water Sampled: 10/14/04 17:35 Received: 10/16/04 16:00										
Ethylbenzene	ND		1.00	ug/l	1	4J27051	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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: 1,2-DCA-d4	102 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	96.0 %		70-130			"	"	"	"	
Surrogate: 4-BFB	102 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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2525 Blueberry Road, Suite 206
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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-7 (B4J0700-02) Water Sampled: 10/14/04 16:35 Received: 10/16/04 16:00										
Acetone	ND		20.0	ug/l	1	4J27051	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-7 (B4J0700-02) Water										Q-24
Sampled: 10/14/04 16:35										Received: 10/16/04 16:00
Ethylbenzene	ND		1.00	ug/l	1	4J27051	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	"	
Trichloroethene	ND		1.00	"	"	"	"	"	"	
Trichlorofluoromethane	22.0		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: 1,2-DCA-d4</i>	<i>103 %</i>		<i>70-130</i>							
<i>Surrogate: Toluene-d8</i>	<i>96.0 %</i>		<i>70-130</i>							
<i>Surrogate: 4-BFB</i>	<i>99.0 %</i>		<i>70-130</i>							

North Creek Analytical - Bothell

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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-5 (B4J0700-03) Water Sampled: 10/14/04 19:10 Received: 10/16/04 16:00										
Acetone	ND		20.0	ug/l	1	4J27051	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-5 (B4J0700-03) Water Sampled: 10/14/04 19:10 Received: 10/16/04 16:00										
Ethylbenzene	ND		1.00	ug/l	1	4J27051	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	2.10		1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	"	
Trichloroethene	ND		1.00	"	"	"	"	"	"	
Trichlorofluoromethane	2.31		1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.06		1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	"	
Vinyl chloride	ND		1.00	"	"	"	"	"	"	
o-Xylene	ND		1.00	"	"	"	"	"	"	
m,p-Xylene	2.53		2.00	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>	<i>102 %</i>		<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.0 %</i>		<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-BFB</i>	<i>100 %</i>		<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-11N(G) (B4J0700-06) Water Sampled: 10/15/04 09:20 Received: 10/16/04 16:00

Acetone	ND		20.0	ug/l	1	4J27051	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-11N(G) (B4J0700-06) Water Sampled: 10/15/04 09:20 Received: 10/16/04 16:00										
Ethylbenzene	4.08		1.00	ug/l	1	4J27051	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	3.10		1.00	"	"	"	"	"	"	
n-Propylbenzene	1.17		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	5.95		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	3.44		1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.24		1.00	"	"	"	"	"	"	
Vinyl chloride	ND		1.00	"	"	"	"	"	"	
o-Xylene	2.96		1.00	"	"	"	"	"	"	
m,p-Xylene	10.2		2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	103 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	95.0 %		70-130			"	"	"	"	
Surrogate: 4-BFB	97.5 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-11N(B) (B4J0700-07) Water Sampled: 10/15/04 09:40 Received: 10/16/04 16:00										
Acetone	ND		20.0	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
1,1-Dichloroethane	1.14		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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-11N(B) (B4J0700-07) Water Sampled: 10/15/04 09:40 Received: 10/16/04 16:00										
Ethylbenzene	1.04		1.00	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	1.84		1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	"	
Trichloroethene	2.41		1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.11		1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	"	
Vinyl chloride	ND		1.00	"	"	"	"	"	"	
o-Xylene	ND		1.00	"	"	"	"	"	"	
m,p-Xylene	2.83		2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	101 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	96.5 %		70-130			"	"	"	"	
Surrogate: 4-BFB	100 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B4J0700-09) Water Sampled: 10/15/04 11:45 Received: 10/16/04 16:00										
Acetone	ND		20.0	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (B4J0700-09) Water Sampled: 10/15/04 11:45 Received: 10/16/04 16:00										
Ethylbenzene	ND		1.00	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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	1.22		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: 1,2-DCA-d4	110 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	"	
Surrogate: 4-BFB	102 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-3 (B4J0700-10) Water Sampled: 10/15/04 13:00 Received: 10/16/04 16:00

Acetone	ND		20.0	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/10/04 16:18

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (B4J0700-10) Water Sampled: 10/15/04 13:00 Received: 10/16/04 16:00										
Ethylbenzene	ND		1.00	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	ND		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	"	
Trichloroethene	ND		1.00	"	"	"	"	"	"	
Trichlorofluoromethane	27.3		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: 1,2-DCA-d4</i>	<i>102 %</i>		<i>70-130</i>							
<i>Surrogate: Toluene-d8</i>	<i>96.0 %</i>		<i>70-130</i>							
<i>Surrogate: 4-BFB</i>	<i>96.0 %</i>		<i>70-130</i>							

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (B4J0700-13) Water Sampled: 10/15/04 16:35 Received: 10/16/04 16:00										
Acetone	ND		20.0	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (B4J0700-13) Water Sampled: 10/15/04 16:35 Received: 10/16/04 16:00										
Ethylbenzene	ND		1.00	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	1.04		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	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	"	"	"	"	"	"	
1,1,1-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	1.21		1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	"	
Vinyl chloride	ND		1.00	"	"	"	"	"	"	
o-Xylene	1.16		1.00	"	"	"	"	"	"	
m,p-Xylene	2.25		2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	102 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %		70-130			"	"	"	"	
Surrogate: 4-BFB	101 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-11A (B4J0700-15) Water Sampled: 10/15/04 16:00 Received: 10/16/04 16:00										
Acetone	ND		20.0	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Benzene	ND		1.00	"	"	"	"	"	"	
Bromobenzene	ND		1.00	"	"	"	"	"	"	
Bromochloromethane	ND		1.00	"	"	"	"	"	"	
Bromodichloromethane	ND		1.00	"	"	"	"	"	"	
Bromoform	ND		1.00	"	"	"	"	"	"	
Bromomethane	ND		2.00	"	"	"	"	"	"	
2-Butanone	ND		10.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND		1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND		1.00	"	"	"	"	"	"	
Carbon disulfide	ND		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Dibromochloromethane	ND		1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	"	
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		1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-11A (B4J0700-15) Water Sampled: 10/15/04 16:00 Received: 10/16/04 16:00										
Ethylbenzene	2.16		1.00	ug/l	1	4J28019	10/28/04	10/28/04	EPA 8260B	
Hexachlorobutadiene	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		2.00	"	"	"	"	"	"	
2-Hexanone	ND		10.0	"	"	"	"	"	"	
Isopropylbenzene	ND		1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND		1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10.0	"	"	"	"	"	"	
Methylene chloride	ND		5.00	"	"	"	"	"	"	
Naphthalene	1.50		1.00	"	"	"	"	"	"	
n-Propylbenzene	ND		1.00	"	"	"	"	"	"	
Styrene	ND		1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	"	
Tetrachloroethene	ND		1.00	"	"	"	"	"	"	
Toluene	2.62		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	2.30		1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	"	
Vinyl chloride	ND		1.00	"	"	"	"	"	"	
o-Xylene	1.41		1.00	"	"	"	"	"	"	
m,p-Xylene	5.37		2.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	100 %		70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %		70-130			"	"	"	"	
Surrogate: 4-BFB	110 %		70-130			"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-12 (B4J0700-04) Water Sampled: 10/15/04 07:20 Received: 10/16/04 16:00										
1-Methylnaphthalene	7.10		0.500	ug/l	5	4J21019	10/21/04	11/04/04	8270C-SIM	
2-Methylnaphthalene	1.70		0.500	"	"	"	"	"	"	
Acenaphthene	ND		0.500	"	"	"	"	"	"	
Acenaphthylene	ND		0.500	"	"	"	"	"	"	X
Anthracene	ND		0.500	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.500	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.500	"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND		0.500	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.500	"	"	"	"	"	"	X
Benzo (k) fluoranthene	ND		0.500	"	"	"	"	"	"	
Chrysene	ND		0.500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.500	"	"	"	"	"	"	
Fluoranthene	ND		0.500	"	"	"	"	"	"	
Fluorene	ND		0.500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.500	"	"	"	"	"	"	X
Naphthalene	17.5		0.500	"	"	"	"	"	"	
Phenanthrene	ND		0.500	"	"	"	"	"	"	
Pyrene	ND		0.500	"	"	"	"	"	"	X
<i>Surrogate: p-Terphenyl-d14</i>	<i>69.8 %</i>		<i>20-127</i>			"	"	"	"	

WP-12 (B4J0700-04RE1) Water Sampled: 10/15/04 07:20 Received: 10/16/04 16:00										Q-29
1-Methylnaphthalene	13.1		0.500	ug/l	5	4K18062	11/18/04	11/30/04	8270C-SIM	
2-Methylnaphthalene	3.10		0.500	"	"	"	"	"	"	
Acenaphthene	ND		0.500	"	"	"	"	"	"	
Acenaphthylene	0.952		0.500	"	"	"	"	"	"	
Anthracene	ND		0.500	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.500	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.500	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.500	"	"	"	"	"	"	X
Chrysene	ND		0.500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.500	"	"	"	"	"	"	
Fluoranthene	ND		0.500	"	"	"	"	"	"	
Fluorene	ND		0.500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.500	"	"	"	"	"	"	
Naphthalene	28.5		0.500	"	"	"	"	"	"	
Phenanthrene	ND		0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-12 (B4J0700-04RE1) Water **Sampled: 10/15/04 07:20** **Received: 10/16/04 16:00** **Q-29**

Pyrene	ND		0.500	ug/l	5	4K18062	11/18/04	11/30/04	8270C-SIM	
<i>Surrogate: p-Terphenyl-d14</i>	66.8 %		20-127			"	"	"	"	

