

August 31, 2005

Alaska Department of Transportation and Public Facilities
2301 Peger Road
Fairbanks, Alaska 99709

Attn: Mr. Darren Mulkey

**RE: UNDERGROUND STORAGE TANK CLOSURE ASSESSMENT, ADOT&PF
EAST FORK MAINTENANCE STATION, MILE 185 PARKS HIGHWAY,
ALASKA**

Shannon & Wilson, Inc., is pleased to present this report on the closure/removal of two 1,000-gallon, non-regulated, heating oil underground storage tanks (USTs) at the Alaska Department of Transportation and Public Facilities (ADOT&PF) East Fork Maintenance Station located at Mile 185 Parks Highway, Alaska. We conducted the UST closure site assessments in general accordance with the Alaska Department of Environmental Conservation (ADEC) UST Regulations (18 AAC 78) and the ADEC UST Procedures Manual. Our site activities were performed in general accordance with our LUST Sites Cleanup Management Plan dated September 2003 and the ADOT&PF Statewide Hazardous Waste and Environmental Services Term Agreement No. P22011, authorized by Mr. Gordon Keith on September 9, 2003.

SCOPE OF WORK

The objective of this work was to close the heating-oil tanks by removal and determine if the site had been affected by fuel hydrocarbons from the tanks. To meet this objective, Shannon & Wilson:

- Observed the site, tank removal activities, and the condition of the tanks in general accordance with ADEC requirements for tank closure;
- Excavated five test pits to determine the extent of contamination in the area of the USTs;
- Assessed the subsurface conditions and field-screened excavated soils;

- Collected representative soil samples from the excavation and the contaminated soil stockpile for analysis by an ADEC-approved laboratory; and
- Prepared this UST closure site assessment report summarizing the results of the field observations, analytical results, and our conclusions.

SITE DESCRIPTION

The ADOT&PF East Fork Maintenance Station (ADEC UST Facility No. 1549) is located at Mile 185 of the Parks Highway, south of Cantwell, Alaska. The ADOT&PF has discontinued use of this maintenance station and removed the shop buildings and residence trailers.

The UST were registered as ADEC Tanks #1 and #5 at the facility, however they were not regulated as they only supplied heating oil to the southern shop building. The tanks were last used in 2004. ADOT&PF personnel removed the fuel from the tanks prior to our arrival at the site.

FIELD METHODS AND OBSERVATIONS

Shannon & Wilson geologist, Mark Lockwood, conducted a visual assessment of the site prior to closure activities on July 29, 2005. Tank #1 was located on the southwest corner of the southern shop and Tank #5 was located on the northeast corner of the southern shop, as shown in Figure 1. Visible piping consisted of a fill pipe and a vent pipe at the building walls for each UST. The ground surface in the area of the tanks was gravel.

Tank removal activities occurred on July 29, 2005. Mr. Lockwood performed field screening and analytical sample collection. TLC General, Inc., of Fairbanks, Alaska, performed UST closure work. Photo documentation of closure activities is attached.

During the excavation activities a PE Photovac 2020 photoionization detector (PID) was used to measure the relative concentration of volatile organic compounds in the soil. The PID was calibrated prior to use at the work site using a 100 parts per million (ppm) isobutylene-in-air standard calibration gas. Screening samples were collected from the site soils and placed into resealable plastic bags, each about half full. The samples were then allowed to warm to room

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temperature, and headspace readings were taken within one hour of sampling. The plastic bag was shaken for about 15 seconds; the seal of the bag was then opened to allow the PID probe to enter the air space above the soil. The maximum ionization response was recorded as the PID drew vapor from the sample bag, providing a semiquantitative indication of the concentration of volatile compounds in the soil.

Test Pits

Tank removal activities began with digging test pits adjacent to USTs at the locations shown in Figure 1. The test pits were excavated to the water table, which ranged in depth from 6 to 7 feet below the ground surface (bgs). PID readings in the test pits ranged from 1 part per million (ppm) to 18 ppm. Elevated readings were detected in the surface samples (0.5 feet bgs) and in the samples collected at the groundwater interface indicating that contamination associated with the USTs was not widespread and is likely restricted to the zone of groundwater fluctuation. Soil in the test pit excavations were moist, gray, sandy, coarse gravel.

Tank #1

Excavation began at Tank #1 on the north end of the UST. The tank was oriented parallel to the west wall of the shop building. The top of the tank was about 1.5 feet below the ground surface. The fill and vent pipes were routed to the wall of the building. Soil with a hydrocarbon odor was noted at the surface around the fill pipe and below the fill and vent pipe elbows. PID readings ranged from about 75 ppm to 90 ppm in the soil above the tank. Elevated PID readings were obtained along the west side of the tank from the surface down to the water table; elsewhere in the excavation elevated PID readings were restricted to the zone about 6 feet below the ground surface.

Approximately 25 cubic yards of contaminated soil was removed from the Tank #1 excavation. Groundwater was encountered at the base of the excavation at a depth of about 6 feet. As indicated by the field screening result in test pits TP-1, TP-2, and TP-3 the extent of contamination is limited to the zone of groundwater fluctuation. Removal of additional contaminated soil at the limits of the excavation would require the removal of about five feet of clean material.

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Following its removal, the condition of the UST and associated piping was observed to evaluate the potential for system leaks and spills. The underground piping was in good condition, however the fill and vent elbow joints may have been leaking when the tank was overfilled and fuel was allowed to stand in the pipes. The tank was rusty but in fair condition, with no apparent holes or damage. The single-walled tank was about 5.3 feet in diameter and 6.08 feet long.

Analytical samples were collected as described in the following section. Two locations were selected for sample collection and analytical testing. Samples were collected under the tank at the fill and vent ends at a depth of 6.0 feet. Sample *1192EF-072905-08* was collected under the tank at the north/fill end. Sample *1192EF-072905-09* was collected under the south/vent end of the UST. The soil samples were collected within the zone of groundwater fluctuation. Sample locations are illustrated in Figure 1.

The final size of the excavation was approximately 15 by 15 feet and 7 feet deep. Following sample collection, the excavation was backfilled with material previously stockpiled on-site. TLC General, Inc., took possession of the tank for disposal; a letter of disposition is attached.

Tank #5

Excavation began at Tank #5 on the north side of the UST. The tank was oriented perpendicular to the east wall of the shop building. The top of the tank was about 1.5 feet below the ground surface. The fill pipe was directly atop the west end of the tank; the vent pipe was routed to the wall of the building. Soil with a hydrocarbon odor was noted at the surface around the fill pipe and below the vent pipe elbow. PID readings ranged from about 90 ppm to 120 ppm in the soil above the tank. Elevated PID readings were obtained along the south side of the tank from surface down to the water table; elsewhere in the excavation elevated PID readings were restricted to the zone between 6 and 7 feet below the ground surface.

