102.38.121

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

50 Years

April 2, 2007

Mr. Roy Johnson
c/o Borgeson & Burns
100 Cushman Street, Suite 311
Fairbanks, Alaska 99701

Attn: Mr. Roy Johnson

RE: RELEASE CHARACTERIZATION, SUNRISE BAGEL, 223 ILLINOIS STREET, FAIRBANKS, ALASKA

We have completed our characterization of previously identified diesel contamination along the northern boundary of the Sunrise Bagel Property, 223 Illinois Street, Fairbanks, Alaska (Figure 1). Our work included a review of relevant environmental records, utility locates, soil sampling from four borings, and groundwater sampling from one temporary well, in general accordance with the Alaska Department of Environmental Conservation (ADEC) Underground Storage Tank (UST) Regulations 18 AAC 78 and our proposal dated October 4, 2006. The objective of our work was to characterize current soil and groundwater conditions in the area where diesel contaminated soil was identified in 1992.

BACKGROUND

Diesel contamination was identified along the northern boundary of the subject property during the Alaska Department of Transportation and Public Facilities (ADOT&PF) Illinois Street Hazardous Waste Investigation in 1992. The seven soil borings shown in Figure 2 were completed as part of that investigation. Soil collected from Boring B-7 had concentrations of diesel range organics (DRO) up to 29,000 parts per million (ppm), gasoline range organics (GRO) up to 550 ppm, and benzene and ethylbenzene up to 4.2 ppm and 12 ppm, respectively. These analytes exceeded their ADEC soil cleanup levels.

In 2004 a right-of-way study conducted by Golder and Associates advanced five borings along the western and southern property boundaries. Soil samples from these borings did not exceed cleanup levels for residual range organics (RRO), DRO, GRO, or BTEX (benzene, toluene,

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ethylbenzene, and xylenes). Arsenic exceeded its cleanup level in one sample, but was consistent with background levels typical for the Fairbanks area.

Historical Records Review

To determine the possible sources of diesel contamination along the northern property boundary we reviewed select aerial photographs from 1938 to 1999, the Fairbanks North Star Borough (FNSB) assessment records from 1965 to the present, and ADEC environmental records.

A 1938 aerial photograph shows Illinois Street, the Alaska Railroad coalbunkers, and a slough north of the subject property; two small building were located on the property. According to the FNSB records, Jerry's Body Shop, also called Tennessee Garage (workshop and apartment), was built on the property near the northern boundary in 1961 (Figure 3); a storage shed (1952) and Polar Electric Supply (1965) occupied the site north of the subject property (Figure 3). A 1963 aerial photograph show the apartment building to the northeast. The 1970 aerial photograph shows the site to the north was cleared, except for the apartment building.

According to the FNSB records, a self-service gas station (Downtown Gas) occupied the site in 1987; however, it was not apparent in our May 1987 aerial photo. In 1988 the Tennessee Garage was dismantled. In 1999, Gilfilian Engineering supervised the removal of three USTs and the dispensing island from the property. Twelve soil samples collected from the limits of the UST excavation did not contain GRO, DRO, or BTEX in excess of their ADEC cleanup levels. ADEC environmental records report the leaking underground storage tank (LUST) site associated with Downtown Gas as closed in 1999 with "No Further Action" status. The inclusion of the site on the LUST database was based on the 1992 boring data, not on a documented release from the UST system.

The site is currently paved, and Sunrise Bagel and Espresso has occupied the site since 2002.

FIELD ACTIVITIES

On November 10, 2006, Angela Miller, an environmental specialist with Shannon & Wilson, collected soil samples from four soil borings (B-1, B-2, B-3, and B-4) installed in the vicinity

of previously identified soil contamination (Figure 3). A groundwater sample was collected from a temporary well point installed in soil boring B-1, which was advanced in the location of former soil boring B-7. GeoTek, Inc., an Anchorage based drilling contractor, assisted with field activities.

A Geoprobe® 66 Series track-mounted, direct-push drill rig was mobilized to the site. The Geoprobe® used static weight and percussion to advance a steel rod 20 feet below the ground surface while collecting continuous core samples of unconsolidated material. Samples were recovered in 5-foot intervals in Teflon®-lined push rods. Samples from the liner were field screened using a photoionization detector (PID) to assess relative abundance of total volatile organic compounds. Field screening results ranged from less than 1 part per million (ppm) to 455 ppm. Samples with the highest field screening result in each boring were submitted for analytical testing; two samples were submitted from boring B-1. A bentonite seal was placed above the water table, and drill cuttings were returned to the soil borings from which they were removed. Boring logs and photographs are attached to this report.

Geoprobe® Screen Point tooling with reusable well screen and riser tubes was inserted into the push rods advanced in Boring B-1. The well was purged prior to analytical sample collection to remove fine sediment entrained during installation. Purging was accomplished using a battery-powered variable-speed peristaltic pump fitted with new single-use silicon tubing. Purge water was discharged to the ground surface, and the boring was sealed with bentonite.

Analytical soil and groundwater samples were collected in laboratory-supplied sampling containers, placed into a cooler with chain-of-custody documentation, and kept cold during hand delivery to SGS Environmental Services (SGS) in Fairbanks, Alaska. Samples were analyzed as shown in the following table.

SOIL SAMPLE ANALYSIS

	GRO	DRO	RRO	BTEX	Polynuclear Aromatic Hydrocarbons	RCRA Metals
	AK 101	AK 102	AK103	EPA 8021	EPA 8270	EPA 6000
Boring B-1*	2	2		2		
Boring B-2^	1	1	1	1	1	1
Boring B-3	1	1		1		
Boring B-4	1	1		1		
Quality Control	1	1		1		
Total	**6**	**6**	**1**	**6**	**1**	**1**

Note: * Boring B-1 was advanced where petroleum contamination was previously identified in soil boring B-7.
^ Boring B-2 field screening result exhibited the highest degree of contamination

GROUNDWATER SAMPLE ANALYSIS

	GRO	DRO	BTEX
	AK 101	AK 102	EPA 8021
Boring B-1	1	1	1
Quality Control	1	1	1
Total	**2**	**2**	**2**

RESULTS

Subsurface Conditions

Soils at the site consist of brown, sandy silt to a depth of about 13.5 feet below the ground surface (bgs), underlain by slightly silty, sandy gravel. Groundwater was encountered in boring B-1 at a depth of 15.68 feet bgs.

Analytical Results

Soil sample results are summarized in Table 1, and groundwater sample results are summarized in Table 2. A copy of the SGS laboratory report is also provided as an attachment to this report.

The ADEC Method 2 soil cleanup levels for migration to groundwater in the under 40-inch precipitation zone are established in 18 AAC 75.341, and ADEC groundwater cleanup levels are established in 18 AAC 75.345. These cleanup levels are presented in Tables 1 and 2 for reference.

The soil samples collected from Boring B-1 had concentrations of DRO of 26,800 mg/kg (12.5 feet bgs) and 2,540 mg/kg (17.5 feet bgs), both exceeding the soil cleanup level. GRO and xylenes were reported at concentrations above the laboratory practical quantitation limit (PQL), but below cleanup levels. Other BTEX constituents were not detected above the PQL; however, benzene in one sample from Boring B-1 had a PQL above the cleanup level (PQL = 0.0609 mg/kg; cleanup level = 0.02 mg/kg).

Soil collected from Boring B-2 had GRO, DRO, 1-methylnaphthalene, and arsenic in excess of their cleanup levels. GRO were detected at 663 mg/kg, and DRO were detected at 18,800 mg/kg. Ethylbenzene, xylenes, 2-methylnaphthalene, phenanthrene, naphthalene, barium, cadmium, chromium, lead, and selenium were detected at concentrations below cleanup levels. RRO, benzene, toluene, and silver were not detected above the PQL; however, benzene had PQLs above the cleanup level (PQL = 0.150 mg/kg; cleanup level = 0.02 mg/kg).

Soil collected from Boring B-3 contained DRO at 9,600 mg/kg above the cleanup level; GRO, ethylbenzene, and xylenes were reported at concentrations below their cleanup levels; and benzene and toluene were not detected above their PQLs.

Soil collected from Boring B-4 did not contain analytes at concentrations above their PQLs.

The groundwater sample and duplicate sample from the temporary well point contained DRO at 0.702 and 1.120 mg/L, respectively, both below the DRO groundwater cleanup level. GRO were not detected above the cleanup level, and BTEX constituents were not reported above the PQL in either sample or duplicate sample.

nw gw contam.

QUALITY ASSURANCE AND QUALITY CONTROL

Field quality control (QC) procedures for this project included the collection and analysis of duplicate pairs of soil and groundwater samples, and temperature and trip blanks that accompanied the samples during collection activities and transportation. The temperature blank demonstrated the samples were delivered to the laboratory within the acceptable temperature limits. The cooler temperature was below the acceptable limit when the samples arrived in Anchorage by SGS transfer from Fairbanks; however, the temperature blank was within acceptable limits. The trip blanks did not contain analytes above PQLs, indicating cross-contamination among samples was unlikely.

The duplicate soil samples *1343-111006-B22/1343-111006-B23* and duplicate groundwater samples *1343-111006-B11/ 1343-111006-B12* were analyzed to evaluate error associated with sampling and laboratory variability. Field duplicate precision can be expressed as a relative percent difference (RPD) between duplicates if both samples contain analytes above their PQL. The RPDs for GRO, DRO, ethylbenzene, and o-xylene detected in soil duplicate samples were within Shannon & Wilson's acceptable range of ±50 for soil samples; p&m Xylenes were outside our acceptable range, and other analytes were not detected above the PQL. The RPD for DRO detected in the groundwater duplicate samples was outside Shannon & Wilson's acceptable range of ±30 for water samples. Other analytes were not detected above the laboratory PQL.

The SGS Laboratory Data Report and the ADEC Laboratory Data Review Checklist (attached) identify and discuss analytical anomalies associated with the data. In summary, DRO in soil and groundwater samples were consistent with a weathered middle distillate. Surrogate recoveries were outside laboratory QC goals (biased high) due to hydrocarbon interference in samples *1343-111006-B13, 1343-111006-B14, 1343-111006-B22, 1343-111006-B23,* and *1343-111006-B32.* Naphthalene, 1-methylnaphthalene, and 2- methylnaphthalene were detected above the PQL in the soil method blank (a measure of analytical sensitivity); however the concentration in associated sample *1343-111006-B22* was greater than five times the method blank concentration. The matrix spike (MS) and matrix spike duplicate (MSD) sample recoveries (measures of accuracy) were outside laboratory controls; however, the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) samples (measures of

accuracy) met laboratory QC requirements. MS/MSD surrogate recoveries and RPDs (measure of precision) were outside laboratory control limits due to sample dilution. Additional analytical anomalies discussed in the SGS Laboratory Data Report do not directly affect project samples.