MW-7 (B4J0700-05) Water **Sampled: 10/15/04 08:10** **Received: 10/16/04 16:00**

1-Methylnaphthalene	56.3		2.00	ug/l	20	4J21019	10/21/04	11/05/04	8270C-SIM	
2-Methylnaphthalene	65.9		2.00	"	"	"	"	"	"	
Acenaphthene	ND		2.00	"	"	"	"	"	"	
Acenaphthylene	ND		2.00	"	"	"	"	"	"	X
Anthracene	ND		2.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND		2.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND		2.00	"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND		2.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		2.00	"	"	"	"	"	"	X
Benzo (k) fluoranthene	ND		2.00	"	"	"	"	"	"	
Chrysene	ND		2.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		2.00	"	"	"	"	"	"	
Fluoranthene	ND		2.00	"	"	"	"	"	"	
Fluorene	ND		2.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		2.00	"	"	"	"	"	"	X
Naphthalene	207		2.00	"	"	"	"	"	"	
Phenanthrene	ND		2.00	"	"	"	"	"	"	
Pyrene	ND		2.00	"	"	"	"	"	"	X
<i>Surrogate: p-Terphenyl-d14</i>	74.9 %		20-127			"	"	"	"	

MW-7 (B4J0700-05RE1) Water **Sampled: 10/15/04 08:10** **Received: 10/16/04 16:00** **Q-29**

1-Methylnaphthalene	103		2.00	ug/l	20	4K18062	11/18/04	11/30/04	8270C-SIM	
2-Methylnaphthalene	122		2.00	"	"	"	"	"	"	
Acenaphthene	ND		2.00	"	"	"	"	"	"	
Acenaphthylene	ND		2.00	"	"	"	"	"	"	
Anthracene	ND		2.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND		2.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND		2.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		2.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		2.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		2.00	"	"	"	"	"	"	X
Chrysene	ND		2.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		2.00	"	"	"	"	"	"	
Fluoranthene	ND		2.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (B4J0700-05RE1) Water Sampled: 10/15/04 08:10 Received: 10/16/04 16:00 Q-29										
Fluorene	ND		2.00	ug/l	20	4K18062	11/18/04	11/30/04	8270C-SIM	
Indeno (1,2,3-cd) pyrene	ND		2.00	"	"	"	"	"	"	
Naphthalene	328		2.00	"	"	"	"	"	"	
Phenanthrene	ND		2.00	"	"	"	"	"	"	
Pyrene	ND		2.00	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>	55.7 %		20-127			"	"	"	"	
WP-11N(G) (B4J0700-06) Water Sampled: 10/15/04 09:20 Received: 10/16/04 16:00										
1-Methylnaphthalene	0.192		0.100	ug/l	1	4J21019	10/21/04	11/04/04	8270C-SIM	
2-Methylnaphthalene	0.146		0.100	"	"	"	"	"	"	
Acenaphthene	ND		0.100	"	"	"	"	"	"	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	X
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	X
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	
Fluorene	ND		0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	X
Naphthalene	0.468		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	X
<i>Surrogate: p-Terphenyl-d14</i>	74.2 %		20-127			"	"	"	"	

North Creek Analytical - Bothell

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Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-11N(G) (B4J0700-06RE1) Water Sampled: 10/15/04 09:20 Received: 10/16/04 16:00 Q-29										
1-Methylnaphthalene	ND		0.100	ug/l	1	4K18062	11/18/04	11/30/04	8270C-SIM	
2-Methylnaphthalene	ND		0.100	"	"	"	"	"	"	
Acenaphthene	ND		0.100	"	"	"	"	"	"	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	X
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	
Fluorene	ND		0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	
Naphthalene	ND		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	

Surrogate: p-Terphenyl-d14 74.2 % 20-127 " " " "

WP-11N(B) (B4J0700-07) Water Sampled: 10/15/04 09:40 Received: 10/16/04 16:00										
1-Methylnaphthalene	0.146		0.100	ug/l	1	4J21019	10/21/04	11/04/04	8270C-SIM	
2-Methylnaphthalene	0.157		0.100	"	"	"	"	"	"	
Acenaphthene	ND		0.100	"	"	"	"	"	"	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	X
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	X
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	
Fluorene	ND		0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	X
Naphthalene	0.322		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-11N(B) (B4J0700-07) Water **Sampled: 10/15/04 09:40** **Received: 10/16/04 16:00**

Pyrene	ND		0.100	ug/l	1	4J21019	10/21/04	11/04/04	8270C-SIM	X
Surrogate: <i>p</i> -Terphenyl-d14	67.8 %		20-127			"	"	"	"	

WP-11N(B) (B4J0700-07RE1) Water **Sampled: 10/15/04 09:40** **Received: 10/16/04 16:00**

Q-29

1-Methylnaphthalene	0.169		0.100	ug/l	1	4K18062	11/18/04	11/30/04	8270C-SIM	
2-Methylnaphthalene	0.181		0.100	"	"	"	"	"	"	
Acenaphthene	ND		0.100	"	"	"	"	"	"	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	0.129		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	X
Chrysene	0.112		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	
Fluorene	ND		0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	
Naphthalene	0.277		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl-d14	77.1 %		20-127			"	"	"	"	

WP-10 (B4J0700-08) Water **Sampled: 10/15/04 10:40** **Received: 10/16/04 16:00**

1-Methylnaphthalene	7.16		0.100	ug/l	1	4J21019	10/21/04	11/04/04	8270C-SIM	
2-Methylnaphthalene	5.78		0.100	"	"	"	"	"	"	
Acenaphthene	ND		0.100	"	"	"	"	"	"	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	X
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	X
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WP-10 (B4J0700-08) Water Sampled: 10/15/04 10:40 Received: 10/16/04 16:00

Fluorene	0.169		0.100	ug/l	1	4J21019	10/21/04	11/04/04	8270C-SIM	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	X
Naphthalene	5.34		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	X
<i>Surrogate: p-Terphenyl-d14</i>	<i>64.7 %</i>		<i>20-127</i>							

WP-10 (B4J0700-08RE1) Water Sampled: 10/15/04 10:40 Received: 10/16/04 16:00

Q-29

1-Methylnaphthalene	11.0		0.100	ug/l	1	4K18062	11/18/04	11/30/04	8270C-SIM	
2-Methylnaphthalene	8.82		0.100	"	"	"	"	"	"	
Acenaphthene	0.141		0.100	"	"	"	"	"	"	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	X
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	
Fluorene	0.240		0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	
Naphthalene	6.26		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>	<i>71.0 %</i>		<i>20-127</i>							

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (B4J0700-11) Water Sampled: 10/15/04 13:45 Received: 10/16/04 16:00										
1-Methylnaphthalene	46.5		1.00	ug/l	10	4J21019	10/21/04	11/05/04	8270C-SIM	
2-Methylnaphthalene	36.3		1.00	"	"	"	"	"	"	
Acenaphthene	ND		1.00	"	"	"	"	"	"	
Acenaphthylene	ND		1.00	"	"	"	"	"	"	X
Anthracene	ND		1.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND		1.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND		1.00	"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND		1.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		1.00	"	"	"	"	"	"	X
Benzo (k) fluoranthene	ND		1.00	"	"	"	"	"	"	
Chrysene	ND		1.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		1.00	"	"	"	"	"	"	
Fluoranthene	ND		1.00	"	"	"	"	"	"	
Fluorene	ND		1.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		1.00	"	"	"	"	"	"	X
Naphthalene	115		1.00	"	"	"	"	"	"	
Phenanthrene	ND		1.00	"	"	"	"	"	"	
Pyrene	ND		1.00	"	"	"	"	"	"	X
<i>Surrogate: p-Terphenyl-d14</i>	70.8 %		20-127			"	"	"	"	

MW-8 (B4J0700-11RE1) Water Sampled: 10/15/04 13:45 Received: 10/16/04 16:00 Q-29										
1-Methylnaphthalene	57.3		1.00	ug/l	10	4K18062	11/18/04	11/30/04	8270C-SIM	
2-Methylnaphthalene	41.1		1.00	"	"	"	"	"	"	
Acenaphthene	ND		1.00	"	"	"	"	"	"	
Acenaphthylene	ND		1.00	"	"	"	"	"	"	
Anthracene	ND		1.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND		1.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND		1.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		1.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		1.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		1.00	"	"	"	"	"	"	X
Chrysene	ND		1.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		1.00	"	"	"	"	"	"	
Fluoranthene	ND		1.00	"	"	"	"	"	"	
Fluorene	ND		1.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		1.00	"	"	"	"	"	"	
Naphthalene	114		1.00	"	"	"	"	"	"	
Phenanthrene	ND		1.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-8 (B4J0700-11RE1) Water **Sampled: 10/15/04 13:45** **Received: 10/16/04 16:00** **Q-29**

Pyrene	ND		1.00	ug/l	10	4K18062	11/18/04	11/30/04	8270C-SIM	
Surrogate: <i>p</i> -Terphenyl-d14	60.6 %		20-127			"	"	"	"	

WP-13 (B4J0700-12) Water **Sampled: 10/15/04 14:30** **Received: 10/16/04 16:00**

1-Methylnaphthalene	2.69		0.200	ug/l	2	4J21019	10/21/04	11/05/04	8270C-SIM	
2-Methylnaphthalene	2.85		0.200	"	"	"	"	"	"	
Acenaphthene	ND		0.200	"	"	"	"	"	"	
Acenaphthylene	ND		0.200	"	"	"	"	"	"	X
Anthracene	ND		0.200	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.200	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.200	"	"	"	"	"	"	X
Benzo (b) fluoranthene	ND		0.200	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.200	"	"	"	"	"	"	X
Benzo (k) fluoranthene	ND		0.200	"	"	"	"	"	"	
Chrysene	ND		0.200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.200	"	"	"	"	"	"	
Fluoranthene	ND		0.200	"	"	"	"	"	"	
Fluorene	ND		0.200	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.200	"	"	"	"	"	"	X
Naphthalene	43.0		0.200	"	"	"	"	"	"	
Phenanthrene	ND		0.200	"	"	"	"	"	"	
Pyrene	ND		0.200	"	"	"	"	"	"	X
Surrogate: <i>p</i> -Terphenyl-d14	60.6 %		20-127			"	"	"	"	