Approximately 25 cubic yards of contaminated soil was removed from the Tank #5 excavation. Groundwater was encountered at the base of the excavation at a depth of about 7 feet. As indicated by the field screening result in test pits TP-4 and TP-5 the extent of contamination is

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limited to the zone of groundwater fluctuation. Removal of additional contaminated soil at the limits of the excavation would require the removal of about six feet of clean material.

Following its removal, the condition of the UST and associated piping was observed to evaluate the potential for system leaks and spills. The underground piping was in good condition; however, the vent elbow joints may have been leaking when the tank was overfilled and fuel was allowed to stand in the vent stack. The tank was rusty but in fair condition, with no apparent holes or damage. The single-walled tank was about 5.3 feet in diameter and 6.08 feet long.

Analytical samples were collected as described in the following section. Two locations were selected for sample collection and analytical testing. Samples were collected under the tank at the fill and vent ends at a depth of 7.0 feet. Sample *1192EF-072905-06* was collected under the tank at the west/fill end. Sample *1192EF-072905-07* was collected under the east/vent end of the UST. The soil samples were collected within the zone of groundwater fluctuation. Sample locations are illustrated in Figure 1.

The final size of the excavation was approximately 15 by 15 feet and 7 feet deep. Following sample collection, the excavation was backfilled with material previously stockpiled on-site. TLC General, Inc., took possession of the tank for disposal; a letter of disposition is attached.

Stockpile

The contaminated soil from the UST excavation (about 50 cubic yards) was stockpiled and covered with a 10-mil liner on-site. Six field screening samples were collected from the stockpile; two soil samples (*1192EF-072905-10* and *1192EF-072905-11*) were collected from the locations with the highest field screening results.

ANALYTICAL SAMPLE COLLECTION AND HANDLING

The analytical soil samples were collected from undisturbed soil and placed into the appropriate laboratory-provided jars. The portion of the analytical sample analyzed for GRO and benzene, toluene, ethylbenzene, and xylenes (BTEX) was collected using the ADEC

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sampling procedure for Alaska Method AK 101. This method specifies that 25 grams of soil be placed into a laboratory-supplied 4-ounce jar that has been pre-weighed; 25 milliliters (ml) of reagent grade methanol are then added to completely submerge the soil. The methanol extracts the volatile petroleum hydrocarbons from the soil at the time of sampling, reducing the possible loss of volatile constituents prior to sample analysis. The portion of the sample collected for diesel range organics (DRO) was placed in a 8-ounce glass jar, filled completely without headspace.

The soil samples collected from the tank excavations and stockpile were placed in a cooler maintained at approximately 4 degrees Centigrade and submitted to SGS in Fairbanks using chain-of-custody documentation. The samples were analyzed for GRO and DRO by Alaska Method AK-101 and AK-102 and BTEX by EPA Method 8021B.

ANALYTICAL RESULTS

Soil sample results are summarized in Table 1. The laboratory analytical results are included as an attachment to this report.

Tank #1

Soil sample collected from the zone of groundwater fluctuation in test pits TP-1, TP-2, and TP-3 contained DRO ranging from 261 to 865 mg/kg; benzene and toluene were not reported above their laboratory practical quantitation limit (PQL); ethylbenzene ranged from below the PQL to 0.0546 mg/kg; p&m-xylenes ranged from 0.0351 to 0.427 mg/kg; and o-xylenes ranged from below the PQL to 0.156 mg/kg. The samples collected under Tank #1 contained DRO ranging from 1,000 to 2,080 mg/kg; benzene was not reported above its PQL; GRO ranged from 8.230 to 44.600 mg/kg; toluene was detected at a maximum of 0.0330 mg/kg; ethylbenzene was detected at a maximum of 0.0755 mg/kg; p&m-xylenes were detected at a maximum of 0.464 mg/kg; and o-xylene was detected at a maximum of 0.187 mg/kg.

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Tank #5

Soil samples collected from the zone of groundwater fluctuation in TP-4 and TP-5 contained DRO ranging from less than 20.6 to 486 mg/kg; benzene, toluene, and o-xylene were not reported above their laboratory practical quantitation limit (PQL); GRO ranged from below the PQL to 10.800 mg/kg; ethylbenzene ranged from below the PQL to 0.0608 mg/kg; and p&m-xylenes ranged from below the PQL to 0.104 mg/kg. The samples collected under Tank #5 contained DRO ranging from 4,310 to 4,420 mg/kg; benzene was not reported above its PQL; GRO ranged from 40.900 to 43.500 mg/kg; toluene was detected at a maximum of 0.0382 mg/kg; ethylbenzene was detected at a maximum of 0.247 mg/kg; p&m-xylenes were detected at a maximum of 0.463 mg/kg; and o-xylene was detected at a maximum of 0.110 mg/kg.

STOCKPILE

DRO was reported in both of the samples from the soil stockpile at 1,510 and 1,870 mg/kg; GRO was reported at 33.800 and 97.100 mg/kg; benzene was reported at 0.00868 and 0.0151 mg/kg; toluene at 0.0713 and 0.0998 mg/kg; ethylbenzene at 0.0619 and 0.354 mg/kg; p&m-xylenes at 0.302 and 1.320 mg/kg; and o-xylenes at 0.126 and 0.540 mg/kg.

QUALITY ASSURANCE AND QUALITY CONTROL

Quality Assurance (QA) and Quality Control (QC) procedures are used to see that sampling, documentation, and laboratory data are effective and do not detract from the quality or reliability of the results. QC for this work generally followed the procedures of the ADEC *UST Procedures Manual* with the exception that no duplicate was collected and no trip blank accompanied the the samples. The samples were extracted and analyzed within the required holding times. Laboratory QA included running method blanks, laboratory control spikes, matrix spikes, assessing surrogate recoveries in each sample analyzed, and other internal QA programs as required for approval by the State of Alaska for analytical laboratories.

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As presented in the laboratory report's QC summary sheet, BFB surrogate recoveries for several samples were biased high. The laboratory chemist concluded this was likely due to matrix interference.

The temperature of the sample cooler was acceptable, and all samples were analyzed within the holding time. Laboratory PQLs were less than the corresponding soil cleanup levels (described below). The data are of acceptable quality for the purposes of this study.