The data from the GRO, DRO, RRO, PAH, and metals analyses conducted on the project samples had PQLs below the ADEC soil and groundwater cleanup levels, with the exception of benzene, which had a PQL above its soil cleanup level in two of the soil samples and field duplicate. Due to the elevated PQL for benzene we cannot assess its presence or absence in samples 1343-111006-B13 and 1343-111006-B22/B23, between the respective cleanup level and its PQL.

Based on our review of analytical anomalies in relation to the data objectives for this assessment it is our opinion that although the results may be biased high, the overall utility of the laboratory data are valid for characterizing contamination at the sampled locations.

CONCLUSIONS AND RECOMMENDATIONS

Soil contamination was discovered near the northern boundary of the site in 1992 during a ADOT&PF Hazardous Waste Investigation. Soil samples collected at the excavation limits during the Downtown Gas UST closures in 1999 were below the ADEC cleanup levels. The ADEC made a determination of No Further Action required for the UST site. A 2004 site right-of-way study indicated soil contamination was not present near the southern and western property boundaries.

Our historical record review revealed that several former buildings were located close to the contamination identified near the northern property boundary. Heating-oil USTs may have been used at the buildings, and the sites were used for vehicle maintenance and storage. The source of the contamination may have been on the site and/or on the property to the north.

In our assessment, GRO were detected above its soil cleanup level in Boring B-2. DRO were detected above its soil cleanup level in borings B-1, B-2, and B-3. Benzene had PQLs above its soil cleanup level in Borings B-1 and B-2. 1-Methyl-naphthalene was detected above its soil cleanup level in Boring B-2. Arsenic was detected at a concentration above its soil cleanup

level in Boring B-2, but was within the background range typical for Fairbanks. No other analytes were detected above their soil cleanup levels. No groundwater analytes exceeded their cleanup levels. DRO exceed the maximum allowable soil concentration (12,500 mg/kg) set by the ADEC. If that material is left in place, a deed notice would be required to notify prospective buyers.

Based on these conclusions we provide the following recommendations:

- Develop a corrective action plan to remove the soil exceeding the ADEC cleanup levels. Once removed, soil should be handled and treated in accordance with applicable regulations. Collect samples from the limits of the excavation to document conditions.
- Due the proximity of the contamination to the northern property boundary, the corrective action should attempt to coordinate with the property owner to the north to determine the northern extent of contamination.

LIMITATIONS

This report presents conclusions based on limited sampling and analysis that we performed at Sunrise Bagel, 223 Illinois Street, Fairbanks, Alaska. The data presented in this letter report should be considered representative of the time 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, 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 Roy Johnson. 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.

We trust this information is sufficient for your needs at the present time. 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 Analytical Soil Sample Results
Table 2 Analytical Water Sample Results
Figure 1 Site Location
Figure 2 1992 Boring Locations
Figure 3 Site Plan
Soil Boring Logs
Site Photographs
Laboratory Data Review Checklist
SGS Laboratory Data Report

TABLE 1
ANALYTICAL SOIL SAMPLE RESULTS
SUNRISE BAGEL
FAIRBANKS, ALAKSA

Sample Number	Boring Number	Location	Depth (ft bgs)	PID (ppm)	AK101	AK102	EPA 8021 (BTEX)				
					GRO (mg/kg)	DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	p&m-Xylenes (mg/kg)	o-Xylene (mg/kg)
1343-111006-B13	B-1	Former B-7	12.5	244	109	**26,800**	**< 0.0609**	< 0.244	< 0.244	0.882	0.616
1343-111006-B14	B-1	Former B-7	17.5	106	21.8	**2,540**	< 0.00809	< 0.0324	< 0.0324	0.136	0.475
1343-111006-B22	2	6 feet south of B-1	7.5	455	**663**	**18,800**	**< 0.150**	< 0.602	2.06	10.6	35.2
1343-111006-B23	2	Duplicate of *1343-111006-B22*	7.5	455	**419**	**18,100**	**< 0.137**	< 0.550	1.80	2.56	33.5
1343-111006-B32	3	12 feet west of B-1	7.5	206	74.0	**9,600**	< 0.0178	< 0.0713	0.0778	0.963	3.64
1343-111006-B44	4	18.5 feet east of B-1	18.0	1	< 1.69	< 22.2	< 0.00843	< 0.0337	< 0.0337	< 0.0337	< 0.0337
ADEC Cleanup Levels- Migration to Groundwater					300	250	0.02	5.4	5.5	Total 78	
							0.022 mg/kg	6.7 mg/kg	0.13 mg/kg	1.5 mg/kg	

Sample Number	Boring Number	Location	Depth (ft bgs)	PID (ppm)	AK103	EPA 8270 SIM (PAH)			
					RRO (mg/kg)	2-Methyl-naphthalene (mg/kg)	Phen-anthrene (mg/kg)	Naphth-alene (mg/kg)	1-Methyl-naphthalene (mg/kg)
1343-111006-B22	2	6 feet south of B-1	7.5	455	< 1,090	52.0	6.69	19.3	**47.2**
ADEC Cleanup Levels- Migration to Groundwater					11,000	60.9	4,300	21	43
						1.3 mg/kg	39 mg/kg	0.038 mg/kg	0.41 mg/kg

Sample Number	Boring Number	Location	Depth (ft bgs)	PID (ppm)	RCRA Metals EPA 6000							
					Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Mercury (mg/kg)
1343-111006-B22	2	6 feet south of B-1	7.5	455	**11.3**	111	0.373	18.8	7.63	1.04	< 0.109	<0.0439
ADEC Cleanup Levels- Migration to Groundwater					2	1,100	5	26	400*	3.5	21	1.4
					0.20 mg/kg	2100 mg/kg	9.1 mg/kg	NA	--	6.9 mg/kg	11 mg/kg	0.36 mg/kg

Notes: ADEC Soil Cleanup levels, *Oil and Other Hazardous Substance Pollution Control* - 18 AAC 75.341, Method 2, Under 40 Inch Zone

*- Injestion/Inhalation Cleanup level (migration to groundwater value not reported in ADEC 18 AAC 75.341, Method 2, Under 40 Inch Zone
EPA- Environemtnal Protection Agency
GRO- Gasoline Range Organics
DRO- Diesel Range Organics
RRO- Residual Range Organics
BTEX- Benzene, Toluene, Ethlybenzene, and Xylenes analyzed by method EPA 8260B
PAH- polynuclear aromatic compunds - analytes detected above their practical quantitation limit (PQL)
ft bgs- feet below ground surface
PID (ppm)- Photionization Detector (parts per million)
mg/kg- milligrams per kilogram
< 1.69- value is less than the laboratory practical quantitation limit (PQL) also known as method reporting limit (MRL)
bold- value exceeds the ADEC cleanup level

TABLE 1
ANALYTICAL SOIL SAMPLE RESULTS
SUNRISE BAGEL
FAIRBANKS, ALAKSA

Sample Number	Boring Number	Location	Depth (ft bgs)	PID (ppm)	AK101 GRO (mg/kg)	AK102 DRO (mg/kg)	EPA 8021 (BTEX) Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	p&m-Xylenes (mg/kg)	o-Xylenes (mg/kg)
1343-111006-B13	1	Former B-7	12.5	244	109	**26,800**	**< 0.0609**	< 0.244	< 0.244	0.882	0.616
1343-111006-B14	1	Former B-7	17.5	106	21.8	**2,540**	< 0.00809	< 0.0324	< 0.0324	0.136	0.475
1343-111006-B22	2	6 feet south of B-1	7.5	455	**663**	**18,800**	**< 0.150**	< 0.602	2.06	10.6	35.2
1343-111006-B23	2	Duplicate of *1343-111006-B22*	7.5	455	**419**	**18,100**	**< 0.137**	< 0.550	1.80	2.56	33.5
1343-111006-B32	3	12 feet west of B-1	7.5	206	74.0	**9,600**	< 0.0178	< 0.0713	0.0778	0.963	3.64
1343-111006-B44	4	18.5 feet east of B-1	18.0	1	< 1.69	< 22.2	< 0.00843	< 0.0337	< 0.0337	< 0.0337	< 0.0337
ADEC Cleanup Levels- Migration to Groundwater					300	250	0.02	5.4	5.5	Total 78	

Sample Number	Boring Number	Location	Depth (ft bgs)	PID (ppm)	AK103 RRO (mg/kg)	EPA 8270 SIM (PAH) 2-Methyl-naphthalene (mg/kg)	Phen-anthrene (mg/kg)	Naphth-alene (mg/kg)	1-Methyl-naphthalene (mg/kg)
1343-111006-B22	2	6 feet south of B-1	7.5	455	< 1,090	52.0	6.69	19.3	**47.2**
ADEC Cleanup Levels- Migration to Groundwater					11,000	60.9	4,300	21	43

Sample Number	Boring Number	Location	Depth (ft bgs)	PID (ppm)	RCRA Metals EPA 6000 Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
1343-111006-B22	2	6 feet south of B-1	7.5	455	**11.3**	111	0.373	18.8	7.63	1.04	< 0.109
ADEC Cleanup Levels- Migration to Groundwater					2	1,100	5	26	400*	3.5	21

Notes: ADEC Soil Cleanup levels, *Oil and Other Hazardous Substance Pollution Control* - 18 AAC 75.341, Method 2, Under 40 Inch Zone

*- Injestion/Inhalation Cleanup level (migration to groundwater value not reported in ADEC 18 AAC 75.341, Method 2, Under 40 Inch Zone

EPA- Environemtnal Protection Agency

GRO- Gasoline Range Organics

DRO- Diesel Range Organics

RRO- Residual Range Organics

BTEX- Benzene, Toluene, Ethlybenzene, and Xylenes analyzed by method EPA 8260B

PAH- polynuclear aromatic compunds - analytes detected above their practical quantitation limit (PQL)

ft bgs- feet below ground surface

PID (ppm)- Photionization Detector (parts per million)

mg/kg- milligrams per killogram

< 1.69- value is less than the laboratory practical quantitation limit (PQL) also known as method reporting limit (MRL)