WP-13 (B4J0700-12RE1) Water **Sampled: 10/15/04 14:30** **Received: 10/16/04 16:00** **Q-29**

1-Methylnaphthalene	ND		0.200	ug/l	2	4K18062	11/18/04	11/30/04	8270C-SIM	
2-Methylnaphthalene	ND		0.200	"	"	"	"	"	"	
Acenaphthene	ND		0.200	"	"	"	"	"	"	
Acenaphthylene	0.792		0.200	"	"	"	"	"	"	
Anthracene	ND		0.200	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.200	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.200	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.200	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.200	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.200	"	"	"	"	"	"	X
Chrysene	ND		0.200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.200	"	"	"	"	"	"	
Fluoranthene	ND		0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-13 (B4J0700-12RE1) Water Sampled: 10/15/04 14:30 Received: 10/16/04 16:00 Q-29										
Fluorene	ND		0.200	ug/l	2	4K18062	11/18/04	11/30/04	8270C-SIM	
Indeno (1,2,3-cd) pyrene	ND		0.200	"	"	"	"	"	"	
Naphthalene	ND		0.200	"	"	"	"	"	"	
Phenanthrene	ND		0.200	"	"	"	"	"	"	
Pyrene	ND		0.200	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl-d14	67.0 %		20-127			"	"	"	"	

North Creek Analytical - Bothell

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Reported:
12/10/04 16:18

**Gasoline Range Hydrocarbons (n-Hexane to <n-Decane) by AK101 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27003: Prepared 10/27/04 Using EPA 5030B (P/T)

Blank (4J27003-BLK1)

Gasoline Range Hydrocarbons	ND		50.0	ug/l							
Surrogate: 4-BFB (FID)	47.7			"	48.0		99.4	60-120			

LCS (4J27003-BS1)

Gasoline Range Hydrocarbons	424		50.0	ug/l	502		84.5	60-120			
Surrogate: 4-BFB (FID)	53.4			"	48.0		111	60-120			

LCS Dup (4J27003-BSD1)

Gasoline Range Hydrocarbons	411		50.0	ug/l	502		81.9	60-120	3.11	20	
Surrogate: 4-BFB (FID)	54.8			"	48.0		114	60-120			

Matrix Spike (4J27003-MS1)

Source: B4J0700-01

Gasoline Range Hydrocarbons	412		50.0	ug/l	502	12.9	79.5	60-120			
Surrogate: 4-BFB (FID)	55.8			"	48.0		116	60-120			

Matrix Spike Dup (4J27003-MSD1)

Source: B4J0700-01

Gasoline Range Hydrocarbons	390		50.0	ug/l	502	12.9	75.1	60-120	5.49	20	
Surrogate: 4-BFB (FID)	55.1			"	48.0		115	60-120			

North Creek Analytical - Bothell

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Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27003: Prepared 10/27/04 Using EPA 5030B (P/T)

Blank (4J27003-BLK1)

Gasoline Range Hydrocarbons	ND		50.0	ug/l							
Benzene	ND		0.200	"							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		1.00	"							
Surrogate: 4-BFB (FID)	47.7			"	48.0		99.4	60-120			
Surrogate: 4-BFB (PID)	43.9			"	48.0		91.5	68-140			

LCS (4J27003-BS1)

Gasoline Range Hydrocarbons	424		50.0	ug/l	502		84.5	60-120			
Benzene	6.32		0.200	"	6.21		102	80-120			
Toluene	35.0		0.500	"	34.9		100	80-120			
Ethylbenzene	9.22		0.500	"	8.38		110	80-120			
Xylenes (total)	45.0		1.00	"	40.6		111	80-120			
Surrogate: 4-BFB (FID)	53.4			"	48.0		111	60-120			
Surrogate: 4-BFB (PID)	45.9			"	48.0		95.6	68-140			

LCS Dup (4J27003-BSD1)

Gasoline Range Hydrocarbons	411		50.0	ug/l	502		81.9	60-120	3.11	20	
Benzene	6.25		0.200	"	6.21		101	80-120	1.11	25	
Toluene	34.7		0.500	"	34.9		99.4	80-120	0.861	25	
Ethylbenzene	9.02		0.500	"	8.38		108	80-120	2.19	25	
Xylenes (total)	43.9		1.00	"	40.6		108	80-120	2.47	25	
Surrogate: 4-BFB (FID)	54.8			"	48.0		114	60-120			
Surrogate: 4-BFB (PID)	46.1			"	48.0		96.0	68-140			

Matrix Spike (4J27003-MS1)

Source: B4J0700-01

Gasoline Range Hydrocarbons	412		50.0	ug/l	502	12.9	79.5	60-120			
Benzene	6.32		0.200	"	6.21	ND	102	46-130			
Toluene	35.0		0.500	"	34.9	0.612	98.5	60-124			
Ethylbenzene	9.23		0.500	"	8.38	0.285	107	56-141			
Xylenes (total)	44.9		1.00	"	40.6	1.10	108	66-132			
Surrogate: 4-BFB (FID)	55.8			"	48.0		116	60-120			

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27003: Prepared 10/27/04 Using EPA 5030B (P/T)

Matrix Spike (4J27003-MS1)

Source: B4J0700-01

Surrogate: 4-BFB (PID) 46.1 ug/l 48.0 96.0 68-140

Matrix Spike Dup (4J27003-MSD1)

Source: B4J0700-01

Gasoline Range Hydrocarbons	390		50.0	ug/l	502	12.9	75.1	60-120	5.49	20	
Benzene	6.19		0.200	"	6.21	ND	99.7	46-130	2.08	40	
Toluene	34.5		0.500	"	34.9	0.612	97.1	60-124	1.44	40	
Ethylbenzene	8.96		0.500	"	8.38	0.285	104	56-141	2.97	40	
Xylenes (total)	43.9		1.00	"	40.6	1.10	105	66-132	2.25	40	
<i>Surrogate: 4-BFB (FID)</i>	55.1			"	48.0		115	60-120			
<i>Surrogate: 4-BFB (PID)</i>	46.2			"	48.0		96.2	68-140			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
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Diesel Hydrocarbons (C10-C25) by AK102 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27011: Prepared 10/27/04 Using EPA 3520C

Blank (4J27011-BLK1)

Diesel Range Hydrocarbons	ND		0.100	mg/l							
Surrogate: 2-FBP	0.219			"	0.250		87.6	50-150			

LCS (4J27011-BS1)

Diesel Range Hydrocarbons	1.65		0.100	mg/l	1.87		88.2	75-125			
Surrogate: 2-FBP	0.229			"	0.250		91.6	50-150			

LCS Dup (4J27011-BSD1)

Diesel Range Hydrocarbons	1.67		0.100	mg/l	1.87		89.3	75-125	1.20	20	
Surrogate: 2-FBP	0.232			"	0.250		92.8	50-150			

Batch 4J27067: Prepared 10/27/04 Using EPA 3520C

Blank (4J27067-BLK1)

Diesel Range Hydrocarbons	ND		0.100	mg/l							
Surrogate: 2-FBP	0.206			"	0.250		82.4	50-150			

LCS (4J27067-BS1)

Diesel Range Hydrocarbons	1.43		0.100	mg/l	1.87		76.5	75-125			
Surrogate: 2-FBP	0.174			"	0.250		69.6	50-150			

LCS Dup (4J27067-BSD1)

Diesel Range Hydrocarbons	1.63		0.100	mg/l	1.87		87.2	75-125	13.1	20	
Surrogate: 2-FBP	0.194			"	0.250		77.6	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
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**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27011: Prepared 10/27/04 Using EPA 3520C

Blank (4J27011-BLK1)

Diesel Range Hydrocarbons	0.0423	0.0260	0.100	mg/l							J
Residual Range Organics	ND	0.100	0.750	"							
Surrogate: 2-FBP	0.219			"	0.250		87.6	50-150			
Surrogate: Octacosane	0.237			"	0.240		98.8	50-150			

LCS (4J27011-BS1)

Diesel Range Hydrocarbons	1.65	0.0260	0.100	mg/l	1.87		88.2	75-125			
Surrogate: 2-FBP	0.229			"	0.250		91.6	50-150			

LCS (4J27011-BS2)

Residual Range Organics	1.55	0.100	0.750	mg/l	2.00		77.5	60-120			
Surrogate: Octacosane	0.221			"	0.240		92.1	50-150			

LCS Dup (4J27011-BSD1)

Diesel Range Hydrocarbons	1.67	0.0260	0.100	mg/l	1.87		89.3	75-125	1.20	20	
Surrogate: 2-FBP	0.232			"	0.250		92.8	50-150			

LCS Dup (4J27011-BSD2)

Residual Range Organics	1.56	0.100	0.750	mg/l	2.00		78.0	60-120	0.643	20	
Surrogate: Octacosane	0.214			"	0.240		89.2	50-150			

Batch 4J27067: Prepared 10/27/04 Using EPA 3520C

Blank (4J27067-BLK1)

Diesel Range Hydrocarbons	0.0313	0.0260	0.100	mg/l							J
Residual Range Organics	ND	0.100	0.750	"							
Surrogate: 2-FBP	0.206			"	0.250		82.4	50-150			
Surrogate: Octacosane	0.214			"	0.240		89.2	50-150			

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
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**Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) by AK102 and AK103 - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27067: Prepared 10/27/04 Using EPA 3520C

LCS (4J27067-BS1)

Diesel Range Hydrocarbons	1.43	0.0260	0.100	mg/l	1.87		76.5	75-125			
Surrogate: 2-FBP	0.174			"	0.250		69.6	50-150			

LCS (4J27067-BS2)

Residual Range Organics	1.77	0.100	0.750	mg/l	2.00		88.5	60-120			
Surrogate: Octacosane	0.233			"	0.240		97.1	50-150			

LCS Dup (4J27067-BSD1)