DISCUSSION

Soil sample analytical results were evaluated with respect to the ADEC soil cleanup levels. The ADEC has established cleanup criteria for soils that are protective of groundwater resources, human health, and the environment. Soil cleanup levels are established under 18 AAC 75.340 and 18 AAC 75.341. Method One uses site-specific information to determine a cleanup level. Method Two takes into account various possible environmental exposure pathways for contaminants at the site. Method Two migration to groundwater (MTG) cleanup levels for the "under 40-inch" mean annual precipitation zone are presented in the attached Table 1 for comparison.

Soil samples collected from the base of the Tank #1 and Tank #5 excavations and test pits contained DRO exceeding the ADEC migration to groundwater cleanup level; no other analytes exceeded their ADEC cleanup levels. The remaining contamination in the area of Tank #1 and Tank #5 appeared to be limited to the groundwater interface. Excavation of contaminated soil from within this narrow zone was impractical.

In May 2001, Shannon & Wilson installed monitoring wells MW1, MW-2, MW-4, and MW-5 at the maintenance station. The locations of the wells are shown in Figure 2. Groundwater at the East Fork Maintenance Station was encountered on top of an impermeable silty gravel layer at a depth of 6 to 9 feet below the ground surface (bgs). It appears the groundwater encountered is a perched system and is likely not connected to the aquifer previously used as a drinking water source. Our most recent and historical sample results are presented in our letter *Northern Region LUST Site Cleanup, ADOT&PF East Fork Maintenance Station, Mile 185*

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Parks Highway, Alaska, ADEC UST Facility No. 1549 dated August 24, 2005. Historical results indicate DRO has been detected in several of the wells since 2001; DRO exceeded the ADEC cleanup level in MW-4 in September 2002 and in MW-5 in August 2005. No other analytes have exceeded their cleanup levels.

The 50 cubic yards of soil currently stockpiled at the site contained DRO up to 1,870 mg/kg; no other analytes exceeded their ADEC migration to groundwater cleanup levels. The DRO concentration does not exceed the ADEC ingestion/inhalation cleanup levels. We understand ADOT&PF would like to spread this soil within the Cantwell Maintenance Station in a non-environmentally sensitive area.

CONCLUSIONS AND RECOMMENDATIONS

Shannon & Wilson characterized the type and level of contaminants in the soil associated with two non-regulated 1,000-gallon heating-oil USTs at the ADOT&PF East Fork Maintenance Station. This report presents our professional judgement as to the conditions at the USTs, based on information obtained from observations and sampling. Based on our observations and soil sample analytical results, Shannon & Wilson presents the following conclusions:

- DRO is present in the soil in area of the former heating-oil USTs in concentrations exceeding the ADEC MTG cleanup level. The extent of the contamination appeared to be limited to the zone of groundwater fluctuation and was removed to the extent practicable.
- Soil removed from the tank excavations and placed in the temporary stockpile does not exceed ADEC ingestion/inhalation soil cleanup levels.

Based on our conclusions we recommend that ADOT&PF continue to monitor the groundwater at the facility to determine contaminant trends. The stockpiled soil could be spread in a non-environmentally sensitive location such as a road bed or within the Cantwell Maintenance Station.

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LIMITATIONS

This letter report presents conclusions based on limited sampling and analysis from two non-regulated 1,000-gallon heating-oil USTs, and should not be construed as a comprehensive study of the soil quality at the site. Sampling was intended to evaluate the presence or absence of petroleum hydrocarbon contamination at the location selected. Although our intention was to sample the area anticipated to have the highest potential for contamination, the levels observed may not be the greatest levels present at the site. It was also not the intent of our exploration to detect the presence of contaminants other than those for which laboratory analyses were performed. No conclusions can be drawn on the presence or absence of other contaminants. In addition, our services were not intended to include any geotechnical assessment of the property.

The data presented in this letter report should be considered representative of the time of our site observations and sample collection. Changes in the observed site conditions can occur with the passage of time. In addition, changes in government codes, regulations, or laws may occur. Due to such changes, or others beyond our control, our observations and conclusions regarding this site may need to be revised. In addition, there can be no assurance that a regulatory agency or its staff will reach the same conclusions as Shannon & Wilson.

This report was prepared for the exclusive use of ADOT&PF to meet closure requirements for the 1,000-gallon heating-oil USTs. If it is made available to others, it should be for information on factual data only and not as a warranty of conditions described in this report. The interpretations and recommendations are based solely upon information available to Shannon & Wilson at the time of this report.

If you have any questions please do not hesitate to call.

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SHANNON & WILSON, INC.

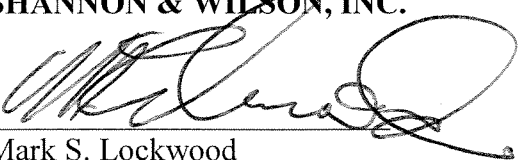
The data presented in this letter report should be considered representative of the time of our site observations and sample collection. Changes in the observed site conditions can occur with the passage of time. In addition, changes in government codes, regulations, or laws may occur. Due to such changes, or others beyond our control, our observations and conclusions regarding this site may need to be revised. In addition, there can be no assurance that a regulatory agency or its staff will reach the same conclusions as Shannon & Wilson.

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If you have any questions please do not hesitate to call.

Sincerely,

SHANNON & WILSON, INC.



Mark S. Lockwood
Principal Geologist



Reviewed by: David M. McDowell
Vice President

Enclosures: Table 1 Summary of Soil Sample Results
Figure 1 Soil Sample Locations
Figure 2 Monitoring Well Locations
SGS Laboratory Data Report
TLC General, Inc. "Disposition of Decommissioned Heating Oil Tanks"