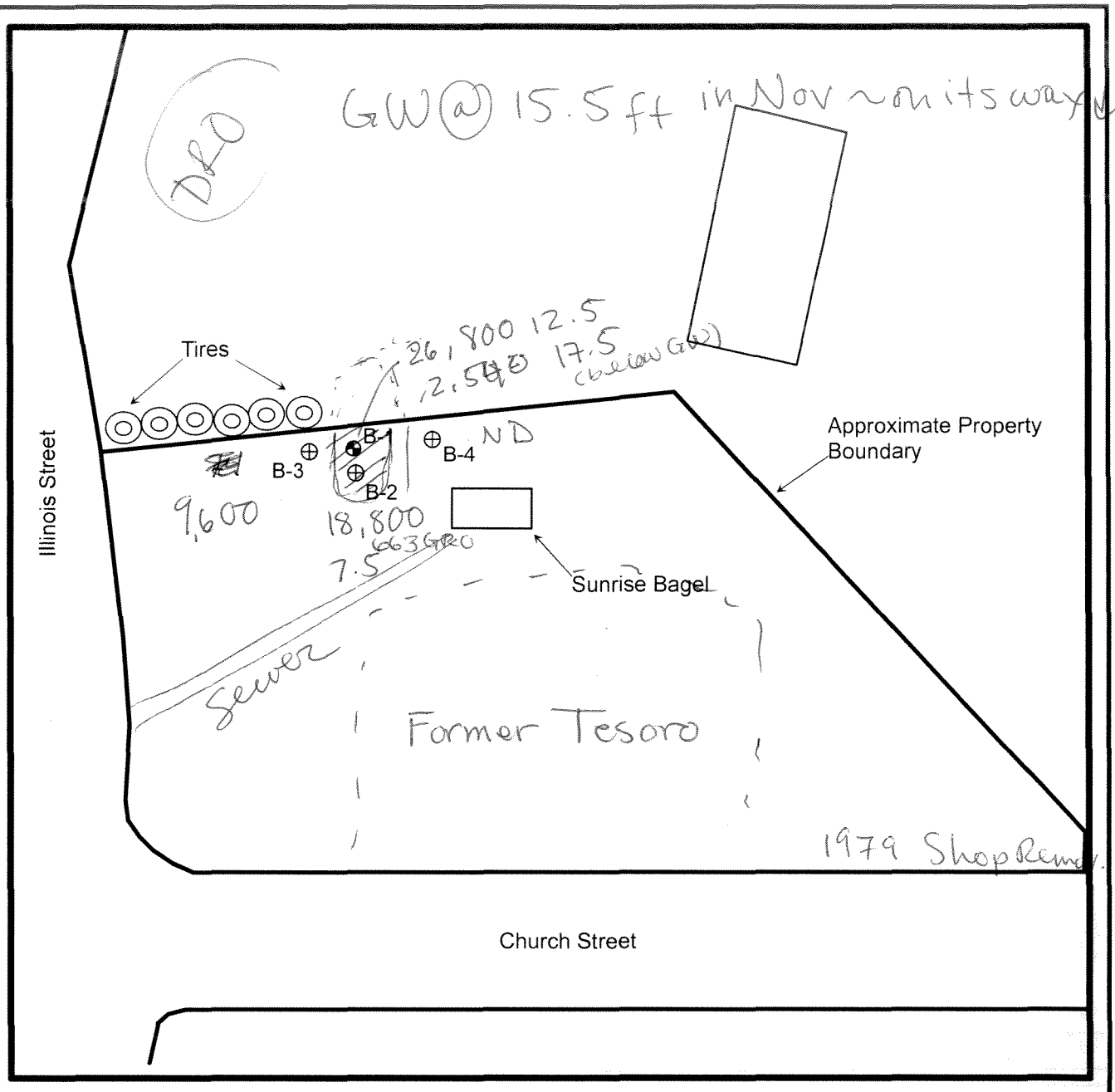
bold- value exceedes the ADEC cleanup level

TABLE 2
ANALYTICAL WATER SAMPLE RESULTS
SUNRISE BAGEL
FAIRBANKS, ALAKSA

Sample Number	Location	Depth to Water (ft bgs)	AK101 GRO (mg/L)	AK102 DRO (mg/L)	EPA 8021B (BTEX) Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	p&m-Xylenes (ug/L)	o-Xylenes (ug/L)
1343-111006-B11	Temporary Well Point in Soil Boring B-1	15.68	< 0.100	0.702	< 0.500	< 2.00	< 2.00	< 2.00	< 2.00
1343-111006-B12	Duplicate of *1343-111006-B11*	15.68	<0.109	1.12	< 0.500	< 2.00	< 2.00	< 2.00	< 2.00
ADEC Cleanup Levels			1.3	1.5	5	1,000	700	Total 10,000	
			2.2 ug/L		4.6 ug/L	1100 ug/L	15 ug/L	190 ug/L	

Notes:
ADEC Groundwater Cleanup levels, *Oil and Other Hazardous Substance Pollution Control* - 18 AAC 75.345, Table C
EPA- Environemtnal Protection Agency
GRO- Gasoline Range Organics
DRO- Diesel Range Organics
BTEX- Benzene, Toluene, Ethlybenzene, and Xylenesanalyzed by method EPA 8260B
ft bgs- feet below ground surface
ug/L- micrograms per liter

< 100- value is less than the laboratory practical quantitation limit (PQL) also known as method reporting limit (MRL)
bold- value exceedes the ADEC cleanup level



LEGEND:

B-1 — Temporary well point installed in soil boring (formerly known as B-7)

B-2 — Soil boring

APPROXIMATE SCALE: 1 inch = 40 feet

0 20 40 80 120

(feet)

N

Sunrise Bagel
Release Characterization
Fairbanks, Alaska

SITE PLAN

January 2007 31-1-11343-001

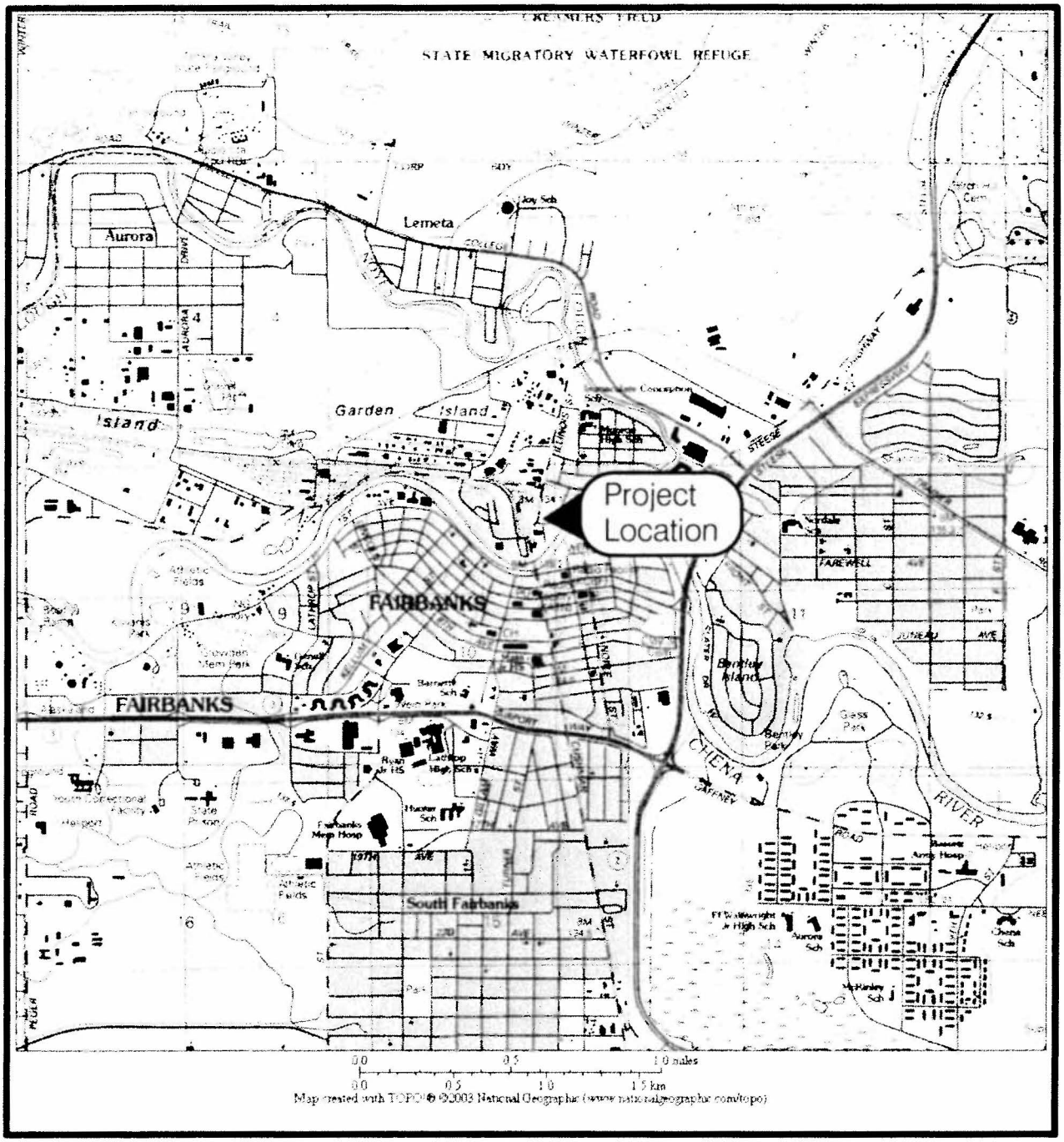
SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 1

TABLE 2
ANALYTICAL WATER SAMPLE RESULTS
SUNRISE BAGEL
FAIRBANKS, ALAKSA

Sample Number	Location	Depth to Water (ft bgs)	AK101	AK102	EPA 8021B (BTEX)				
			GRO (mg/L)	DRO (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	p&m-Xylenes (ug/L)	o-Xylene (ug/L)
1343-111006-B11	Temporary Well Point in Soil Boring B-1	15.68	< 0.100	0.702	< 0.500	< 2.00	< 2.00	< 2.00	< 2.00
1343-111006-B12	Duplicate of *1343-111006-B11*	15.68	0.109	1.12	< 0.500	< 2.00	< 2.00	< 2.00	< 2.00
ADEC Cleanup Levels			1.3	1.5	5	1,000	700	Total 10,000	

Notes:
ADEC Groundwater Cleanup levels, *Oil and Other Hazardous Substance Pollution Control* - 18 AAC 75.345, Table C
EPA- Environemtnal Protection Agency
GRO- Gasoline Range Organics
DRO- Diesel Range Organics
BTEX- Benzene, Toluene, Ethlybenzene, and Xylenesanalyzed by method EPA 8260B
ft bgs- feet below ground surface
ug/L- micrograms per liter
< 100- value is less than the laboratory practical quantitation limit (PQL) also known as method reporting limit (MRL)
bold- value exceeds the ADEC cleanup level