Diesel Range Hydrocarbons	1.63	0.0260	0.100	mg/l	1.87		87.2	75-125	13.1	20	
Surrogate: 2-FBP	0.194			"	0.250		77.6	50-150			

LCS Dup (4J27067-BSD2)

Residual Range Organics	1.80	0.100	0.750	mg/l	2.00		90.0	60-120	1.68	20	
Surrogate: Octacosane	0.223			"	0.240		92.9	50-150			

North Creek Analytical - Bothell

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
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**BTEX by EPA Method 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27003: Prepared 10/27/04 Using EPA 5030B (P/T)

Blank (4J27003-BLK1)

Benzene	ND		0.200	ug/l							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		1.00	"							
<i>Surrogate: 4-BFB (PID)</i>	<i>43.9</i>			<i>"</i>	<i>48.0</i>		<i>91.5</i>	<i>68-140</i>			

LCS (4J27003-BS1)

Benzene	6.32		0.200	ug/l	6.21		102	80-120			
Toluene	35.0		0.500	"	34.9		100	80-120			
Ethylbenzene	9.22		0.500	"	8.38		110	80-120			
Xylenes (total)	45.0		1.00	"	40.6		111	80-120			
<i>Surrogate: 4-BFB (PID)</i>	<i>45.9</i>			<i>"</i>	<i>48.0</i>		<i>95.6</i>	<i>68-140</i>			

LCS Dup (4J27003-BSD1)

Benzene	6.25		0.200	ug/l	6.21		101	80-120	1.11	25	
Toluene	34.7		0.500	"	34.9		99.4	80-120	0.861	25	
Ethylbenzene	9.02		0.500	"	8.38		108	80-120	2.19	25	
Xylenes (total)	43.9		1.00	"	40.6		108	80-120	2.47	25	
<i>Surrogate: 4-BFB (PID)</i>	<i>46.1</i>			<i>"</i>	<i>48.0</i>		<i>96.0</i>	<i>68-140</i>			

Matrix Spike (4J27003-MS1)

Source: B4J0700-01

Benzene	6.32		0.200	ug/l	6.21	ND	102	46-130			
Toluene	35.0		0.500	"	34.9	0.612	98.5	60-124			
Ethylbenzene	9.23		0.500	"	8.38	0.285	107	56-141			
Xylenes (total)	44.9		1.00	"	40.6	1.10	108	66-132			
<i>Surrogate: 4-BFB (PID)</i>	<i>46.1</i>			<i>"</i>	<i>48.0</i>		<i>96.0</i>	<i>68-140</i>			

Matrix Spike Dup (4J27003-MSD1)

Source: B4J0700-01

Benzene	6.19		0.200	ug/l	6.21	ND	99.7	46-130	2.08	40	
Toluene	34.5		0.500	"	34.9	0.612	97.1	60-124	1.44	40	
Ethylbenzene	8.96		0.500	"	8.38	0.285	104	56-141	2.97	40	
Xylenes (total)	43.9		1.00	"	40.6	1.10	105	66-132	2.25	40	
<i>Surrogate: 4-BFB (PID)</i>	<i>46.2</i>			<i>"</i>	<i>48.0</i>		<i>96.2</i>	<i>68-140</i>			

North Creek Analytical - Bothell

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

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**Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J25049: Prepared 10/25/04 Using EPA 3020A

Blank (4J25049-BLK1)

Lead	ND		0.00100	mg/l							
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LCS (4J25049-BS1)

Lead	0.0798		0.00100	mg/l	0.0800		99.8	80-120			
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LCS Dup (4J25049-BSD1)

Lead	0.0790		0.00100	mg/l	0.0800		98.8	80-120	1.01	20	
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Matrix Spike (4J25049-MS1)

Source: B4J0737-05

Lead	0.0777		0.00100	mg/l	0.0800	0.00127	95.5	78-125			
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Matrix Spike (4J25049-MS2)

Source: B4J0762-02

Lead	0.0784		0.00100	mg/l	0.0800	0.000570	97.3	78-125			
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Matrix Spike Dup (4J25049-MSD1)

Source: B4J0737-05

Lead	0.0793		0.00100	mg/l	0.0800	0.00127	97.5	78-125	2.04	20	
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Matrix Spike Dup (4J25049-MSD2)

Source: B4J0762-02

Lead	0.0786		0.00100	mg/l	0.0800	0.000570	97.5	78-125	0.255	20	
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Post Spike (4J25049-PS1)

Source: B4J0737-05

Lead	0.0976			ug/ml	0.0995	0.00127	96.8	75-125			
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Batch 4J26027: Prepared 10/26/04 Using EPA 3020A

Blank (4J26027-BLK1)

Lead	ND		0.00100	mg/l							
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Project Manager: Andy Dimitriou

Reported:
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J26027: Prepared 10/26/04 Using EPA 3020A

LCS (4J26027-BS1)

Lead	0.0744		0.00100	mg/l	0.0800		93.0	80-120			
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LCS Dup (4J26027-BSD1)

Lead	0.0737		0.00100	mg/l	0.0800		92.1	80-120	0.945	20	
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Matrix Spike (4J26027-MS1)

Source: B4J0829-01

Lead	0.0769		0.00100	mg/l	0.0800	ND	96.1	78-125			
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Matrix Spike Dup (4J26027-MSD1)

Source: B4J0829-01

Lead	0.0752		0.00100	mg/l	0.0800	ND	94.0	78-125	2.24	20	
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Post Spike (4J26027-PS1)

Source: B4J0829-01

Lead	0.0961			ug/ml	0.0995	ND	96.6	75-125			
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Project Manager: Andy Dimitriou

Reported:
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27051: Prepared 10/28/04 Using EPA 5030B

Blank (4J27051-BLK1)

Acetone	ND		20.0	ug/l							
Benzene	ND		1.00	"							
Bromobenzene	ND		1.00	"							
Bromochloromethane	ND		1.00	"							
Bromodichloromethane	ND		1.00	"							
Bromoform	ND		1.00	"							
Bromomethane	ND		2.00	"							
2-Butanone	ND		10.0	"							
n-Butylbenzene	ND		1.00	"							
sec-Butylbenzene	ND		1.00	"							
tert-Butylbenzene	ND		1.00	"							
Carbon disulfide	ND		1.00	"							
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	"							
Dibromochloromethane	ND		1.00	"							
1,2-Dibromo-3-chloropropane	ND		5.00	"							
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		1.00	"							
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	"							

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27051: Prepared 10/28/04 Using EPA 5030B

Blank (4J27051-BLK1)

1,2-Dichloropropane	ND		1.00	ug/l							
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	"							
Hexachlorobutadiene	ND		1.00	"							
Methyl tert-butyl ether	ND		2.00	"							
2-Hexanone	ND		10.0	"							
Isopropylbenzene	ND		1.00	"							
p-Isopropyltoluene	ND		1.00	"							
4-Methyl-2-pentanone	ND		10.0	"							
Methylene chloride	ND		5.00	"							
Naphthalene	ND		1.00	"							
n-Propylbenzene	ND		1.00	"							
Styrene	ND		1.00	"							
1,2,3-Trichlorobenzene	ND		1.00	"							
1,2,4-Trichlorobenzene	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	"							
1,1,1-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	"							

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J27051: Prepared 10/28/04 Using EPA 5030B

Blank (4J27051-BLK1)

m,p-Xylene	ND		2.00	ug/l							
<i>Surrogate: 1,2-DCA-d4</i>	20.4			"	20.0		102	70-130			
<i>Surrogate: Toluene-d8</i>	20.3			"	20.0		102	70-130			
<i>Surrogate: 4-BFB</i>	19.8			"	20.0		99.0	70-130			

LCS (4J27051-BS1)

Benzene	19.9		1.00	ug/l	20.0		99.5	80-120			
Chlorobenzene	19.4		1.00	"	20.0		97.0	77-120			
1,1-Dichloroethene	20.1		1.00	"	20.0		100	80-120			
Methyl tert-butyl ether	20.1		2.00	"	20.0		100	80-120			
Toluene	20.3		1.00	"	20.0		102	80-120			
Trichloroethene	19.0		1.00	"	20.0		95.0	80-120			
<i>Surrogate: 1,2-DCA-d4</i>	19.3			"	20.0		96.5	70-130			
<i>Surrogate: Toluene-d8</i>	20.4			"	20.0		102	70-130			
<i>Surrogate: 4-BFB</i>	20.8			"	20.0		104	70-130			

LCS Dup (4J27051-BSD1)

Benzene	19.7		1.00	ug/l	20.0		98.5	80-120	1.01	20	
Chlorobenzene	18.9		1.00	"	20.0		94.5	77-120	2.61	20	
1,1-Dichloroethene	19.7		1.00	"	20.0		98.5	80-120	2.01	20	
Methyl tert-butyl ether	20.3		2.00	"	20.0		102	80-120	0.990	20	
Toluene	19.9		1.00	"	20.0		99.5	80-120	1.99	20	
Trichloroethene	18.8		1.00	"	20.0		94.0	80-120	1.06	20	
<i>Surrogate: 1,2-DCA-d4</i>	19.8			"	20.0		99.0	70-130			
<i>Surrogate: Toluene-d8</i>	20.1			"	20.0		100	70-130			
<i>Surrogate: 4-BFB</i>	20.6			"	20.0		103	70-130			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J28019: Prepared 10/28/04 Using EPA 5030B

Blank (4J28019-BLK1)

Acetone	ND		20.0	ug/l							
Benzene	ND		1.00	"							
Bromobenzene	ND		1.00	"							
Bromochloromethane	ND		1.00	"							
Bromodichloromethane	ND		1.00	"							
Bromoform	ND		1.00	"							
Bromomethane	ND		2.00	"							
2-Butanone	ND		10.0	"							
n-Butylbenzene	ND		1.00	"							
sec-Butylbenzene	ND		1.00	"							
tert-Butylbenzene	ND		1.00	"							
Carbon disulfide	ND		1.00	"							
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	"							
Dibromochloromethane	ND		1.00	"							
1,2-Dibromo-3-chloropropane	ND		5.00	"							
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		1.00	"							
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	"							