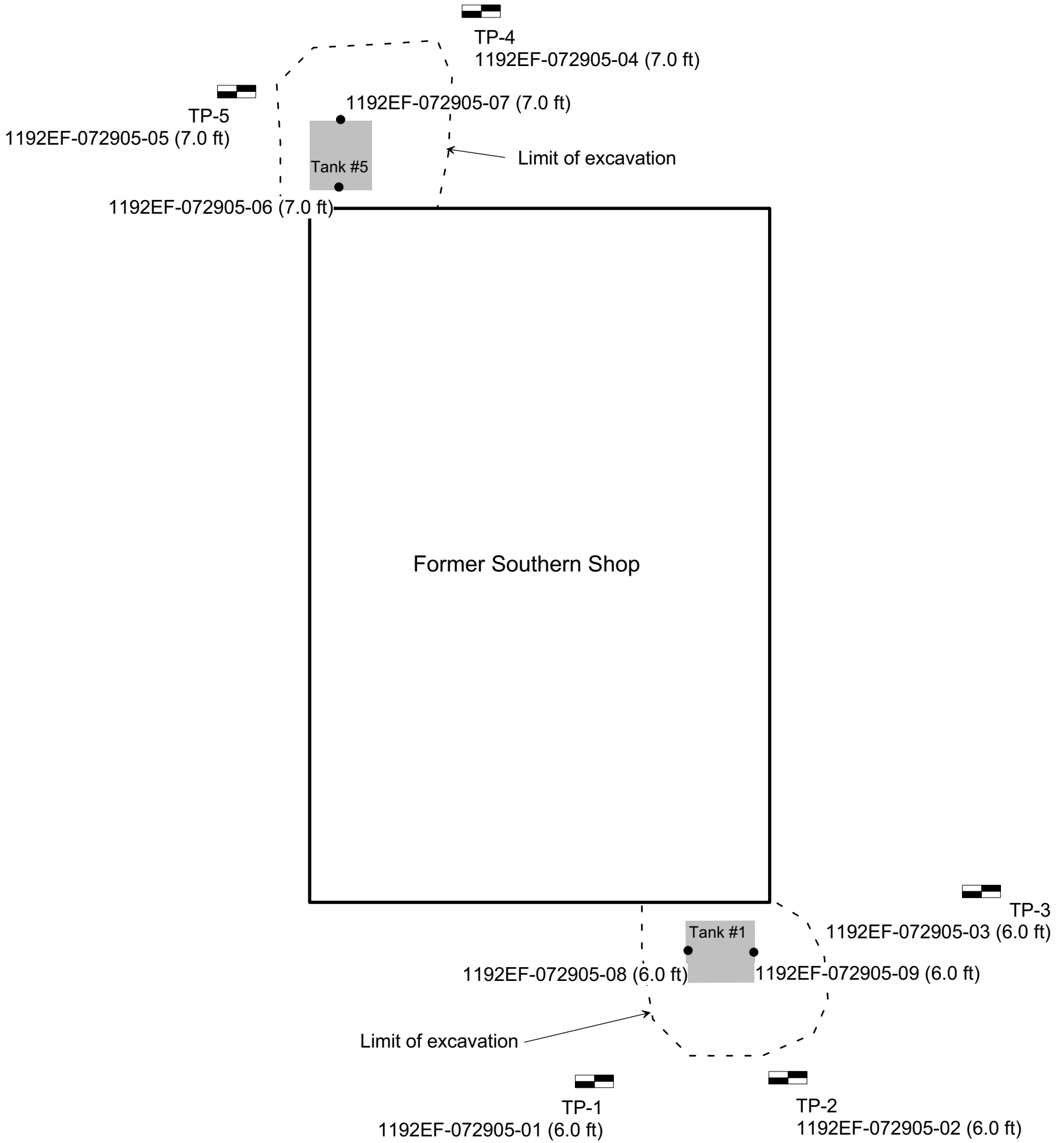
31-1-11192-012

TABLE 1
Summary of Soil Sampling Results
Heating Oil UST Removals
 ADOT&PF East Fork Maintenance Station

Sample Number	Depth (feet)	Location	GRO (mg/kg)	DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	p&m- Xylenes (mg/kg)	o-Xylene (mg/kg)
119EF-072905-01	6.0	Test Pit TP-1	1.960	261	<0.00559	<0.0224	<0.0224	0.03510	<0.0224
119EF-072905-02	6.0	Test Pit TP-2	17.900	865	<0.00661	<0.0264	0.0265	0.176	0.048
119EF-072905-03	6.0	Test Pit TP-3	28.000	606	<0.00645	<0.0258	0.0546	0.427	0.156
119EF-072905-04	7.0	Test Pit TP-4	<1.090	<20.6	<0.00543	<0.0271	<0.0271	<0.0271	<0.0271
119EF-072905-05	7.0	Test Pit TP-5	10.800	486	<0.00640	<0.0256	0.0608	0.104	<0.0256
119EF-072905-06	7.0	West end Tank #5	43.500	4310	<0.00607	0.0382	0.0349	0.463	0.110
119EF-072905-07	7.0	East end Tank #5	40.900	4420	<0.00675	0.0295	0.247	0.386	0.0428
119EF-072905-08	6.0	North end Tank #1	44.600	2080	<0.00643	0.0330	0.0755	0.464	0.187
119EF-072905-09	6.0	South end Tank #1	8.230	1000	<0.00588	<0.0235	<0.0235	0.0785	<0.0235
119EF-072905-10	1.5	Stockpile	33.800	1510	0.0151	0.0713	0.0619	0.302	0.126
119EF-072905-11	1.5	Stockpile	97.100	1870	0.00868	0.0998	0.354	1.320	0.540

Notes: GRO - gasoline range organics
 DRO - diesel range organics
 < - result less than the practical quantification limit (PQL) shown.

Parks Highway



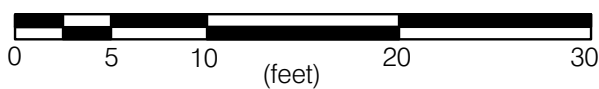
LEGEND:

● - Soil Sample Location (depth in feet)

1192EF-072905-06 (7.0 ft)