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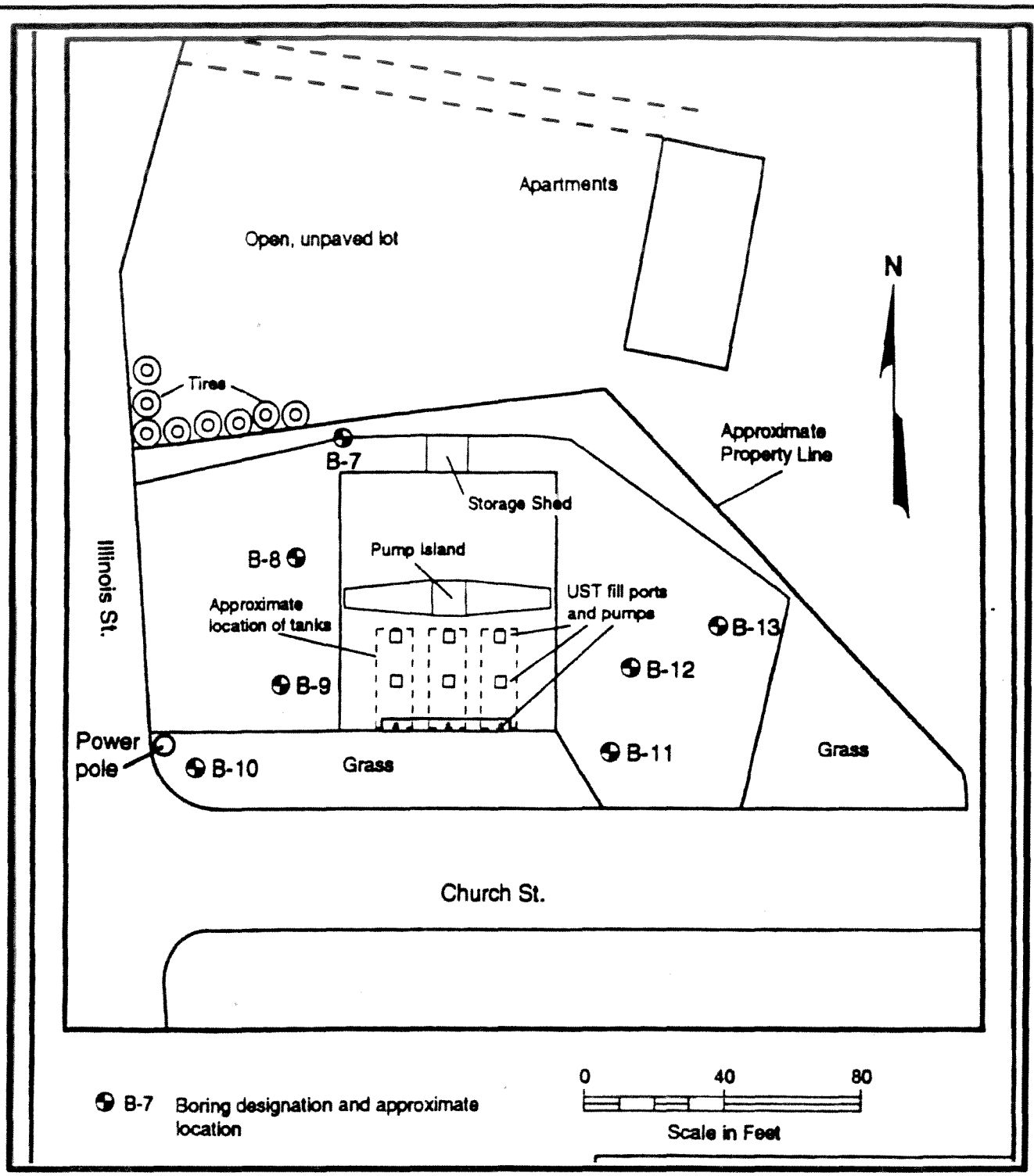
Sunrise Bagel
Release Characterization
Fairbanks, Alaska

SITE LOCATION

April 2007 31-1-11343-001

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 1



Sunrise Bagel
Release Characterization
Fairbanks, Alaska

1992 BORING LOCATIONS

April 2007 31-1-11343-001

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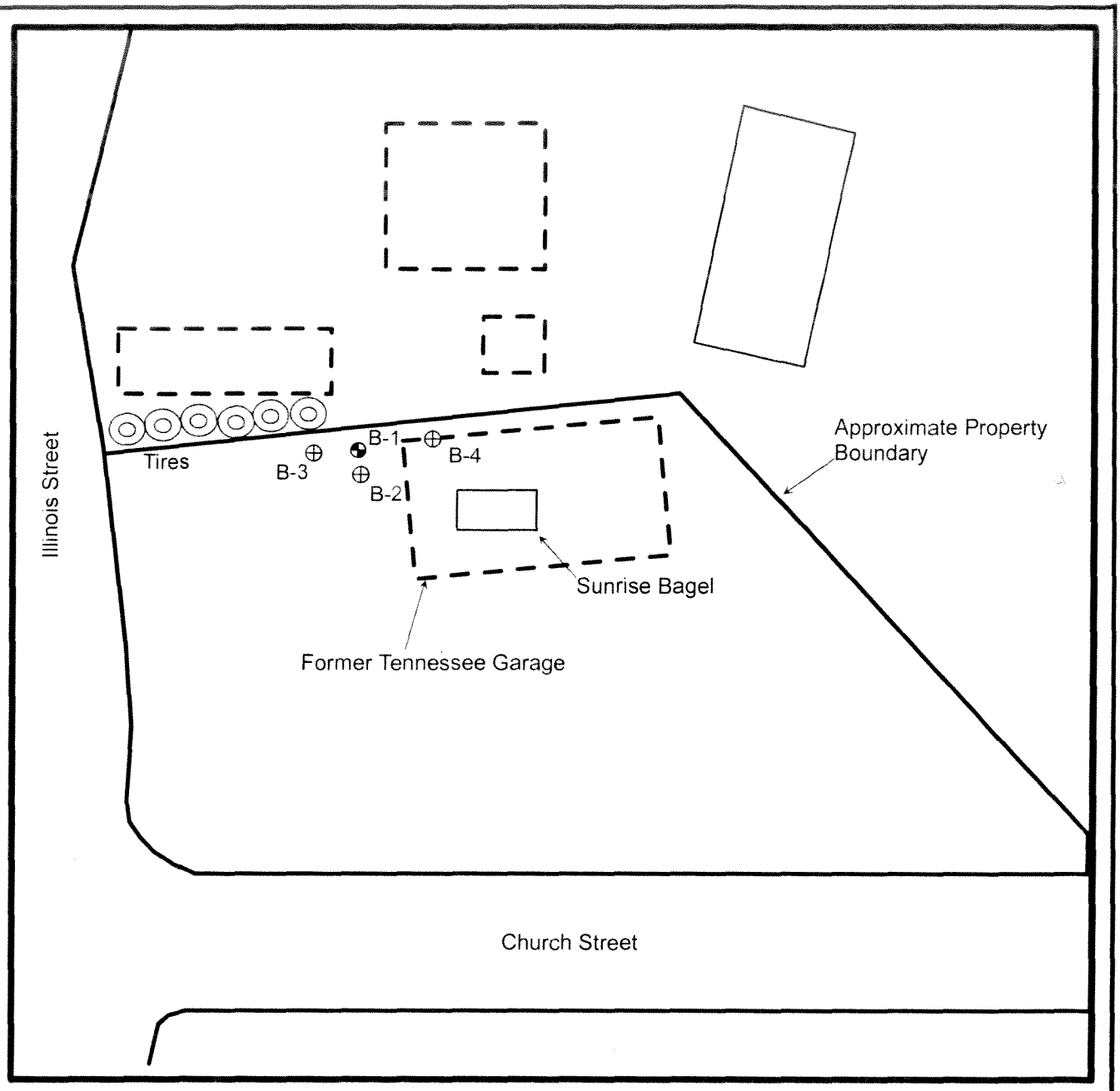
Figure 2



LEGEND:

B-1 ◔ — Temporary well point installed in soil boring (formerly known as B-7)

B-2 ⊕ — Soil boring

— Approximate location of former building based on historical aerial photographs

APPROXIMATE SCALE: 1 inch = 40 feet

0 20 40 80 120

(feet)

N

Sunrise Bagel
Release Characterization
Fairbanks, Alaska

SITE PLAN

April 2007 31-1-11343-001

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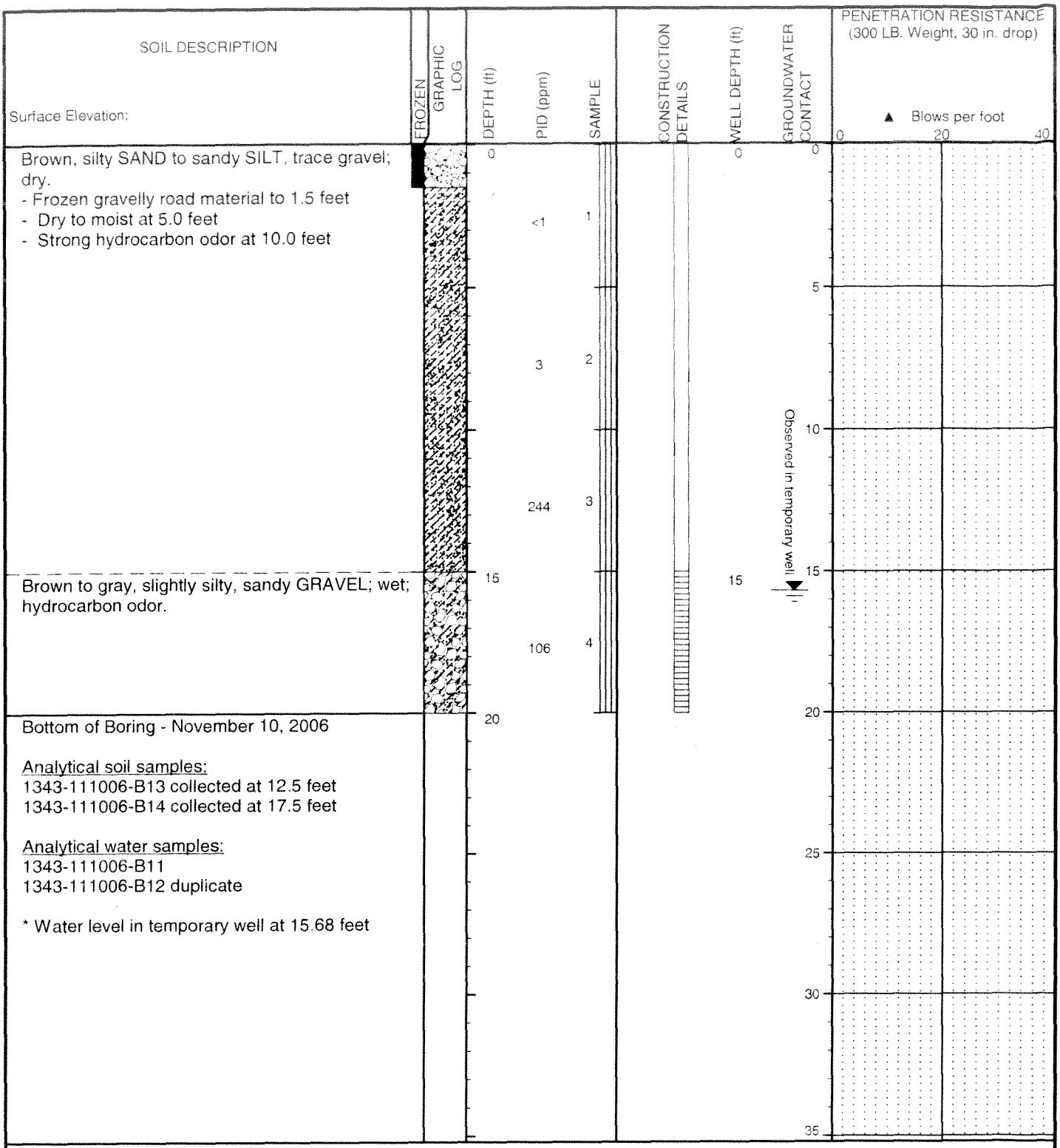
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 3



Legend

Frozen Ground

Sandy gravel/gravelly sand

Silty sand/sandy silt

Silty, Sandy Gravel

Water table at boring completion

3 in. O.D. Dry Core Run

Pipe Installed

Screened Interval

Note: Stratification lines represent approximate boundaries between soil types and transition may be gradual.