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J28019: Prepared 10/28/04 Using EPA 5030B

Blank (4J28019-BLK1)

1,2-Dichloropropane	ND		1.00	ug/l							
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	"							
Hexachlorobutadiene	ND		1.00	"							
Methyl tert-butyl ether	ND		2.00	"							
2-Hexanone	ND		10.0	"							
Isopropylbenzene	ND		1.00	"							
p-Isopropyltoluene	ND		1.00	"							
4-Methyl-2-pentanone	ND		10.0	"							
Methylene chloride	ND		2.00	"							
Naphthalene	ND		1.00	"							
n-Propylbenzene	ND		1.00	"							
Styrene	ND		1.00	"							
1,2,3-Trichlorobenzene	ND		1.00	"							
1,2,4-Trichlorobenzene	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	"							
1,1,1-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	"							

North Creek Analytical - Bothell

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J28019: Prepared 10/28/04 Using EPA 5030B

Blank (4J28019-BLK1)

m,p-Xylene	ND		2.00	ug/l							
<i>Surrogate: 1,2-DCA-d4</i>	20.6			"	20.0		103	70-130			
<i>Surrogate: Toluene-d8</i>	19.8			"	20.0		99.0	70-130			
<i>Surrogate: 4-BFB</i>	20.2			"	20.0		101	70-130			

LCS (4J28019-BS1)

Benzene	19.2		1.00	ug/l	20.0		96.0	80-120			
Chlorobenzene	18.7		1.00	"	20.0		93.5	77-120			
1,1-Dichloroethene	19.3		1.00	"	20.0		96.5	80-120			
Methyl tert-butyl ether	21.7		2.00	"	20.0		108	80-120			
Toluene	19.0		1.00	"	20.0		95.0	80-120			
Trichloroethene	20.4		1.00	"	20.0		102	80-120			
<i>Surrogate: 1,2-DCA-d4</i>	19.7			"	20.0		98.5	70-130			
<i>Surrogate: Toluene-d8</i>	19.3			"	20.0		96.5	70-130			
<i>Surrogate: 4-BFB</i>	20.9			"	20.0		104	70-130			

LCS Dup (4J28019-BSD1)

Benzene	18.3		1.00	ug/l	20.0		91.5	80-120	4.80	20	
Chlorobenzene	18.2		1.00	"	20.0		91.0	77-120	2.71	20	
1,1-Dichloroethene	19.2		1.00	"	20.0		96.0	80-120	0.519	20	
Methyl tert-butyl ether	20.9		2.00	"	20.0		104	80-120	3.76	20	
Toluene	18.6		1.00	"	20.0		93.0	80-120	2.13	20	
Trichloroethene	19.7		1.00	"	20.0		98.5	80-120	3.49	20	
<i>Surrogate: 1,2-DCA-d4</i>	19.5			"	20.0		97.5	70-130			
<i>Surrogate: Toluene-d8</i>	19.2			"	20.0		96.0	70-130			
<i>Surrogate: 4-BFB</i>	20.3			"	20.0		102	70-130			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J21019: Prepared 10/21/04 Using EPA 3520C

Blank (4J21019-BLK1)

1-Methylnaphthalene	ND		0.100	ug/l							
2-Methylnaphthalene	ND		0.100	"							
Acenaphthene	ND		0.100	"							
Acenaphthylene	ND		0.100	"							X
Anthracene	ND		0.100	"							
Benzo (a) anthracene	ND		0.100	"							
Benzo (a) pyrene	ND		0.100	"							X
Benzo (b) fluoranthene	ND		0.100	"							
Benzo (ghi) perylene	ND		0.100	"							X
Benzo (k) fluoranthene	ND		0.100	"							
Chrysene	ND		0.100	"							
Dibenz (a,h) anthracene	ND		0.100	"							
Fluoranthene	ND		0.100	"							
Fluorene	ND		0.100	"							
Indeno (1,2,3-cd) pyrene	ND		0.100	"							X
Naphthalene	ND		0.100	"							
Phenanthrene	ND		0.100	"							
Pyrene	ND		0.100	"							X
Surrogate: p-Terphenyl-d14	38.6			"	50.0		77.2	20-127			

LCS (4J21019-BS2)

1-Methylnaphthalene	6.98		0.100	ug/l	10.0		69.8	41-120			
2-Methylnaphthalene	6.16		0.100	"	10.0		61.6	42-120			
Acenaphthene	7.08		0.100	"	10.0		70.8	34-120			
Acenaphthylene	7.03		0.100	"	10.0		70.3	36-120			X
Anthracene	7.89		0.100	"	10.0		78.9	35-138			
Benzo (a) anthracene	7.17		0.100	"	10.0		71.7	41-121			
Benzo (a) pyrene	7.96		0.100	"	10.0		79.6	33-125			X
Benzo (b) fluoranthene	7.19		0.100	"	10.0		71.9	35-133			
Benzo (ghi) perylene	7.71		0.100	"	10.0		77.1	25-121			X
Benzo (k) fluoranthene	7.51		0.100	"	10.0		75.1	28-127			
Chrysene	8.10		0.100	"	10.0		81.0	41-120			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J21019: Prepared 10/21/04 Using EPA 3520C

LCS (4J21019-BS2)

Dibenz (a,h) anthracene	8.76		0.100	ug/l	10.0		87.6	24-120			
Fluoranthene	8.34		0.100	"	10.0		83.4	33-137			
Fluorene	7.35		0.100	"	10.0		73.5	42-120			
Indeno (1,2,3-cd) pyrene	8.37		0.100	"	10.0		83.7	26-122			X
Naphthalene	6.87		0.100	"	10.0		68.7	38-120			
Phenanthrene	7.40		0.100	"	10.0		74.0	31-127			
Pyrene	8.67		0.100	"	10.0		86.7	42-125			X
<i>Surrogate: p-Terphenyl-d14</i>	<i>34.1</i>			<i>"</i>	<i>50.0</i>		<i>68.2</i>	<i>20-127</i>			

LCS Dup (4J21019-BSD2)

1-Methylnaphthalene	6.69		0.100	ug/l	10.0		66.9	41-120	4.24	30	
2-Methylnaphthalene	5.91		0.100	"	10.0		59.1	42-120	4.14	30	
Acenaphthene	6.69		0.100	"	10.0		66.9	34-120	5.66	30	
Acenaphthylene	1.57		0.100	"	10.0		15.7	36-120	127	30	X
Anthracene	6.77		0.100	"	10.0		67.7	35-138	15.3	30	
Benzo (a) anthracene	6.39		0.100	"	10.0		63.9	41-121	11.5	30	
Benzo (a) pyrene	2.41		0.100	"	10.0		24.1	33-125	107	30	X
Benzo (b) fluoranthene	7.57		0.100	"	10.0		75.7	35-133	5.15	30	
Benzo (ghi) perylene	3.59		0.100	"	10.0		35.9	25-121	72.9	30	X
Benzo (k) fluoranthene	5.73		0.100	"	10.0		57.3	28-127	26.9	30	
Chrysene	7.67		0.100	"	10.0		76.7	41-120	5.45	30	
Dibenz (a,h) anthracene	8.28		0.100	"	10.0		82.8	24-120	5.63	30	
Fluoranthene	7.68		0.100	"	10.0		76.8	33-137	8.24	30	
Fluorene	7.40		0.100	"	10.0		74.0	42-120	0.678	30	
Indeno (1,2,3-cd) pyrene	4.60		0.100	"	10.0		46.0	26-122	58.1	30	X
Naphthalene	6.88		0.100	"	10.0		68.8	38-120	0.145	30	
Phenanthrene	7.38		0.100	"	10.0		73.8	31-127	0.271	30	
Pyrene	5.71		0.100	"	10.0		57.1	42-125	41.2	30	X
<i>Surrogate: p-Terphenyl-d14</i>	<i>41.2</i>			<i>"</i>	<i>50.0</i>		<i>82.4</i>	<i>20-127</i>			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4K18062: Prepared 11/18/04 Using EPA 3520C

Blank (4K18062-BLK1)

1-Methylnaphthalene	ND		0.100	ug/l							
2-Methylnaphthalene	ND		0.100	"							
Acenaphthene	ND		0.100	"							
Acenaphthylene	ND		0.100	"							
Anthracene	ND		0.100	"							
Benzo (a) anthracene	ND		0.100	"							
Benzo (a) pyrene	ND		0.100	"							
Benzo (b) fluoranthene	ND		0.100	"							
Benzo (ghi) perylene	ND		0.100	"							
Benzo (k) fluoranthene	ND		0.100	"							
Chrysene	ND		0.100	"							
Dibenz (a,h) anthracene	ND		0.100	"							
Fluoranthene	ND		0.100	"							
Fluorene	ND		0.100	"							
Indeno (1,2,3-cd) pyrene	ND		0.100	"							
Naphthalene	ND		0.100	"							
Phenanthrene	ND		0.100	"							
Pyrene	ND		0.100	"							
Surrogate: p-Terphenyl-d14	35.8			"	50.0		71.6	20-127			

LCS (4K18062-BS2)

1-Methylnaphthalene	22.5		0.100	ug/l	20.0		112	41-120			
2-Methylnaphthalene	21.1		0.100	"	20.0		106	42-120			
Acenaphthene	20.3		0.100	"	20.0		102	34-120			
Acenaphthylene	21.2		0.100	"	20.0		106	36-120			
Anthracene	25.3		0.100	"	20.0		126	35-138			
Benzo (a) anthracene	18.2		0.100	"	20.0		91.0	41-121			
Benzo (a) pyrene	22.5		0.100	"	20.0		112	33-125			
Benzo (b) fluoranthene	25.4		0.100	"	20.0		127	35-133			
Benzo (ghi) perylene	19.3		0.100	"	20.0		96.5	25-121			
Benzo (k) fluoranthene	24.4		0.100	"	20.0		122	28-127			
Chrysene	21.9		0.100	"	20.0		110	41-120			