APPROXIMATE
NORTH

APPROXIMATE SCALE: 1 inch = 10 feet



ADOT&PF East Fork Maintenance Facility
Mile 185, Parks Highway, Alaska

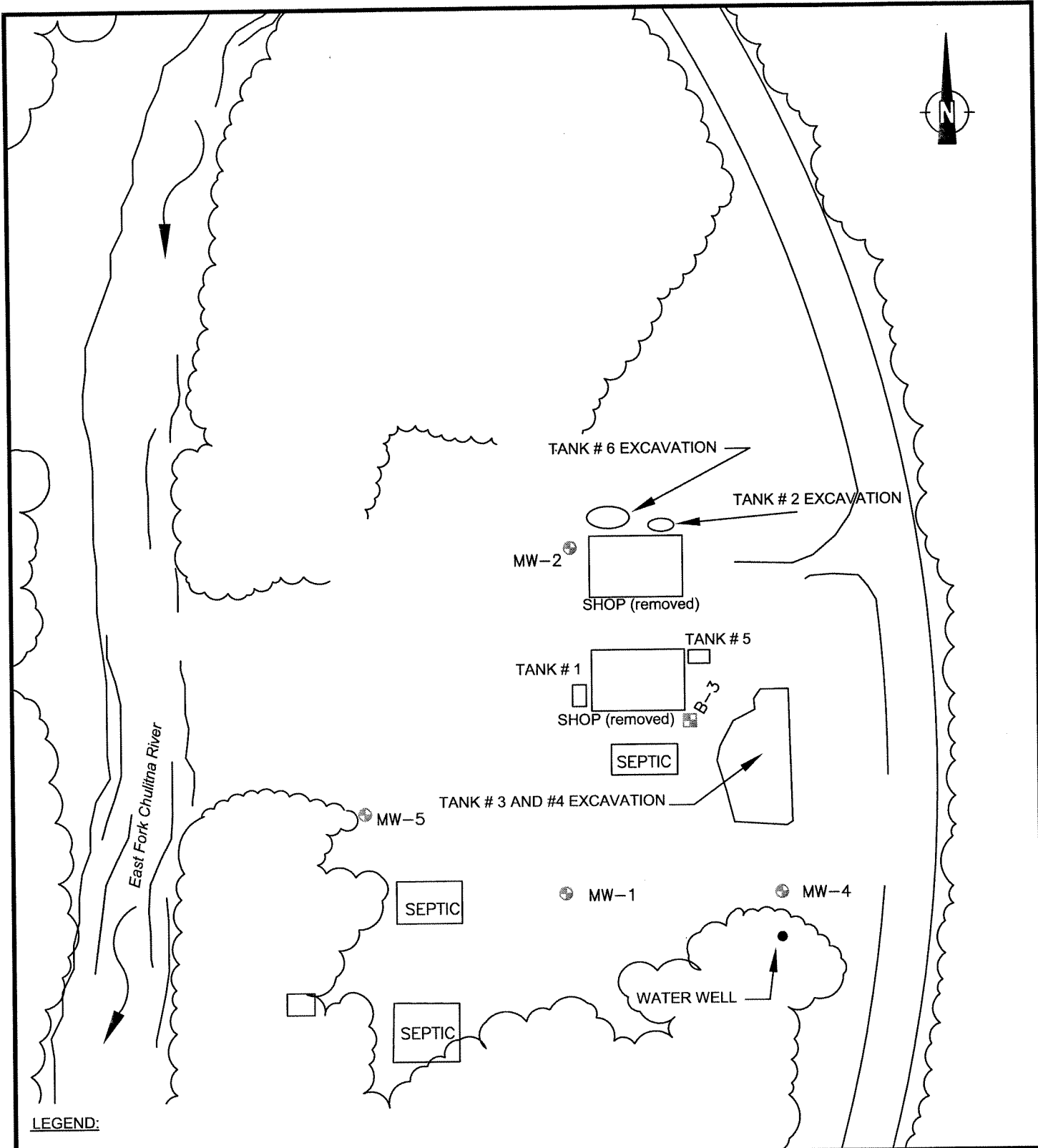
SAMPLE LOCATIONS

August 2005

31-1-11192-012

 **SHANNON & WILSON, INC.**
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 1



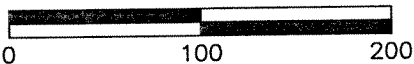
LEGEND:

BORING LOCATION (BORING)

MONITORING WELL (MW)

Base map provided by ADOT&PF

APPROXIMATE SCALE (FEET)



ADOT&PF East Fork Maintenance Station
Mile 185 Parks Highway, Alaska

MONITORING WELL LOCATIONS

August 2005

31-1-11192-012



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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 2



Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: <http://www.us.sgs.com>

Mark Lockwood
Shannon & Wilson-Fairbanks
2355 Hill Rd
Fairbanks, AK 99709

Work Order: 1054578
31-1-11192-012 East Fork DOT
Client: Shannon & Wilson-Fairbanks
Report Date: August 26, 2005

Released by:

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Control Manual that outlines this program is available at your request. The laboratory ADEC certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS Quality Assurance Program Plan and the National Environmental Laboratory Accreditation Conference.

If you have any questions regarding this report or if we can be of any other assistance, please call your SGS Project Manager at (907) 562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.

Note: Soil samples are reported on a dry weight basis unless otherwise specified.



SGS Ref.# 1054578001
Client Name Shannon & Wilson-Fairbanks
Project Name/# 31-1-11192-012 East Fork DOT
Client Sample ID 1192EF-072905-01
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
Printed Date/Time 08/26/2005 16:03
Collected Date/Time 07/29/2005 12:45
Received Date/Time 08/02/2005 9:00
Technical Director Stephen C. Ede

Sample Remarks:

DRO - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	1960	1120	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Benzene	5.59 U	5.59	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Toluene	22.4 U	22.4	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Ethylbenzene	22.4 U	22.4	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
P & M -Xylene	35.1	22.4	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
o-Xylene	22.4 U	22.4	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	96.9		%	AK101 8021B	A	81-108	07/29/05	08/10/05	jaa
4-Bromofluorobenzene <surr>	84.2		%	AK101 8021B	A	50-150	07/29/05	08/10/05	jaa
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	261	21.0	mg/Kg	AK102	B		08/09/05	08/10/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	86.1		%	AK102	B	50-150	08/09/05	08/10/05	JC
<u>Solids</u>									
Total Solids	91.4		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578002
 Client Name Shannon & Wilson-Fairbanks
 Project Name/# 31-1-11192-012 East Fork DOT
 Client Sample ID 1192EF-072905-02
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
 Printed Date/Time 08/26/2005 16:03
 Collected Date/Time 07/29/2005 13:05
 Received Date/Time 08/02/2005 9:00
 Technical Director Stephen C. Ede

Sample Remarks:
 DRO - The pattern is consistent with a weathered middle distillate.
 GRO/BTEX - BFB surrogate recovery is biased high due to matrix interference.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	17900	1320	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Benzene	6.61 U	6.61	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Toluene	26.4 U	26.4	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Ethylbenzene	26.5	26.4	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
P & M -Xylene	176	26.4	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
o-Xylene	48.1	26.4	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	95.1		%	AK101 8021B	A	81-108	07/29/05	08/10/05	jaa
4-Bromofluorobenzene <surr>	280	!	%	AK101 8021B	A	50-150	07/29/05	08/10/05	jaa
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	865	79.1	mg/Kg	AK102	B		08/09/05	08/10/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	67		%	AK102	B	50-150	08/09/05	08/10/05	JC
<u>Solids</u>									
Total Solids	91.2		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578003
 Client Name Shannon & Wilson-Fairbanks
 Project Name/# 31-1-11192-012 East Fork DOT
 Client Sample ID 1192EF-072905-03
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
 Printed Date/Time 08/26/2005 16:03
 Collected Date/Time 07/29/2005 13:25
 Received Date/Time 08/02/2005 9:00
 Technical Director Stephen C. Ede

Sample Remarks:

DRO - The pattern is consistent with a weathered middle distillate.
 GRO/BTEX - BFB surrogate recovery is biased high due to matrix interference.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	28000	12900	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Benzene	6.45 U	6.45	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Toluene	25.8 U	25.8	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Ethylbenzene	54.6	25.8	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
P & M -Xylene	427	25.8	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
o-Xylene	156	25.8	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	96.3		%	AK101 8021B	A	81-108	07/29/05	08/10/05	jaa
4-Bromofluorobenzene <surr>	478	!	%	AK101 8021B	A	50-150	07/29/05	08/12/05	MML
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	606	20.5	mg/Kg	AK102	B		08/09/05	08/10/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	74		%	AK102	B	50-150	08/09/05	08/10/05	JC
<u>Solids</u>									
Total Solids	89.6		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578004
 Client Name Shannon & Wilson-Fairbanks
 Project Name/# 31-1-11192-012 East Fork DOT
 Client Sample ID 1192EF-072905-04
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
 Printed Date/Time 08/26/2005 16:03
 Collected Date/Time 07/29/2005 13:45
 Received Date/Time 08/02/2005 9:00
 Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	1090 U	1090	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Benzene	5.43 U	5.43	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Toluene	21.7 U	21.7	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Ethylbenzene	21.7 U	21.7	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
P & M -Xylene	21.7 U	21.7	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
o-Xylene	21.7 U	21.7	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	94.5		%	AK101 8021B	A	81-108	07/29/05	08/10/05	jaa
4-Bromofluorobenzene <surr>	59.9		%	AK101 8021B	A	50-150	07/29/05	08/10/05	jaa
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	20.6 U	20.6	mg/Kg	AK102	B		08/09/05	08/10/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	53.5		%	AK102	B	50-150	08/09/05	08/10/05	JC
<u>Solids</u>									
Total Solids	90.5		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578005
Client Name Shannon & Wilson-Fairbanks
Project Name/# 31-1-11192-012 East Fork DOT
Client Sample ID 1192EF-072905-05
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
Printed Date/Time 08/26/2005 16:03
Collected Date/Time 07/29/2005 14:00
Received Date/Time 08/02/2005 9:00
Technical Director Stephen C. Ede

Sample Remarks:

DRO - The pattern is consistent with a weathered middle distillate.
GRO/BTEX - BFB surrogate recovery is biased high due to matrix interference.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	10800	1280	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Benzene	6.40 U	6.40	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Toluene	25.6 U	25.6	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
Ethylbenzene	60.8	25.6	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
P & M -Xylene	104	25.6	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
o-Xylene	25.6 U	25.6	ug/Kg	AK101 8021B	A		07/29/05	08/10/05	jaa
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	99.5		%	AK101 8021B	A	81-108	07/29/05	08/10/05	jaa
4-Bromofluorobenzene <surr>	235	!	%	AK101 8021B	A	50-150	07/29/05	08/10/05	jaa
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	486	20.8	mg/Kg	AK102	B		08/09/05	08/10/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	94.1		%	AK102	B	50-150	08/09/05	08/10/05	JC
<u>Solids</u>									
Total Solids	91.7		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578006
 Client Name Shannon & Wilson-Fairbanks
 Project Name/# 31-1-11192-012 East Fork DOT
 Client Sample ID 1192EF-072905-06
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
 Printed Date/Time 08/26/2005 16:03
 Collected Date/Time 07/29/2005 15:30
 Received Date/Time 08/02/2005 9:00
 Technical Director Stephen C. Ede

Sample Remarks:

DRO - The pattern is consistent with a weathered middle distillate.
 GRO/BTEX - BFB surrogate recovery is biased high due to matrix interference.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	43500	1210	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Benzene	6.07 U	6.07	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Toluene	38.2	24.3	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Ethylbenzene	34.9	24.3	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
P & M -Xylene	463	24.3	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
o-Xylene	110	24.3	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	98.2		%	AK101 8021B	A	81-108	07/29/05	08/12/05	MML
4-Bromofluorobenzene <surr>	490	!	%	AK101 8021B	A	50-150	07/29/05	08/12/05	MML
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	4310	201	mg/Kg	AK102	B		08/09/05	08/10/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	78.1		%	AK102	B	50-150	08/09/05	08/10/05	JC
<u>Solids</u>									
Total Solids	91.3		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578007
 Client Name Shannon & Wilson-Fairbanks
 Project Name/# 31-1-11192-012 East Fork DOT
 Client Sample ID 1192EF-072905-07
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
 Printed Date/Time 08/26/2005 16:03
 Collected Date/Time 07/29/2005 15:45
 Received Date/Time 08/02/2005 9:00
 Technical Director Stephen C. Ede

Sample Remarks:

GRO/BTEX - BFB surrogate recovery is biased high due to matrix interference.
 DRO - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	40900	13500	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
Benzene	6.75 U	6.75	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Toluene	29.5	27.0	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Ethylbenzene	247	27.0	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
P & M -Xylene	386	27.0	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
o-Xylene	42.8	27.0	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	96.7		%	AK101 8021B	A	81-108	07/29/05	08/12/05	MML
4-Bromofluorobenzene <surr>	552	!	%	AK101 8021B	A	50-150	07/29/05	08/11/05	jaa
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	4420	219	mg/Kg	AK102	B		08/09/05	08/15/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	135		%	AK102	B	50-150	08/09/05	08/15/05	JC
<u>Solids</u>									
Total Solids	90.2		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578008
 Client Name Shannon & Wilson-Fairbanks
 Project Name/# 31-1-11192-012 East Fork DOT
 Client Sample ID 1192EF-072905-08
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
 Printed Date/Time 08/26/2005 16:03
 Collected Date/Time 07/29/2005 18:00
 Received Date/Time 08/02/2005 9:00
 Technical Director Stephen C. Ede

Sample Remarks:
 GRO/BTEX - BFB surrogate recovery is biased high due to matrix interference.
 DRO - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	44600	12900	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Benzene	6.43 U	6.43	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
Toluene	33.0	25.7	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
Ethylbenzene	75.5	25.7	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
P & M -Xylene	464	25.7	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
o-Xylene	187	25.7	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	94.1		%	AK101 8021B	A	81-108	07/29/05	08/11/05	jaa
4-Bromofluorobenzene <surr>	750	!	%	AK101 8021B	A	50-150	07/29/05	08/12/05	MML
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	2080	210	mg/Kg	AK102	B		08/09/05	08/15/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	97.4		%	AK102	B	50-150	08/09/05	08/15/05	JC
<u>Solids</u>									
Total Solids	91.2		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578009
Client Name Shannon & Wilson-Fairbanks
Project Name/# 31-1-11192-012 East Fork DOT
Client Sample ID 1192EF-072905-09
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time