Sunrise Bagel
Release Characterization
Fairbanks, Alaska

LOG OF BORING B-1

April 2007

31-1-11343-001

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 4

Sheet 1 of 1

SOIL DESCRIPTION Surface Elevation:	FROZEN	GRAPHIC LOG	DEPTH (ft)	PID (ppm)	SAMPLE	CONSTRUCTION DETAILS	WELL DEPTH (ft)	GROUNDWATER CONTACT	PENETRATION RESISTANCE (300 LB. Weight, 30 in. drop) ▲ Blows per foot 0 20 40
Brown, silty SAND to sandy SILT, trace gravel; dry. - Frozen to 3.0 feet - Gravelly road material to 2.0 feet - Brown to gray at 5.0 feet - Strong hydrocarbon odor at 5.0 feet			0	3	1				
				455	2				
				310	3				
Brown to gray, slightly silty, sandy GRAVEL; dry to moist; hydrocarbon odor. - Wet at 17.0 feet			13.5	19	4			Observed during drilling	
Bottom of Boring - November 10, 2006 Analytical soil samples: 1343-111006-B22 collected at 7.5 feet 1343-111006-B23 duplicate			20						

0 5 10 15 20 25 30 35

Legend

Frozen Ground

- Sandy gravel/gravelly sand
- Silty sand/sandy silt
- Silty, Sandy Gravel
- Water table at boring completion
- 3 in. O.D. Dry Core Run

Note: Stratification lines represent approximate boundaries between soil types and transition may be gradual.

Sunrise Bagel
Release Characterization
Fairbanks, Alaska

LOG OF BORING B-2

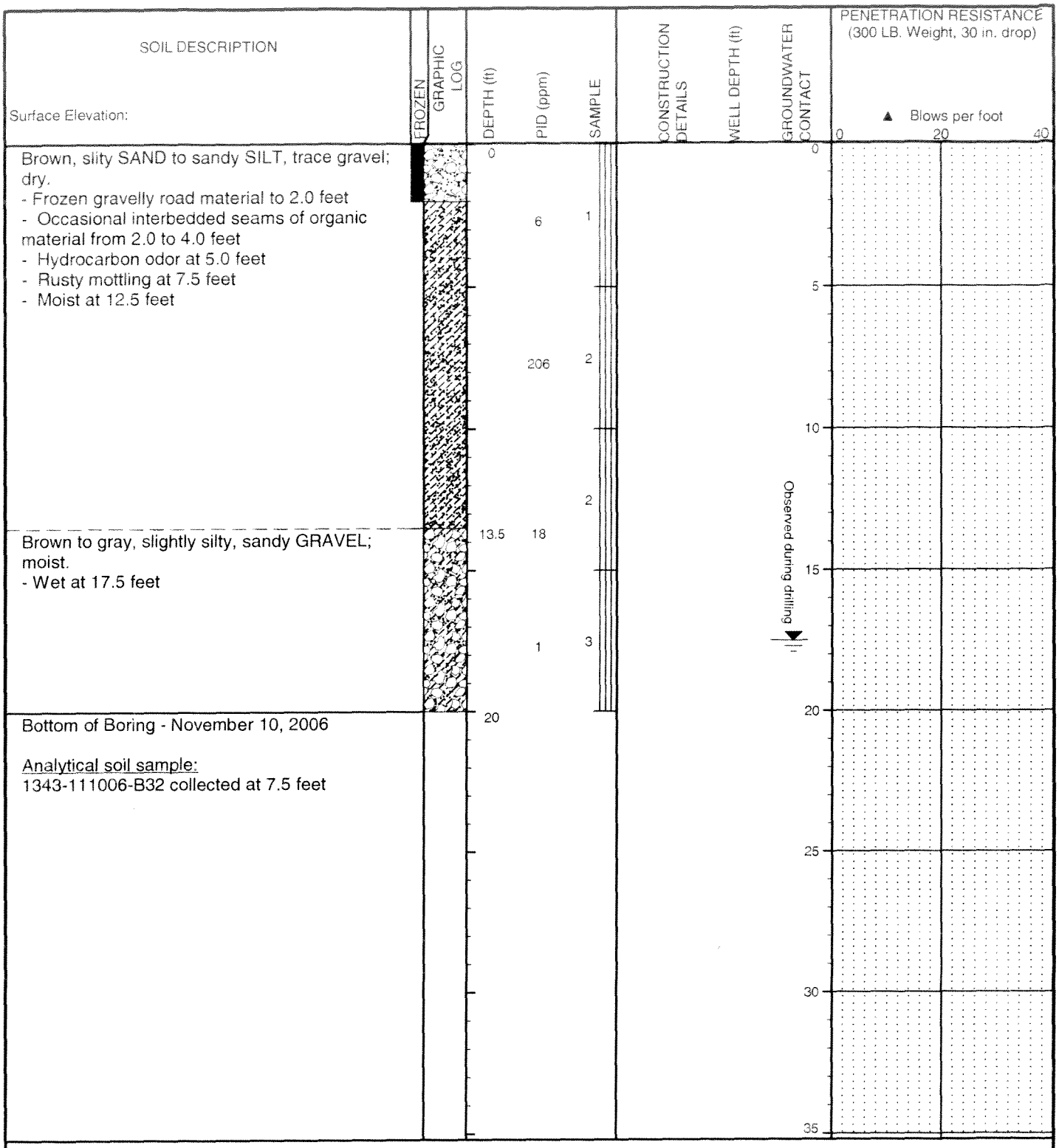
April 2007

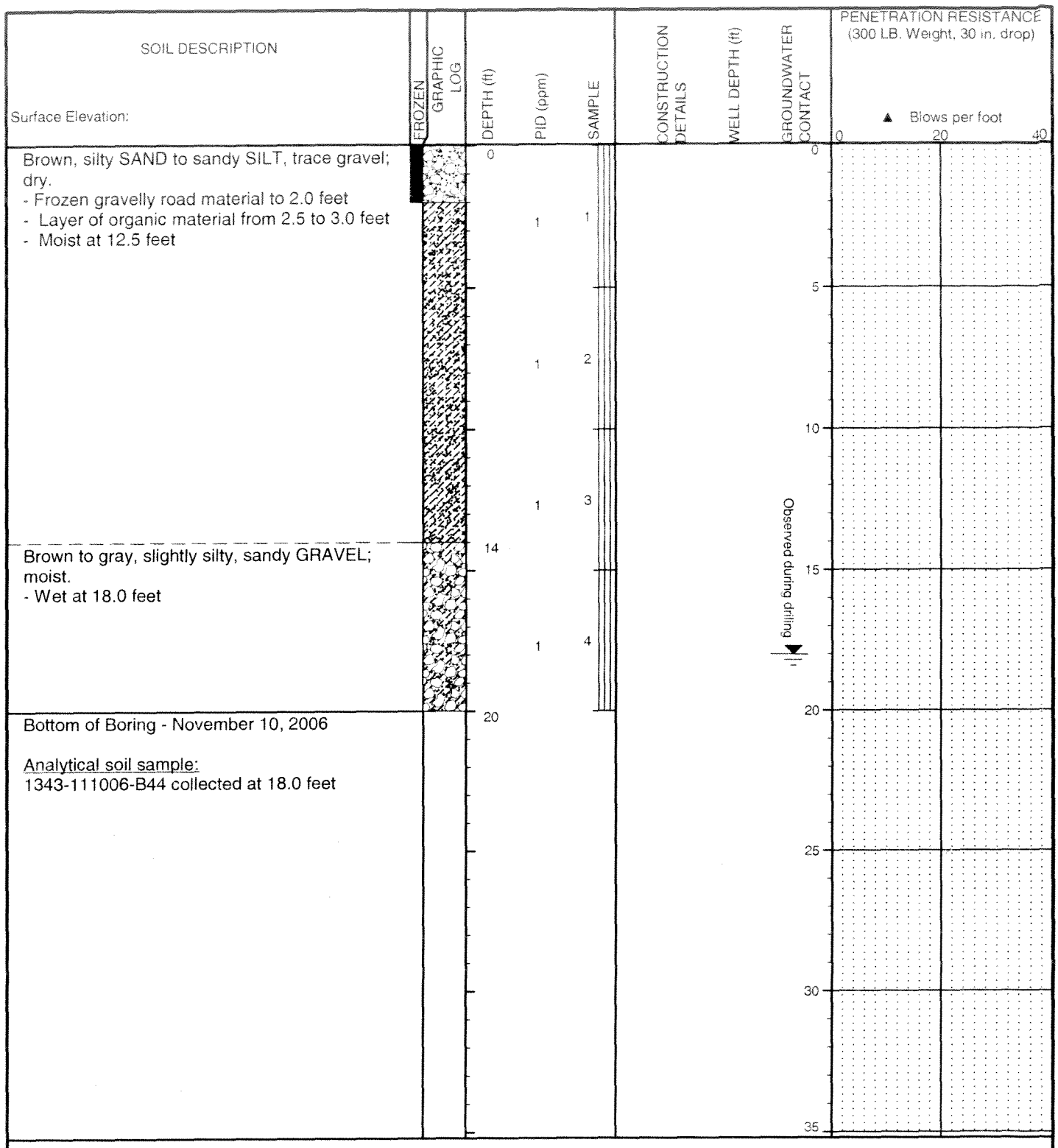
31-1-11343-001

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 5

Sheet 1 of 1


SOIL DESCRIPTION
Surface Elevation:
FROZEN
GRAPHIC LOG
DEPTH (ft)
PID (ppm)
SAMPLE
CONSTRUCTION DETAILS
WELL DEPTH (ft)
GROUNDWATER CONTACT
PENETRATION RESISTANCE
(300 LB. Weight, 30 in. drop)
Blows per foot
0
20
40
Brown, slity SAND to sandy SILT, trace gravel; dry.
- Frozen gravelly road material to 2.0 feet
- Occasional interbedded seams of organic material from 2.0 to 4.0 feet
- Hydrocarbon odor at 5.0 feet
- Rusty mottling at 7.5 feet
- Moist at 12.5 feet
0
6
1
206
2
2
Brown to gray, slightly silty, sandy GRAVEL; moist.
- Wet at 17.5 feet
13.5
18
1
3
Observed during drilling
Bottom of Boring - November 10, 2006
Analytical soil sample:
1343-111006-B32 collected at 7.5 feet
20
0
5
10
15
20
25
30
35
Legend
Frozen Ground
Sandy gravel/gravelly sand
Silty sand/sandy silt
Silty, Sandy Gravel
Water table at boring completion
3 in. O.D. Dry Core Run
Note: Stratification lines represent approximate boundaries between soil types and transition may be gradual.
Sunrise Bagel
Release Characterization
Fairbanks, Alaska
LOG OF BORING B-3
April 2007
31-1-11343-001
SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
Figure 6
Sheet 1 of 1