North Creek Analytical - Bothell

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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/10/04 16:18

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4K18062: Prepared 11/18/04 Using EPA 3520C

LCS (4K18062-BS2)

Dibenz (a,h) anthracene	20.3		0.100	ug/l	20.0		102	24-120			
Fluoranthene	23.7		0.100	"	20.0		118	33-137			
Fluorene	23.4		0.100	"	20.0		117	42-120			
Indeno (1,2,3-cd) pyrene	19.4		0.100	"	20.0		97.0	26-122			
Naphthalene	20.6		0.100	"	20.0		103	38-120			
Phenanthrene	21.3		0.100	"	20.0		106	31-127			
Pyrene	19.4		0.100	"	20.0		97.0	42-125			
<i>Surrogate: p-Terphenyl-d14</i>	<i>32.4</i>			<i>"</i>	<i>50.0</i>		<i>64.8</i>	<i>20-127</i>			

LCS Dup (4K18062-BSD2)

1-Methylnaphthalene	23.3		0.100	ug/l	20.0		116	41-120	3.49	30	
2-Methylnaphthalene	22.6		0.100	"	20.0		113	42-120	6.86	30	
Acenaphthene	20.8		0.100	"	20.0		104	34-120	2.43	30	
Acenaphthylene	21.4		0.100	"	20.0		107	36-120	0.939	30	
Anthracene	25.2		0.100	"	20.0		126	35-138	0.396	30	
Benzo (a) anthracene	18.8		0.100	"	20.0		94.0	41-121	3.24	30	
Benzo (a) pyrene	23.0		0.100	"	20.0		115	33-125	2.20	30	
Benzo (b) fluoranthene	25.3		0.100	"	20.0		126	35-133	0.394	30	
Benzo (ghi) perylene	19.2		0.100	"	20.0		96.0	25-121	0.519	30	
Benzo (k) fluoranthene	26.3		0.100	"	20.0		132	28-127	7.50	30	X
Chrysene	22.3		0.100	"	20.0		112	41-120	1.81	30	
Dibenz (a,h) anthracene	20.6		0.100	"	20.0		103	24-120	1.47	30	
Fluoranthene	24.0		0.100	"	20.0		120	33-137	1.26	30	
Fluorene	24.1		0.100	"	20.0		120	42-120	2.95	30	
Indeno (1,2,3-cd) pyrene	19.5		0.100	"	20.0		97.5	26-122	0.514	30	
Naphthalene	22.2		0.100	"	20.0		111	38-120	7.48	30	
Phenanthrene	21.3		0.100	"	20.0		106	31-127	0.00	30	
Pyrene	19.1		0.100	"	20.0		95.5	42-125	1.56	30	
<i>Surrogate: p-Terphenyl-d14</i>	<i>31.8</i>			<i>"</i>	<i>50.0</i>		<i>63.6</i>	<i>20-127</i>			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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907.563.9200 fax 907.563.9210

SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/10/04 16:18
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Notes and Definitions

- J Estimated value.
- Q-24 This sample was received at a pH>2 and analyzed outside of the method recommended hold time of seven days for unpreserved or inadequately preserved samples.
- Q-29 This sample was prepared outside of the method established holding time.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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01 December 2004

Andy Dimitriou
SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503
RE: FIA Former Mark Air Facilities

Enclosed are the results of analyses for samples received by the laboratory on 11/04/04 14:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager

CASE NARRATIVE for B4K0219

Client: SLR Alaska
Project Manager: Andy Dimitriou
Project Name: FIA Former Mark Air Facilities
Project Number: 004.0184.00001

1.0 DESCRIPTION OF CASE

Five (5) water samples were submitted for the analysis of:

- Residual Range Organics by AK103
- Gasoline Range Hydrocarbons and BTEX by AK101/EPA 8021B
- Total Metals by EPA 6000/7000 Series Methods
- Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received 4th November 2004 at a temperature of 3.4°C and logged in 6th November 2004.

3.0 PREPARATION AND ANALYSIS

Residual Range Organics by AK103

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Gasoline Range Hydrocarbons and BTEX by AK101/EPA 8021B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Total Metals by EPA 6000/7000 Series Methods

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.



Amar Gill
Project Manager
North Creek Analytical

CHAIN OF CUSTODY REPORT

Work Order #: **B4K0219**

CLIENT: **(SLR) FIA / ADOT + PF**
 REPORT TO: **SLR ALASKA**
 ADDRESS: **3522 International St
 FBRS AK 99709**
 PHONE: **907-455-9005** FAX: **907-455-9015**
 INVOICE TO: **SLR ALASKA**
 P.O. NUMBER: **004.0184.00001**

TURNAROUND REQUEST in Business Days*
 Organic & Inorganic Analyses
 10 7 5 4 3 2 1 <1
 STD. Petroleum Hydrocarbon Analyses
 4 3 2 1 <1
 STD. OTHER _____ Please Specify
 *Turnaround Requests less than standard may incur Rush Charges.

PROJECT NAME: FORMER MARAAR FACILITIES		REQUESTED ANALYSES									
PROJECT NUMBER: 004.0184.00001		BTEX	EPA 8021B	GRO	AK 101	RRO	AK 103	PAH (SIM)	EPA 8210	LEAD	ETA 600/600
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME										
1. MW-6	11/2/04 1200	X	X	X	X	X	X	X	X	X	X
2. MW-10	11.2.04 1300	X	X	X	X	X	X	X	X	X	X
3. MW-8	11.2.04 1500	X	X	X	X	X	X	X	X	X	X
4. MW-12	11.2.04 1100	X	X	X	X	X	X	X	X	X	X
5. TRIP BLANK		X	X	X	X	X	X	X	X	X	X
6.											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											

MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
w	6		01
w	6		02
w	5		03
w	5		04

RELINQUISHED BY: **Sally C Swenson** FIRM: **SLR** DATE: **11.2.04** TIME: **1200**
 RECEIVED BY: **PRAM TONTY** FIRM: **NCA** DATE: **11/4/04** TIME: **1445**
 RELINQUISHED BY: _____ FIRM: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ FIRM: _____ DATE: _____ TIME: _____



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SLR Alaska
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Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	B4K0219-01	Water	11/02/04 12:00	11/04/04 14:45
MW-10	B4K0219-02	Water	11/02/04 13:00	11/04/04 14:45
MW-8	B4K0219-03	Water	11/02/04 15:00	11/04/04 14:45
MW-12	B4K0219-04	Water	11/02/04 16:00	11/04/04 14:45
TRIP BLANK	B4K0219-05	Water	11/02/04 12:00	11/04/04 14:45

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Project: FIA Former Mark Air Facilities
 Project Number: 004.0184.00001
 Project Manager: Andy Dimitriou

Reported:
 12/01/04 19:06

Residual Range Organics (C25-C36) by AK 103
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-6 (B4K0219-01) Water Sampled: 11/02/04 12:00 Received: 11/04/04 14:45										
Residual Range Organics	ND	0.750		mg/l	1	4K09009	11/09/04	11/10/04	AK 103	
Surrogate: Octacosane	88.2 %	50-150				"	"	"	"	
MW-10 (B4K0219-02) Water Sampled: 11/02/04 13:00 Received: 11/04/04 14:45										
Residual Range Organics	ND	0.750		mg/l	1	4K09009	11/09/04	11/10/04	AK 103	
Surrogate: Octacosane	85.6 %	50-150				"	"	"	"	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-8 (B4K0219-03) Water Sampled: 11/02/04 15:00 Received: 11/04/04 14:45										
Gasoline Range Hydrocarbons	2200	50.0		ug/l	1	4K11002	11/11/04	11/12/04	AK 101	
Benzene	18.0	0.200		"	"	"	"	"	"	
Toluene	10.0	0.500		"	"	"	"	"	"	
Ethylbenzene	67.9	0.500		"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>>200 %</i>	<i>60-120</i>				"	"	"	"	<i>S-04</i>
<i>Surrogate: 4-BFB (PID)</i>	<i>147 %</i>	<i>68-140</i>				"	"	"	"	<i>S-04</i>
MW-8 (B4K0219-03RE1) Water Sampled: 11/02/04 15:00 Received: 11/04/04 14:45										
Xylenes (total)	550	5.00		ug/l	5	4K12008	11/12/04	11/12/04	AK 101	
<i>Surrogate: 4-BFB (PID)</i>	<i>110 %</i>	<i>68-140</i>				"	"	"	"	
MW-12 (B4K0219-04) Water Sampled: 11/02/04 16:00 Received: 11/04/04 14:45										
Gasoline Range Hydrocarbons	2020	50.0		ug/l	1	4K11002	11/11/04	11/12/04	AK 101	
Benzene	15.8	0.200		"	"	"	"	"	"	
Toluene	7.89	0.500		"	"	"	"	"	"	
Ethylbenzene	63.8	0.500		"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>>200 %</i>	<i>60-120</i>				"	"	"	"	<i>S-04</i>
<i>Surrogate: 4-BFB (PID)</i>	<i>146 %</i>	<i>68-140</i>				"	"	"	"	<i>S-04</i>
MW-12 (B4K0219-04RE1) Water Sampled: 11/02/04 16:00 Received: 11/04/04 14:45										
Xylenes (total)	498	5.00		ug/l	5	4K12008	11/12/04	11/13/04	AK 101	
<i>Surrogate: 4-BFB (PID)</i>	<i>107 %</i>	<i>68-140</i>				"	"	"	"	
TRIP BLANK (B4K0219-05) Water Sampled: 11/02/04 12:00 Received: 11/04/04 14:45										
Gasoline Range Hydrocarbons	ND	50.0		ug/l	1	4K11002	11/11/04	11/12/04	AK 101	
Benzene	ND	0.200		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>94.6 %</i>	<i>60-120</i>				"	"	"	"	
<i>Surrogate: 4-BFB (PID)</i>	<i>89.0 %</i>	<i>68-140</i>				"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