Printed Date/Time 08/26/2005 16:03
Collected Date/Time 07/29/2005 18:15
Received Date/Time 08/02/2005 9:00
Technical Director Stephen C. Ede

Sample Remarks:

GRO/BTEX - BFB surrogate recovery is biased high due to matrix interference.
DRO - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	8230	1180	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Benzene	5.88 U	5.88	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Toluene	23.5 U	23.5	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Ethylbenzene	23.5 U	23.5	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
P & M -Xylene	78.5	23.5	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
o-Xylene	23.5 U	23.5	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	94.5		%	AK101 8021B	A	81-108	07/29/05	08/12/05	MML
4-Bromofluorobenzene <surr>	188	!	%	AK101 8021B	A	50-150	07/29/05	08/12/05	MML
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	1000	86.1	mg/Kg	AK102	B		08/09/05	08/15/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	101		%	AK102	B	50-150	08/09/05	08/15/05	JC
<u>Solids</u>									
Total Solids	89.4		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578010
 Client Name Shannon & Wilson-Fairbanks
 Project Name/# 31-1-11192-012 East Fork DOT
 Client Sample ID 1192EF-072905-10
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time
 Printed Date/Time 08/26/2005 16:03
 Collected Date/Time 07/29/2005 18:40
 Received Date/Time 08/02/2005 9:00
 Technical Director Stephen C. Ede

Sample Remarks:
 GRO/BTEX - BFB surrogate recovery is biased high due to matrix interference.
 DRO - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	33800	1340	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
Benzene	15.1	6.72	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
Toluene	71.3	26.9	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
Ethylbenzene	61.9	26.9	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
P & M -Xylene	302	26.9	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
o-Xylene	126	26.9	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	93.8		%	AK101 8021B	A	81-108	07/29/05	08/11/05	jaa
4-Bromofluorobenzene <surr>	482	!	%	AK101 8021B	A	50-150	07/29/05	08/11/05	jaa
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	1510	81.9	mg/Kg	AK102	B		08/09/05	08/15/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	122		%	AK102	B	50-150	08/09/05	08/15/05	JC
<u>Solids</u>									
Total Solids	90.2		%	SM20 2540G	B			08/04/05	HM



SGS Ref.# 1054578011
Client Name Shannon & Wilson-Fairbanks
Project Name/# 31-1-11192-012 East Fork DOT
Client Sample ID 1192EF-072905-11
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time

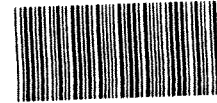
Printed Date/Time 08/26/2005 16:03
Collected Date/Time 07/29/2005 18:45
Received Date/Time 08/02/2005 9:00
Technical Director Stephen C. Ede

Sample Remarks:

DRO - The pattern is consistent with a weathered middle distillate.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	97100	15500	ug/Kg	AK101 8021B	A		07/29/05	08/11/05	jaa
Benzene	8.68	7.77	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Toluene	99.8	31.1	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
Ethylbenzene	354	31.1	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
P & M -Xylene	1320	31.1	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
o-Xylene	540	31.1	ug/Kg	AK101 8021B	A		07/29/05	08/12/05	MML
<u>Surrogates</u>									
1,4-Difluorobenzene <surr>	972	!	%	AK101 8021B	A	81-108	07/29/05	08/11/05	jaa
1,4-Difluorobenzene <surr>	104		%	AK101 8021B	A	81-108	07/29/05	08/12/05	MML
4-Bromofluorobenzene <surr>	1070	!	%	AK101 8021B	A	50-150	07/29/05	08/11/05	jaa
<u>Semivolatile Organic Fuels Department</u>									
Diesel Range Organics	1870	214	mg/Kg	AK102	B		08/09/05	08/15/05	JC
<u>Surrogates</u>									
5a Androstane <surr>	133		%	AK102	B	50-150	08/09/05	08/15/05	JC
<u>Solids</u>									
Total Solids	88.0		%	SM20 2540G	B			08/04/05	HM

1054578



Shannon & Wilson, Inc.

400 N. 34th Street, Suite 100 Seattle, WA 98103 (206) 632-8020
 11500 Olive Blvd., Suite 276 St. Louis, MO 63141 (314) 872-8170

2055 Hill Road Fairbanks, AK 99707 (907) 479-0600
 5430 Fairbanks Street, Suite 3 Anchorage, AK 99518 (907) 561-2120

Chain of Custody Record

Page 1 of 2
 Laboratory CITE
 Attn: SUNNY

Analysis Parameters/Sample Container Description
 (include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.	Grab	Analysis Parameters/Sample Container Description				Total Number of Containers	Remarks/Matrix
1192EF-072905-01	① A-B	12:45	7-29	X	X	X				2	SOIL
1192EF-072905-02	②	13:05		X	X	X				2	[Large handwritten arrow pointing down]
1192EF-072905-03	③	13:25		X	X	X				2	
1192EF-072905-04	④	13:45		X	X	X				2	
1192EF-072905-05	⑤	14:00		X	X	X				2	
1192EF-072905-06	⑥	15:30		X	X	X				2	
1192EF-072905-07	⑦	15:45		X	X	X				2	
1192EF-072905-08	⑧	18:00		X	X	X				2	
1192EF-072905-09	⑨	18:15		X	X	X				2	
1192EF-072905-10	⑩	18:40		X	X	X				2	

2005

DDO AK102
 AK101
 GDO BTEX

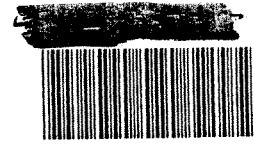
Project Information		Sample Receipt	
Project Number: <u>1192</u>	Total Number of Containers	COC Seals/Intact? Y/N/NA	<u>NA</u>
Project Name: <u>EAST FORK DOT</u>	Received Good Cond./Cold		<u>G.D</u>
Contact: <u>MARK LOCKWOOD</u>	Delivery Method:	<u>HAND</u>	
Ongoing Project? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(attach shipping bill, if any)		
Sampler: <u>MS</u>			

Instructions	
Requested Turn Around Time:	<u>STANDARD</u>
Special Instructions:	<u>→ 31-1-1192-012</u>

Distribution: White - w/shipment - returned to Shannon & Wilson w/ Laboratory report
 Yellow - w/shipment - for consignee files
 Pink - Shannon & Wilson - Job File

Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature: <u>[Signature]</u> Time: <u>3:45P</u>	Signature: <u>[Signature]</u> Time: <u>16:46</u>	Signature: _____ Time: _____
Printed Name: <u>MARK LOCKWOOD</u> Date: <u>8-1-05</u>	Printed Name: <u>Sunny Castleberry</u> Date: <u>8-1-05</u>	Printed Name: _____ Date: _____
Company: <u>SEW FAX</u>	Company: <u>SGS</u>	Company: _____
Received By: 1.	Received By: 2.	Received By: 3.
Signature: <u>[Signature]</u> Time: <u>3:45P</u>	Signature: _____ Time: _____	Signature: <u>[Signature]</u> Time: <u>09:00</u>
Printed Name: <u>Jerric Atkins</u> Date: <u>8-1-05</u>	Printed Name: _____ Date: _____	Printed Name: <u>Sunny Johnson</u> Date: <u>8-2-05</u>
Company: <u>SGS</u>	Company: _____	Company: <u>SGS</u>

105451



Shannon & Wilson, Inc.