Legend

- Frozen Ground
- Sandy gravel/gravelly sand
- Silty sand/sandy silt
- Silty, Sandy Gravel
- Water table at boring completion
- 3 in. O.D. Dry Core Run

Note: Stratification lines represent approximate boundaries between soil types and transition may be gradual.

Sunrise Bagel
Release Characterization
Fairbanks, Alaska

LOG OF BORING B-4

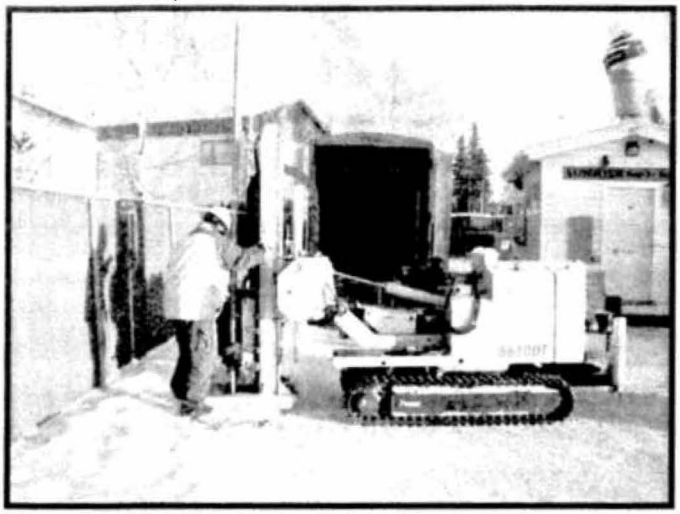
April 2007

31-1-11343-001

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Figure 7

Sheet 1 of 1



November 10, 2006. Boring B-1 looking east.

November 10,2006. Boring B-2 looking north.

Laboratory Data Review Checklist

1. Laboratory

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

   ☒ Yes ☐ No Comments:

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

   ☐ Yes ☐ No Comments:

2. Chain of Custody (COC)

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

   ☒ Yes ☐ No Comments:

   b. Correct analyses requested?

   ☒ Yes ☐ No Comments:

3. Laboratory Sample Receipt Documentation

   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

   ☐ Yes ☒ No Comments:

   Cooler temperature was too cold during SGS transfer from Fairbanks to Anchorage, however the temperature blank was within acceptable limits

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

   ☒ Yes ☐ No Comments:

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

   ☐ Yes ☐ No Comments:

   No anomolies were reported by the laboratory

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

☑ Yes ☐ No Comments:

Sample temperatures were reported on the SGS sample receipt form

e. Data quality or usability affected? Explain.

Comments:

See QA/QC section of the report

4. Case Narrative

a. Present and understandable?

☑ Yes ☐ No Comments:

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

☑ Yes ☐ No Comments:

c. Were all corrective actions documented?

☑ Yes ☐ No Comments:

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

Comments:

See QA/QC section of the report

5. Samples Results

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

☑ Yes ☐ No Comments:

b. All applicable holding times met?

☑ Yes ☐ No Comments:

c. All soils reported on a dry weight basis?

☑ Yes ☐ No Comments:

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

☐ Yes ☑ No Comments:

Benzene PQLs were above cleanup level in soil samples 1343-111006-B13, 1343-111006-B22, 1343-111006-B23

e. Data quality or usability affected? Explain.

Comments:

See QA/QC section of the report

6. QC Samples

a. Method Blank

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

☑ Yes ☐ No Comments:

ii. All method blank results less than PQL?

☐ Yes ☑ No Comments:

iii. If above PQL, what samples are affected?

Comments:

Analytes detected in the associated groundwater samples were greater than 5 times the method blank concentration

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

☑ Yes ☐ No Comments:

v. Data quality or usability affected? Explain.

Comments:

See QA/QC section of the report

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

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

☑ Yes ☐ No Comments:

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

☑ Yes ☐ No Comments:

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

☑ Yes ☐ No Comments:

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

☐ Yes ☑ No Comments:

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

Comments:

Soil MS/MSD RPDs for fluoranthene, and pyrene were outside acceptable limits, but were not detected in associated sample 1343-111006-B22

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

☑ Yes ☐ No Comments:

vii. Data quality or usability affected? Explain.

Comments:

See QA/QC section of the report

c. Surrogates – Organics Only

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

☑ Yes ☐ No Comments:

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

☐ Yes ☑ No Comments:

Soil MS/MSD surrogate recovery RPDs for DRO and RRO were outside acceptable limits in sample due to dilution, associated sample 1343-111006-B13. Surrogate recoveries were biased high in samples 1343-111006-B13, 1343-111006-B14, 1343-111006-B22, 1343-111006-B23, and 1343-111006-B32 due to hydrocarbon interference.

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

☑ Yes ☐ No Comments:

iv. Data quality or usability affected? Explain.

Comments:

See QA/QC section of the report

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

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

☑ Yes ☐ No Comments:

ii. All results less than PQL?

☑ Yes ☐ No Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Data quality or usability affected? Explain.

Comments:

See QA/QC section of the report

e. Field Duplicate

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

☒ Yes ☐ No Comments:

ii. Submitted blind to lab?

☒ Yes ☐ No Comments:

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

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

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐ Yes ☒ No Comments:

Soil sample and duplicateRPD for p&m xylenes was greater than 50%. Groundwater sample and duplicate RPD for DRO was greater than 30%.

iv. Data quality or usability affected? Explain.

Comments:

See QA/QC section of the report

f. Decontamination or Equipment Blank (if applicable)

☐ Yes ☐ No ☒ Not Applicable

i. All results less than PQL?

☐ Yes ☐ No Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? Explain.

Comments:

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

a. Defined and appropriate?

☐ Yes ☐ No Comments:

Completed by: Angela Miller

Title: Environmental Specialist

Date: January 01, 2007

CS Report Name: Release Characterization, Sunrise Bagel, 223 Illinois Street, Fairbanks, Alaska

Report Date: January 01, 2007

Consultant Firm: Shannon & Wilson, Inc.

Laboratory Name: SGS Environmental Services

Laboratory Report Number: 1066432

ADEC File Number: 102.38.121

ADEC RecKey Number: 1992310114101

SGS

SGS Environmental Services
Alaska Division
Level II Laboratory Data Report

Project:	31-1-11343 Sunshine Bagel
Client:	Shannon & Wilson-Fairbanks
SGS Work Order:	1066432

Released by: Stephen C. Ede
Alaska Division Technical Director

Stephen C. Ede
2006.11.27
15:27:21 -09'00'

Contents:

Note:
Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.

Client	SHANFBK	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Workorder	1066432	31-1-11343 Sunshine Bagel		

Sample ID		**Client Sample ID**

Refer to the sample receipt form for information on sample condition.

1066432001 **PS** **1343-111006-B11**

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

1066432002 **PS** **1343-111006-B12**

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

1066432003 **PS** **1343-111006-B13**

DRO - Surrogate is outside QC goals (biased high) due to hydrocarbon interference.
DRO - The pattern is consistent with a weathered middle distillate.
GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

1066432004 **PS** **1343-111006-B14**

DRO - The pattern is consistent with a weathered middle distillate.
GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

1066432005 **PS** **1343-111006-B22**

RRO - Surrogate is outside QC goals (biased high) due to hydrocarbon interference.
DRO - The pattern is consistent with a weathered middle distillate.
GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

1066432006 **PS** **1343-111006-B23**

DRO - The pattern is consistent with a weathered middle distillate.
GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

1066432007 **PS** **1343-111006-B32**

DRO - The pattern is consistent with a weathered middle distillate.
GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

741428 **MB** **MB for HBN 180341 [XXX/17573]**

RRO - MB result is greater than one half of the PQL but less than PQL.

741432 **MB** **MB for HBN 180343 [XXX/17575]**

PAHSIM - MB recovered naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene above the reporting limit. These analytes were found in the associated sample greater than 5 times the method blank concentration.

741606 **MS** **1343-111006-B13(1066432003MS)**

DRO - MS/MSD spike recoveries are outside controls. Sample recovery is greater than four times the spike concentration. See the LCS for accuracy.
DRO/RRO - Surrogate recoveries are outside controls due to dilution.

Client	SHANFBK	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Workorder	1066432	31-1-11343 Sunshine Bagel		

Sample ID		Client Sample ID
741607	**MSD**	**1343-111006-B13(1066432003MSD**

DRO - MS/MSD spike recoveries are outside controls. Sample recovery is greater than four times the spike concentration. See the LCS for accuracy.
DRO/RRO - Surrogate recoveries are outside controls due to dilution.

741611	**MS**	**1343-111006-B22(1066432005MS)**

PAHSIM - The MS/MSD recovery and RPD for most analytes are outside QC goals due to dilution.

741612	**MSD**	**1343-111006-B22(1066432005MSD**

PAHSIM - The MS/MSD recovery and RPD for most analytes are outside QC goals due to dilution.

742067	**MB**	**MB for HBN 180480 [MXX/18435]**

6020 - Cr was detected in the method blank greater than 1/2 of the PQL but less than PQL.

742997	**CCV**	**CCV for HBN 180666 [XMS/3859]**

PAHSIM - The CCV recovery for anthracene is outside QC goals(biased high). This analyte was not found above the PQL in the associated sample.