BTEX by EPA Method 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

MW-6 (B4K0219-01) Water Sampled: 11/02/04 12:00 Received: 11/04/04 14:45

Benzene	ND	0.200		ug/l	1	4K12008	11/12/04	11/12/04	EPA 8021B	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	92.3 %	68-140				"	"	"	"	

MW-10 (B4K0219-02) Water Sampled: 11/02/04 13:00 Received: 11/04/04 14:45

Benzene	ND	0.200		ug/l	1	4K15005	11/15/04	11/15/04	EPA 8021B	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Surrogate: 4-BFB (PID)	88.3 %	68-140				"	"	"	"	

North Creek Analytical - Bothell

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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, AK/USA 99503	Project: FIA Former Mark Air Facilities Project Number: 004.0184.00001 Project Manager: Andy Dimitriou	Reported: 12/01/04 19:06
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**Total Metals by EPA 6000/7000 Series Methods
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-6 (B4K0219-01) Water Sampled: 11/02/04 12:00 Received: 11/04/04 14:45										
Lead	0.00354	0.00100		mg/l	1	4K06009	11/06/04	11/12/04	EPA 6020	
MW-10 (B4K0219-02) Water Sampled: 11/02/04 13:00 Received: 11/04/04 14:45										
Lead	0.00364	0.00100		mg/l	1	4K06009	11/06/04	11/12/04	EPA 6020	

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-8 (B4K0219-03) Water Sampled: 11/02/04 15:00 Received: 11/04/04 14:45										
1-Methylnaphthalene	41.6	0.500		ug/l	5	4K09010	11/09/04	11/16/04	8270C-SIM	
2-Methylnaphthalene	30.5	0.500		"	"	"	"	"	"	
Acenaphthene	ND	0.500		"	"	"	"	"	"	
Acenaphthylene	ND	0.500		"	"	"	"	"	"	
Anthracene	ND	0.500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.500		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.500		"	"	"	"	"	"	
Chrysene	ND	0.500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.500		"	"	"	"	"	"	
Fluoranthene	ND	0.500		"	"	"	"	"	"	
Fluorene	0.602	0.500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.500		"	"	"	"	"	"	
Naphthalene	86.2	0.500		"	"	"	"	"	"	
Phenanthrene	ND	0.500		"	"	"	"	"	"	
Pyrene	ND	0.500		"	"	"	"	"	"	

Surrogate: p-Terphenyl-d14 58.8 % 20-127 " " " "

MW-12 (B4K0219-04) Water Sampled: 11/02/04 16:00 Received: 11/04/04 14:45										
1-Methylnaphthalene	33.0	0.200		ug/l	2	4K09010	11/09/04	11/16/04	8270C-SIM	
2-Methylnaphthalene	22.5	0.200		"	"	"	"	"	"	
Acenaphthene	ND	0.200		"	"	"	"	"	"	
Acenaphthylene	ND	0.200		"	"	"	"	"	"	
Anthracene	ND	0.200		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.200		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.200		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	0.200		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.200		"	"	"	"	"	"	
Chrysene	ND	0.200		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.200		"	"	"	"	"	"	
Fluoranthene	ND	0.200		"	"	"	"	"	"	
Fluorene	0.482	0.200		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200		"	"	"	"	"	"	
Naphthalene	68.5	0.200		"	"	"	"	"	"	
Phenanthrene	ND	0.200		"	"	"	"	"	"	

North Creek Analytical - Bothell

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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

MW-12 (B4K0219-04) Water **Sampled: 11/02/04 16:00** **Received: 11/04/04 14:45**

Pyrene	ND	0.200		ug/l	2	4K09010	11/09/04	11/16/04	8270C-SIM	
Surrogate: <i>p</i> -Terphenyl-d14	66.0 %	20-127				"	"	"	"	

North Creek Analytical - Bothell

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**Residual Range Organics (C25-C36) by AK 103 - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K09009: Prepared 11/09/04 Using EPA 3520C										
Blank (4K09009-BLK1)										
Residual Range Organics	ND	0.750	mg/l							
Surrogate: Octacosane	0.205		"	0.240		85.4	50-150			
LCS (4K09009-BS2)										
Residual Range Organics	1.60	0.750	mg/l	2.00		80.0	60-120			
Surrogate: Octacosane	0.194		"	0.240		80.8	50-150			
LCS Dup (4K09009-BSD2)										
Residual Range Organics	1.90	0.750	mg/l	2.00		95.0	60-120	17.1	20	
Surrogate: Octacosane	0.209		"	0.240		87.1	50-150			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K11002: Prepared 11/11/04 Using EPA 5030B (P/T)

Blank (4K11002-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.200	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	47.4		"	48.0		98.8	60-120			
Surrogate: 4-BFB (PID)	44.8		"	48.0		93.3	68-140			

LCS (4K11002-BS1)

Gasoline Range Hydrocarbons	565	50.0	ug/l	502		113	60-120			
Benzene	6.17	0.200	"	6.21		99.4	80-120			
Toluene	34.4	0.500	"	34.9		98.6	80-120			
Ethylbenzene	9.08	0.500	"	8.38		108	80-120			
Xylenes (total)	44.4	1.00	"	40.6		109	80-120			
Surrogate: 4-BFB (FID)	55.7		"	48.0		116	60-120			
Surrogate: 4-BFB (PID)	45.9		"	48.0		95.6	68-140			

LCS Dup (4K11002-BSD1)

Gasoline Range Hydrocarbons	547	50.0	ug/l	502		109	60-120	3.24	20	
Benzene	6.14	0.200	"	6.21		98.9	80-120	0.487	25	
Toluene	34.3	0.500	"	34.9		98.3	80-120	0.291	25	
Ethylbenzene	8.96	0.500	"	8.38		107	80-120	1.33	25	
Xylenes (total)	43.9	1.00	"	40.6		108	80-120	1.13	25	
Surrogate: 4-BFB (FID)	51.8		"	48.0		108	60-120			
Surrogate: 4-BFB (PID)	46.1		"	48.0		96.0	68-140			

Matrix Spike (4K11002-MS1)

Source: B4J1036-11

Gasoline Range Hydrocarbons	608	50.0	ug/l	502	141	93.0	60-120			
Benzene	6.84	0.200	"	6.21	0.753	98.0	46-130			
Toluene	32.1	0.500	"	34.9	0.232	91.3	60-124			
Ethylbenzene	8.69	0.500	"	8.38	ND	104	56-141			
Xylenes (total)	42.0	1.00	"	40.6	1.06	101	66-132			
Surrogate: 4-BFB (FID)	55.4		"	48.0		115	60-120			
Surrogate: 4-BFB (PID)	47.3		"	48.0		98.5	68-140			

North Creek Analytical - Bothell

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

**Gasoline Hydrocarbons (n-Hexane to <n-Decane) and BTEX by AK101/EPA 8021B - Quality Control
North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K11002: Prepared 11/11/04 Using EPA 5030B (P/T)

Matrix Spike Dup (4K11002-MSD1)

Source: B4J1036-11

Gasoline Range Hydrocarbons	551	50.0	ug/l	502	141	81.7	60-120	9.84	20	
Benzene	6.19	0.200	"	6.21	0.753	87.6	46-130	9.98	40	
Toluene	29.4	0.500	"	34.9	0.232	83.6	60-124	8.78	40	
Ethylbenzene	7.78	0.500	"	8.38	ND	92.8	56-141	11.1	40	
Xylenes (total)	38.5	1.00	"	40.6	1.06	92.2	66-132	8.70	40	
Surrogate: 4-BFB (FID)	56.4		"	48.0		118	60-120			
Surrogate: 4-BFB (PID)	48.3		"	48.0		101	68-140			

Batch 4K12008: Prepared 11/12/04 Using EPA 5030B (P/T)

Blank (4K12008-BLK1)

Xylenes (total)	ND	1.00	ug/l							
Surrogate: 4-BFB (PID)	42.6		"	48.0		88.8	68-140			

LCS (4K12008-BS1)

Xylenes (total)	40.3	1.00	ug/l	40.6		99.3	80-120			
Surrogate: 4-BFB (PID)	46.4		"	48.0		96.7	68-140			

LCS Dup (4K12008-BSD1)

Xylenes (total)	42.3	1.00	ug/l	40.6		104	80-120	4.84	25	
Surrogate: 4-BFB (PID)	46.5		"	48.0		96.9	68-140			

Matrix Spike (4K12008-MS1)

Source: B4K0223-01

Xylenes (total)	45.8	1.00	ug/l	40.6	ND	113	66-132			
Surrogate: 4-BFB (PID)	46.9		"	48.0		97.7	68-140			

Matrix Spike Dup (4K12008-MSD1)

Source: B4K0223-01

Xylenes (total)	46.3	1.00	ug/l	40.6	ND	114	66-132	1.09	40	
Surrogate: 4-BFB (PID)	46.6		"	48.0		97.1	68-140			

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

BTEX by EPA Method 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K12008: Prepared 11/12/04 Using EPA 5030B (P/T)

Blank (4K12008-BLK1)

Benzene	ND	0.200	ug/l							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
<i>Surrogate: 4-BFB (PID)</i>	42.6		"	48.0		88.8	68-140			

LCS (4K12008-BS1)

Benzene	5.64	0.200	ug/l	6.21		90.8	80-120			
Toluene	31.4	0.500	"	34.9		90.0	80-120			
Ethylbenzene	8.26	0.500	"	8.38		98.6	80-120			
Xylenes (total)	40.3	1.00	"	40.6		99.3	80-120			
<i>Surrogate: 4-BFB (PID)</i>	46.4		"	48.0		96.7	68-140			

LCS Dup (4K12008-BSD1)