400 N. 34th Street, Suite 100
Seattle, WA 98103
(206) 632-8020

11500 Olive Blvd., Suite 276
St. Louis, MO 63141
(314) 872-8170

2055 Hill Road
Fairbanks, AK 99707
(907) 479-0600

5430 Fairbanks Street, Suite 3
Anchorage, AK 99518
(907) 561-2120

Chain of Custody Record

Page 2 of 2
Laboratory CFE
Attn: SONNY

Analysis Parameters/Sample Container Description (include preservative if used)

Sample Identity	Lab No.	Time	Date Sampled	Comp.		Grab		Total Number of Containers	Remarks/Matrix
				1	2	1	2		
1192EF-072905-11	DA-B	18:45	7-29	X	X	X	X	2	SOIL

Project Information		Sample Receipt		Relinquished By: 1.		Relinquished By: 2.		Relinquished By: 3.	
Project Number: 31-1-1192-012	Total Number of Containers	COC Seals/Intact? Y/N/NA	JA	Signature: [Signature]	Time: 5:45P	Signature:	Time:	Signature:	Time:
Project Name: EASTFORK DOT	Received Good Cond./Cold	Delivery Method: HAND	GD	Printed Name: MARK LOCKWOOD	Date: 8-1-05	Printed Name:	Date:	Printed Name:	Date:
Contact: MARK LOCKWOOD	Ongoing Project? Yes <input type="checkbox"/> No <input type="checkbox"/>	(attach shipping bill, if any)		Company: SEW FBX		Company:		Company:	
Sampler: MS	Instructions		Received By: 1.		Received By: 2.		Received By: 3.		
Requested Turn Around Time:	Special Instructions:		Signature: [Signature]	Time: 5:45P	Signature:	Time:	Signature:	Time: 0900	
Distribution: White - w/shipment - returned to Shannon & Wilson w/ Laboratory report Yellow - w/shipment - for consignee files Pink - Shannon & Wilson - Job File		Printed Name: ERIC ATKINS		Date: 8-1-05	Printed Name:	Date:	Printed Name: JANEY JOHNSON	Date: 8-2-05	
		Company: SFS		Company:		Company:	SFS		



SGS WO#:

4578

SAMPLE RECEIPT FORM FOR TRANSFERS
From
FAIRBANKS, ALASKA OR HONOLULU, HAWAII
To
ANCHORAGE, AK

TO BE COMPLETED IN ANCHORAGE UPON ARRIVAL FROM FAIRBANKS OR HAWAII.
NOTES RECORDED BELOW ARE ACTIONS NEEDED UPON ARRIVAL IN ANCHORAGE.

Notes: _____

Receipt Date / Time: 8-2-09 0900

Is Sample Date/Time Conversion Necessary? Yes _____ No

Number of Hours From Alaska Local Time: _____

Foreign Soil? Yes _____ No

Delivery method to Anchorage (circle all that apply):

Alert Courier / UPS / FedEx / USPS / AA Goldstreak / NAC / ERA / PenAir / Carlile / Cyden / SGS

Other: _____

Airbill # _____

COOLER AND TEMP BLANK READINGS*

Cooler ID	Temp Blank (°C)	Cooler (°C)	Cooler ID	Temp Blank (°C)	Cooler (°C)
<u>4</u>	<u>2.0</u>	<u>3.9</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CUSTODY SEALS INTACT: YES / NO
/ WHERE: London, London

COMPLETED BY: JT

*Temperature readings include thermometer correction factors.

SGS Environmental

CUSTODY SEAL

Signature: Jenny Castleberry

Date/Time: 8-1-05 1640

4571
TB = 3.9
C = 3.9

4573
TB = 2.8
C = 5.0

4571
4572
4574
4575
TB = 5.1
C = 2.7

4579
4578
4574
4575
4577
TB = 2.0
C = 3.9

CUSTODY SEAL

SGS Environmental

Signature: Jenny Castleberry

Date/Time: 8-1-05 1640

Date/Time: 8-1-05 1640

Signature: Jenny Castleberry

CUSTODY SEAL

SGS Environmental

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Date/Time: 8-1-05 1640

Signature: Jenny Castleberry

CUSTODY SEAL

SGS Environmental

Date/Time: 8-1-05 1640

Signature: Jenny Castleberry

CUSTODY SEAL

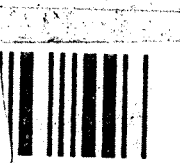
SGS Environmental

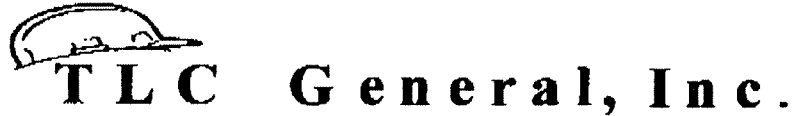
Date/Time: 8-1-05 1640

Signature: Jenny Castleberry

CUSTODY SEAL

SGS Environmental





August 30, 2005

Shannon & Wilson, Inc.
2055 Hill Rd.
Fairbanks, AK 99709

Attn: Mark Lockwood

RE: Disposition of Eastfork UST

Sir:

This is to inform your office of the disposition of the two (2) storage tanks that were unearthed from the Eastfork DOT Station.

- A) Two 1,000 gallon heating oil storage tanks that were unearthed at the Eastfork DOT station. These tanks are to be cleaned and cut up for disposal. It was properly marked as per Section 6.2 of API Recommended Practice 1604.

Let me take the time to thank you for giving us the opportunity to work on your project and if there is anything else that we can do for you, please don't hesitate to give us a call so that we may address the issue in an expedient manner.

Respectfully:



Frank Taylor