743041	**MB**	**MB for HBN 180680 [VXX/16292]**

GRO/BTEX - MB results for p&m-xylene are greater than one half of the the PQL but less than PQL.

SGS

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

Angela Miller
Shannon & Wilson-Fairbanks
2355 Hill Road
Fairbanks, AK 99709

Work Order:	1066432
	31-1-11343 Sunshine Bagel
Client:	Shannon & Wilson-Fairbanks
Report Date:	November 27, 2006

Released by:

Stephen C. Ede
Alaska Division Technical Director

Stephen C. Ede
2006.11.27
15:27:47 -09'00'

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 Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and 001582 for NELAP (RCRA methods: 1010/1020, 1311, 6000/7000, 9040/9045, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

If you have any questions regarding this report or if we can be of any other assistance, please contact 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

SGS Ref.#	1066432001	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 16:45
Client Sample ID	1343-111006-B11	**Received Date/Time**	11/14/2006 9:00
Matrix	Water (Surface, Eff., Ground)	**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
Volatile Fuels Department									
Gasoline Range Organics	ND	100	ug/L	AK101	A		11/21/06	11/21/06	HM
Benzene	ND	0.500	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Toluene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Ethylbenzene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
P & M -Xylene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
o-Xylene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Surrogates									
1,4-Difluorobenzene <surr>	93.7		%	SW8021B	A	74-120	11/21/06	11/21/06	HM
4-Bromofluorobenzene <surr>	112		%	AK101	A	50-150	11/21/06	11/21/06	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	702	313	ug/L	AK102	D		11/15/06	11/20/06	MCM
Surrogates									
5a Androstane <surr>	96.2		%	AK102	D	50-150	11/15/06	11/20/06	MCM

SGS

SGS Ref.#	1066432002	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 17:00
Client Sample ID	1343-111006-B12	**Received Date/Time**	11/14/2006 9:00
Matrix	Water (Surface, Eff., Ground)	**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
Volatile Fuels Department									
Gasoline Range Organics	109	100	ug/L	AK101	A		11/21/06	11/21/06	HM
Benzene	ND	0.500	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Toluene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Ethylbenzene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
P & M -Xylene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
o-Xylene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Surrogates									
1,4-Difluorobenzene <surr>	91.2		%	SW8021B	A	74-120	11/21/06	11/21/06	HM
4-Bromofluorobenzene <surr>	118		%	AK101	A	50-150	11/21/06	11/21/06	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	1120	321	ug/L	AK102	D		11/15/06	11/20/06	MCM
Surrogates									
5a Androstane <surr>	106		%	AK102	D	50-150	11/15/06	11/20/06	MCM

SGS

SGS Ref.#	1066432003	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 14:05
Client Sample ID	1343-111006-B13	**Received Date/Time**	11/14/2006 9:00
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

DRO - Surrogate is outside QC goals (biased high) due to hydrocarbon interference.

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

GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department										
Gasoline Range Organics	109		12.2	mg/Kg	AK101	A		11/10/06	11/22/06	HM
Benzene	ND		0.0609	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Toluene	ND		0.244	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Ethylbenzene	ND		0.244	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
P & M -Xylene	0.882		0.244	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
o-Xylene	0.616		0.244	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Surrogates										
1,4-Difluorobenzene <surr>	93.8			%	SW8021B	A	81-108	11/10/06	11/22/06	HM
4-Bromofluorobenzene <surr>	770	!		%	AK101	A	50-150	11/10/06	11/22/06	HM
Semivolatile Organic Fuels Department										
Diesel Range Organics	26800		1250	mg/Kg	AK102	B		11/15/06	11/17/06	JE
Surrogates										
5a Androstane <surr>	175	!		%	AK102	B	50-150	11/15/06	11/17/06	JE
Solids										
Total Solids	87.4			%	SM20 2540G	B			11/20/06	BNE

SGS

SGS Ref.#	1066432004	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 14:10
Client Sample ID	1343-111006-B14	**Received Date/Time**	11/14/2006 9:00
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

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

GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department										
Gasoline Range Organics	21.8		1.62	mg/Kg	AK101	A		11/10/06	11/22/06	HM
Benzene	ND		0.00809	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Toluene	ND		0.0324	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Ethylbenzene	ND		0.0324	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
P & M -Xylene	0.136		0.0324	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
o-Xylene	0.475		0.0324	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Surrogates										
1,4-Difluorobenzene <surr>	93			%	SW8021B	A	81-108	11/10/06	11/22/06	HM
4-Bromofluorobenzene <surr>	335	!		%	AK101	A	50-150	11/10/06	11/22/06	HM
Semivolatile Organic Fuels Department										
Diesel Range Organics	2540		114	mg/Kg	AK102	B		11/15/06	11/17/06	JE
Surrogates										
5a Androstane <surr>	100			%	AK102	B	50-150	11/15/06	11/17/06	JE
Solids										
Total Solids	86.2			%	SM20 2540G	B			11/20/06	BNE

SGS

SGS Ref.#	1066432005	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 14:40
Client Sample ID	1343-111006-B22	**Received Date/Time**	11/14/2006 9:00
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

RRO - Surrogate is outside QC goals (biased high) due to hydrocarbon interference.

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

GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department										
Mercury	ND		0.0439	mg/Kg	SW7471A	C		11/20/06	11/21/06	HKG
RCRA Metals										
Arsenic	11.3		1.09	mg/Kg	SW6020	B		11/17/06	11/20/06	TK
Barium	111		0.326	mg/Kg	SW6020	B		11/17/06	11/20/06	TK
Cadmium	0.373		0.217	mg/Kg	SW6020	B		11/17/06	11/20/06	TK
Chromium	18.8		0.434	mg/Kg	SW6020	B		11/17/06	11/20/06	TK
Lead	7.63		0.217	mg/Kg	SW6020	B		11/17/06	11/20/06	TK
Selenium	1.04		0.543	mg/Kg	SW6020	B		11/17/06	11/20/06	TK
Silver	ND		0.109	mg/Kg	SW6020	B		11/17/06	11/20/06	TK
Volatile Fuels Department										
Gasoline Range Organics	663		30.1	mg/Kg	AK101	A		11/10/06	11/22/06	HM
Benzene	ND		0.150	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Toluene	ND		0.602	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Ethylbenzene	2.06		0.602	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
P & M -Xylene	10.6		0.602	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
o-Xylene	35.2		0.602	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Surrogates										
1,4-Difluorobenzene <surr>	94.8			%	SW8021B	A	81-108	11/10/06	11/22/06	HM
4-Bromofluorobenzene <surr>	3420	!		%	AK101	A	50-150	11/10/06	11/22/06	HM
Semivolatile Organic Fuels Department										

SGS

SGS Ref.#	1066432005	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 14:40
Client Sample ID	1343-111006-B22	**Received Date/Time**	11/14/2006 9:00
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic Fuels Department										
Diesel Range Organics	18800		1090	mg/Kg	AK102	B		11/15/06	11/17/06	JE
Residual Range Organics	ND		1090	mg/Kg	AK103	B		11/15/06	11/17/06	JE
Surrogates										
5a Androstane <surr>	107			%	AK102	B	50-150	11/15/06	11/17/06	JE
n-Triacontane-d62 <surr>	156	!		%	AK103	B	50-150	11/15/06	11/17/06	JE
Polynuclear Aromatics GC/MS										
Acenaphthylene	ND		5.52	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
2-Methylnaphthalene	52.0		5.52	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Acenaphthene	ND		5.52	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Fluorene	ND		5.52	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Phenanthrene	6.69		5.52	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Anthracene	ND		5.52	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Fluoranthene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Pyrene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Benzo(a)Anthracene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Chrysene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Benzo[b]Fluoranthene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Benzo[a]pyrene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Indeno[1,2,3-c,d] pyrene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Dibenzo[a,h]anthracene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Benzo[g,h,i]perylene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Naphthalene	19.3		5.52	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
1-Methylnaphthalene	47.2		5.52	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Benzo[k]fluoranthene	ND		0.0552	mg/Kg	8270C SIMS	B		11/15/06	11/22/06	KWM
Surrogates										
Terphenyl-d14 <surr>	84.5			%	8270C SIMS	B	30-125	11/15/06	11/22/06	KWM

SGS

SGS Ref.#	1066432005
Client Name	Shannon & Wilson-Fairbanks
Project Name/#	31-1-11343 Sunshine Bagel
Client Sample ID	1343-111006-B22
Matrix	Soil/Solid

All Dates/Times are Alaska Standard Time

Printed Date/Time	11/27/2006 15:04
Collected Date/Time	11/10/2006 14:40
Received Date/Time	11/14/2006 9:00
Technical Director	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Solids									
Total Solids	90.4		%	SM20 2540G	B			11/20/06	BNE

SGS

SGS Ref.#	1066432006	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 14:45
Client Sample ID	1343-111006-B23	**Received Date/Time**	11/14/2006 9:00
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

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

GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department										
Gasoline Range Organics	419		27.5	mg/Kg	AK101	A		11/10/06	11/22/06	HM
Benzene	ND		0.137	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Toluene	ND		0.550	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Ethylbenzene	1.80		0.550	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
P & M -Xylene	2.56		0.550	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
o-Xylene	33.5		0.550	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Surrogates										
1,4-Difluorobenzene <surr>	88.1			%	SW8021B	A	81-108	11/10/06	11/22/06	HM
4-Bromofluorobenzene <surr>	2100	!		%	AK101	A	50-150	11/10/06	11/22/06	HM
Semivolatile Organic Fuels Department										
Diesel Range Organics	18100		1100	mg/Kg	AK102	B		11/15/06	11/17/06	JE
Surrogates										
5a Androstane <surr>	106			%	AK102	B	50-150	11/15/06	11/17/06	JE
Solids										
Total Solids	90.3			%	SM20 2540G	B			11/20/06	BNE

SGS

SGS Ref.#	1066432007	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 15:10
Client Sample ID	1343-111006-B32	**Received Date/Time**	11/14/2006 9:00
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

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

GRO/BTEX - BFB surrogate recovery is outside QC goals (biased high) due to hydrocarbon interference.