Benzene	5.91	0.200	ug/l	6.21	95.2	80-120	4.68	25		
Toluene	32.9	0.500	"	34.9	94.3	80-120	4.67	25		
Ethylbenzene	8.63	0.500	"	8.38	103	80-120	4.38	25		
Xylenes (total)	42.3	1.00	"	40.6	104	80-120	4.84	25		
<i>Surrogate: 4-BFB (PID)</i>	46.5		"	48.0	96.9	68-140				

Matrix Spike (4K12008-MS1)

Source: B4K0223-01

Benzene	6.43	0.200	ug/l	6.21	ND	104	46-130			
Toluene	35.9	0.500	"	34.9	0.112	103	60-124			
Ethylbenzene	9.33	0.500	"	8.38	ND	111	56-141			
Xylenes (total)	45.8	1.00	"	40.6	ND	113	66-132			
<i>Surrogate: 4-BFB (PID)</i>	46.9		"	48.0		97.7	68-140			

Matrix Spike Dup (4K12008-MSD1)

Source: B4K0223-01

Benzene	6.54	0.200	ug/l	6.21	ND	105	46-130	1.70	40	
Toluene	36.5	0.500	"	34.9	0.112	104	60-124	1.66	40	
Ethylbenzene	9.40	0.500	"	8.38	ND	112	56-141	0.747	40	
Xylenes (total)	46.3	1.00	"	40.6	ND	114	66-132	1.09	40	
<i>Surrogate: 4-BFB (PID)</i>	46.6		"	48.0		97.1	68-140			

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Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

BTEX by EPA Method 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K15005: Prepared 11/15/04 Using EPA 5030B (P/T)

Blank (4K15005-BLK1)

Benzene	ND	0.200	ug/l							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (PID)	41.8		"	48.0		87.1	68-140			

LCS (4K15005-BS1)

Benzene	6.30	0.200	ug/l	6.21		101	80-120			
Toluene	33.3	0.500	"	34.9		95.4	80-120			
Ethylbenzene	9.21	0.500	"	8.38		110	80-120			
Xylenes (total)	44.4	1.00	"	40.6		109	80-120			
Surrogate: 4-BFB (PID)	46.4		"	48.0		96.7	68-140			

LCS Dup (4K15005-BSD1)

Benzene	6.46	0.200	ug/l	6.21	104	80-120	2.51	25		
Toluene	33.8	0.500	"	34.9	96.8	80-120	1.49	25		
Ethylbenzene	9.31	0.500	"	8.38	111	80-120	1.08	25		
Xylenes (total)	44.9	1.00	"	40.6	111	80-120	1.12	25		
Surrogate: 4-BFB (PID)	46.7		"	48.0	97.3	68-140				

Matrix Spike (4K15005-MS1)

Source: B4K0193-02

Benzene	6.80	0.200	ug/l	6.21	ND	110	46-130			
Toluene	35.0	0.500	"	34.9	ND	100	60-124			
Ethylbenzene	9.44	0.500	"	8.38	ND	113	56-141			
Xylenes (total)	46.1	1.00	"	40.6	ND	114	66-132			
Surrogate: 4-BFB (PID)	46.0		"	48.0		95.8	68-140			

Matrix Spike Dup (4K15005-MSD1)

Source: B4K0193-02

Benzene	6.45	0.200	ug/l	6.21	ND	104	46-130	5.28	40	
Toluene	35.4	0.500	"	34.9	ND	101	60-124	1.14	40	
Ethylbenzene	9.20	0.500	"	8.38	ND	110	56-141	2.58	40	
Xylenes (total)	45.1	1.00	"	40.6	ND	111	66-132	2.19	40	
Surrogate: 4-BFB (PID)	45.9		"	48.0		95.6	68-140			

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, AK/USA 99503

Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4K06009: Prepared 11/06/04 Using EPA 3020A										
Blank (4K06009-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (4K06009-BS1)										
Lead	0.0802	0.00100	mg/l	0.0800		100	80-120			
LCS Dup (4K06009-BSD1)										
Lead	0.0773	0.00100	mg/l	0.0800		96.6	80-120	3.68	20	
Matrix Spike (4K06009-MS1) Source: B4K0150-02										
Lead	0.0815	0.00100	mg/l	0.0800	0.000630	101	78-125			
Matrix Spike Dup (4K06009-MSD1) Source: B4K0150-02										
Lead	0.0796	0.00100	mg/l	0.0800	0.000630	98.7	78-125	2.36	20	
Post Spike (4K06009-PS1) Source: B4K0150-02										
Lead	0.0973		ug/ml	0.0995	0.000630	97.2	75-125			

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Project: FIA Former Mark Air Facilities
Project Number: 004.0184.00001
Project Manager: Andy Dimitriou

Reported:
12/01/04 19:06

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K09010: Prepared 11/09/04 Using EPA 3520C

Blank (4K09010-BLK1)

1-Methylnaphthalene	ND	0.100	ug/l							
2-Methylnaphthalene	ND	0.100	"							
Acenaphthene	ND	0.100	"							
Acenaphthylene	ND	0.100	"							
Anthracene	ND	0.100	"							
Benzo (a) anthracene	ND	0.100	"							
Benzo (a) pyrene	ND	0.100	"							
Benzo (b) fluoranthene	ND	0.100	"							
Benzo (ghi) perylene	ND	0.100	"							
Benzo (k) fluoranthene	ND	0.100	"							
Chrysene	ND	0.100	"							
Dibenz (a,h) anthracene	ND	0.100	"							
Fluoranthene	ND	0.100	"							
Fluorene	ND	0.100	"							
Indeno (1,2,3-cd) pyrene	ND	0.100	"							
Naphthalene	ND	0.100	"							
Phenanthrene	ND	0.100	"							
Pyrene	ND	0.100	"							
<i>Surrogate: p-Terphenyl-d14</i>	<i>56.1</i>		<i>"</i>	<i>50.0</i>		<i>112</i>	<i>20-127</i>			

LCS (4K09010-BS2)

1-Methylnaphthalene	13.8	0.100	ug/l	20.0		69.0	41-120			
2-Methylnaphthalene	14.2	0.100	"	20.0		71.0	42-120			
Acenaphthene	17.7	0.100	"	20.0		88.5	34-120			
Acenaphthylene	19.2	0.100	"	20.0		96.0	36-120			
Anthracene	23.2	0.100	"	20.0		116	35-138			
Benzo (a) anthracene	19.6	0.100	"	20.0		98.0	41-121			
Benzo (a) pyrene	23.4	0.100	"	20.0		117	33-125			
Benzo (b) fluoranthene	25.5	0.100	"	20.0		128	35-133			
Benzo (ghi) perylene	17.2	0.100	"	20.0		86.0	25-121			
Benzo (k) fluoranthene	21.1	0.100	"	20.0		106	28-127			
Chrysene	21.1	0.100	"	20.0		106	41-120			
Dibenz (a,h) anthracene	16.4	0.100	"	20.0		82.0	24-120			
Fluoranthene	19.7	0.100	"	20.0		98.5	33-137			
Fluorene	19.7	0.100	"	20.0		98.5	42-120			

North Creek Analytical - Bothell

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12/01/04 19:06

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K09010: Prepared 11/09/04 Using EPA 3520C

LCS (4K09010-BS2)

Indeno (1,2,3-cd) pyrene	16.0	0.100	ug/l	20.0		80.0	26-122			
Naphthalene	14.1	0.100	"	20.0		70.5	38-120			
Phenanthrene	19.7	0.100	"	20.0		98.5	31-127			
Pyrene	23.0	0.100	"	20.0		115	42-125			
<i>Surrogate: p-Terphenyl-d14</i>	53.8		"	50.0		108	20-127			

LCS Dup (4K09010-BSD2)

1-Methylnaphthalene	12.6	0.100	ug/l	20.0		63.0	41-120	9.09	30	
2-Methylnaphthalene	12.7	0.100	"	20.0		63.5	42-120	11.2	30	
Acenaphthene	15.4	0.100	"	20.0		77.0	34-120	13.9	30	
Acenaphthylene	16.8	0.100	"	20.0		84.0	36-120	13.3	30	
Anthracene	19.4	0.100	"	20.0		97.0	35-138	17.8	30	
Benzo (a) anthracene	15.8	0.100	"	20.0		79.0	41-121	21.5	30	
Benzo (a) pyrene	18.6	0.100	"	20.0		93.0	33-125	22.9	30	
Benzo (b) fluoranthene	20.5	0.100	"	20.0		102	35-133	21.7	30	
Benzo (ghi) perylene	15.0	0.100	"	20.0		75.0	25-121	13.7	30	
Benzo (k) fluoranthene	15.8	0.100	"	20.0		79.0	28-127	28.7	30	
Chrysene	17.7	0.100	"	20.0		88.5	41-120	17.5	30	
Dibenz (a,h) anthracene	13.5	0.100	"	20.0		67.5	24-120	19.4	30	
Fluoranthene	15.9	0.100	"	20.0		79.5	33-137	21.3	30	
Fluorene	16.2	0.100	"	20.0		81.0	42-120	19.5	30	
Indeno (1,2,3-cd) pyrene	13.4	0.100	"	20.0		67.0	26-122	17.7	30	
Naphthalene	12.9	0.100	"	20.0		64.5	38-120	8.89	30	
Phenanthrene	17.0	0.100	"	20.0		85.0	31-127	14.7	30	
Pyrene	20.2	0.100	"	20.0		101	42-125	13.0	30	
<i>Surrogate: p-Terphenyl-d14</i>	46.2		"	50.0		92.4	20-127			

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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APPENDIX B
PHOTOGRAPHIC LOG

APPENDIX C

SOIL BORING LOGS, MONITORING WELL AND WELL POINT COMPLETION DETAILS, AND MONITORING WELL SAMPLING DATA SHEETS

APPENDIX D

FIELD NOTES

APPENDIX E
WELL SURVEY DATA

APPENDIX F

IDW INVENTORY AND DISPOSITION