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department										
Gasoline Range Organics	74.0		3.57	mg/Kg	AK101	A		11/10/06	11/22/06	HM
Benzene	ND		0.0178	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Toluene	ND		0.0713	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Ethylbenzene	0.0778		0.0713	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
P & M -Xylene	0.963		0.0713	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
o-Xylene	3.64		0.0713	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Surrogates										
1,4-Difluorobenzene <surr>	90.3			%	SW8021B	A	81-108	11/10/06	11/22/06	HM
4-Bromofluorobenzene <surr>	357	!		%	AK101	A	50-150	11/10/06	11/22/06	HM
Semivolatile Organic Fuels Department										
Diesel Range Organics	9600		440	mg/Kg	AK102	B		11/15/06	11/17/06	JE
Surrogates										
5a Androstane <surr>	120			%	AK102	B	50-150	11/15/06	11/17/06	JE
Solids										
Total Solids	89.9			%	SM20 2540G	B			11/20/06	BNE

SGS

SGS Ref.#	1066432008	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 15:50
Client Sample ID	1343-111006-B44	**Received Date/Time**	11/14/2006 9:00
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	ND	1.69	mg/Kg	AK101	A		11/10/06	11/22/06	HM
Benzene	ND	0.00843	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Toluene	ND	0.0337	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Ethylbenzene	ND	0.0337	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
P & M -Xylene	ND	0.0337	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
o-Xylene	ND	0.0337	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Surrogates									
1,4-Difluorobenzene <surr>	96.4		%	SW8021B	A	81-108	11/10/06	11/22/06	HM
4-Bromofluorobenzene <surr>	73.5		%	AK101	A	50-150	11/10/06	11/22/06	HM
Semivolatile Organic Fuels Department									
Diesel Range Organics	ND	22.2	mg/Kg	AK102	B		11/15/06	11/16/06	JE
Surrogates									
5a Androstane <surr>	79.9		%	AK102	B	50-150	11/15/06	11/16/06	JE
Solids									
Total Solids	87.6		%	SM20 2540G	B			11/20/06	BNE

SGS

SGS Ref.#	1066432009
Client Name	Shannon & Wilson-Fairbanks
Project Name/#	31-1-11343 Sunshine Bagel
Client Sample ID	Trip Blank
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	11/27/2006 15:04
Collected Date/Time	11/10/2006 0:00
Received Date/Time	11/14/2006 9:00
Technical Director	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	ND	100	ug/L	AK101	A		11/21/06	11/21/06	HM
Benzene	ND	0.500	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Toluene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Ethylbenzene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
P & M -Xylene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
o-Xylene	ND	2.00	ug/L	SW8021B	A		11/21/06	11/21/06	HM
Surrogates									
1,4-Difluorobenzene <surr>	94.1		%	SW8021B	A	74-120	11/21/06	11/21/06	HM
4-Bromofluorobenzene <surr>	95.6		%	AK101	A	50-150	11/21/06	11/21/06	HM

SGS

SGS Ref.#	1066432010	**All Dates/Times are Alaska Standard Time**	
Client Name	Shannon & Wilson-Fairbanks	**Printed Date/Time**	11/27/2006 15:04
Project Name/#	31-1-11343 Sunshine Bagel	**Collected Date/Time**	11/10/2006 0:00
Client Sample ID	Trip Blank	**Received Date/Time**	11/14/2006 9:00
Matrix	Soil/Solid	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	ND	2.58	mg/Kg	AK101	A		11/10/06	11/22/06	HM
Benzene	ND	0.0129	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Toluene	ND	0.0517	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Ethylbenzene	ND	0.0517	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
P & M -Xylene	ND	0.0517	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
o-Xylene	ND	0.0517	mg/Kg	SW8021B	A		11/10/06	11/22/06	HM
Surrogates									
1,4-Difluorobenzene <surr>	94.4		%	SW8021B	A	81-108	11/10/06	11/22/06	HM
4-Bromofluorobenzene <surr>	95		%	AK101	A	50-150	11/10/06	11/22/06	HM
Solids									
Total Solids	100		%	SM20 2540G	A			11/20/06	BNE

SGS

SGS Ref.#	741428	Method Blank	**Printed Date/Time**		11/27/2006 15:04
Client Name	Shannon & Wilson-Fairbanks		**Prep**	**Batch**	XXX17573
Project Name/#	31-1-11343 Sunshine Bagel			**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)			**Date**	11/15/2006

QC results affect the following production samples:

1066432001, 1066432002

Parameter	Results	Reporting Control Limit	MDL	Units	Analysis Date
Semivolatile Organic Fuels Department					
Diesel Range Organics	ND	300	60.0	ug/L	11/20/06
Surrogates					
5a Androstane <surr>	94.5	60-120		%	11/20/06
Batch XFC7240					
Method AK102					
Instrument HP 5890 Series II FID SV D R					
Surrogates					
n-Triacontane-d62 <surr>	117	60-120		%	11/20/06
Batch XFC7240					
Method AK103					
Instrument HP 5890 Series II FID SV D R					

SGS

SGS Ref.#	741430 Method Blank		**Printed Date/Time**		11/27/2006 15:04
Client Name	Shannon & Wilson-Fairbanks		**Prep**	**Batch**	XXX17574
Project Name/#	31-1-11343 Sunshine Bagel			**Method**	SW3550B
Matrix	Soil Solid			**Date**	11/15/2006

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008

Parameter	Results	Reporting Control Limit	MDL	Units	Analysis Date
Semivolatile Organic Fuels Department					
Diesel Range Organics	2.00 J	19.7	1.97	mg/Kg	11/16/06
Surrogates					
5a Androstane <surr>	93.1	60-120		%	11/16/06
Batch XFC7237					
Method AK102					
Instrument HP 5890 Series II FID SV D R					
Residual Range Organics	3.96 J	19.7	1.97	mg/Kg	11/16/06
Surrogates					
n-Triacontane-d62 <surr>	112	60-120		%	11/16/06
Batch XFC7237					
Method AK103					
Instrument HP 5890 Series II FID SV D R					

SGS

SGS Ref.#	741432 Method Blank		**Printed Date/Time**		11/27/2006 15:04
Client Name	Shannon & Wilson-Fairbanks		**Prep**	**Batch**	XXX17575
Project Name/#	31-1-11343 Sunshine Bagel			**Method**	SW3550B
Matrix	Soil Solid			**Date**	11/15/2006

QC results affect the following production samples:

1066432005

Parameter	Results		Reporting Control Limit	MDL	Units	Analysis Date
Polynuclear Aromatics GC/MS						
Acenaphthylene	ND		0.00498	0.00149	mg/Kg	11/21/06
2-Methylnaphthalene	0.0103	*	0.00498	0.00149	mg/Kg	11/21/06
Acenaphthene	ND		0.00498	0.00149	mg/Kg	11/21/06
Fluorene	ND		0.00498	0.00149	mg/Kg	11/21/06
Phenanthrene	ND		0.00498	0.00149	mg/Kg	11/21/06
Anthracene	ND		0.00498	0.00149	mg/Kg	11/21/06
Fluoranthene	ND		0.00498	0.00149	mg/Kg	11/21/06
Pyrene	ND		0.00498	0.00149	mg/Kg	11/21/06
Benzo(a)Anthracene	ND		0.00498	0.00149	mg/Kg	11/21/06
Chrysene	ND		0.00498	0.00149	mg/Kg	11/21/06
Benzo[b]Fluoranthene	ND		0.00498	0.00149	mg/Kg	11/21/06
Benzo[a]pyrene	ND		0.00498	0.00149	mg/Kg	11/21/06
Indeno[1,2,3-c,d] pyrene	ND		0.00498	0.00149	mg/Kg	11/21/06
Dibenzo[a,h]anthracene	ND		0.00498	0.00149	mg/Kg	11/21/06
Benzo[g,h,i]perylene	ND		0.00498	0.00149	mg/Kg	11/21/06
Naphthalene	0.00752	*	0.00498	0.00149	mg/Kg	11/21/06
1-Methylnaphthalene	0.00874	*	0.00498	0.00149	mg/Kg	11/21/06
Benzo[k]fluoranthene	ND		0.00498	0.00149	mg/Kg	11/21/06
Surrogates						
Terphenyl-d14 <surr>	95.2		30-125		%	11/21/06

Batch XMS3858
Method 8270C SIMS
Instrument HP 5890 Series II MS2 SVOA

SGS

SGS Ref.#	742067 Method Blank	**Printed Date/Time**	11/27/2006 15:04
Client Name	Shannon & Wilson-Fairbanks	**Prep Batch**	MXX18435
Project Name/#	31-1-11343 Sunshine Bagel	**Method**	SW3050B
Matrix	Soil/Solid	**Date**	11/17/2006

QC results affect the following production samples:

1066432005

Parameter	Results	Reporting Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Arsenic	ND	1.00	0.310	mg/Kg	11/20/06
Barium	ND	0.300	0.0940	mg/Kg	11/20/06
Cadmium	ND	0.200	0.0620	mg/Kg	11/20/06
Chromium	0.235 J	0.400	0.120	mg/Kg	11/20/06
Lead	ND	0.200	0.0620	mg/Kg	11/20/06
Selenium	ND	0.500	0.150	mg/Kg	11/26/06
Silver	ND	0.100	0.0310	mg/Kg	11/20/06

Batch MMS4562
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS

SGS Ref.#	742199	Method Blank	**Printed Date/Time**	11/27/2006 15:04
Client Name	Shannon & Wilson-Fairbanks		**Prep Batch**	
Project Name/#	31-1-11343 Sunshine Bagel		**Method**	
Matrix	Soil/Solid		**Date**	

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008, 1066432010

Parameter	Results	Reporting Control Limit	MDL	Units	Analysis Date
Solids					
Total Solids	99.9			%	11/20/06
Batch SPT7081					
Method SM20 2540G					
Instrument					

SGS

SGS Ref.#	742645 Method Blank	**Printed Date/Time**	11/27/2006 15:04
Client Name	Shannon & Wilson-Fairbanks	**Prep Batch**	MXX18444
Project Name/#	31-1-11343 Sunshine Bagel	**Method**	METHOD
Matrix	Soil/Solid	**Date**	11/20/2006

QC results affect the following production samples:

1066432005

Parameter	Results	Reporting Control Limit	MDL	Units	Analysis Date
Metals Department					
Mercury	ND	0.0400	0.0120	mg/Kg	11/21/06
Batch MCV3542					
Method SW7471A					
Instrument PSA Millennium mercury AA					

SGS

SGS Ref.#	742773	Method Blank	**Printed Date/Time**		11/27/2006 15:04
Client Name	Shannon & Wilson-Fairbanks		**Prep**	**Batch**	VXX16288
Project Name/#	31-1-11343 Sunshine Bagel			**Method**	SW5030B
Matrix	Water (Surface, Eff., Ground)			**Date**	11/21/2006

QC results affect the following production samples:

1066432001, 1066432002, 1066432009

Parameter	Results	Reporting Control Limit	MDL	Units	Analysis Date
Volatile Fuels Department					
Gasoline Range Organics	10.5 J	100	10.0	ug/L	11/21/06
Surrogates					
4-Bromofluorobenzene <surr>	112	50-150		%	11/21/06
Batch VFC8196					
Method AK101					
Instrument HP 5890 Series II PID+FID VCA					
Benzene	ND	0.500	0.150	ug/L	11/21/06
Toluene	ND	2.00	0.620	ug/L	11/21/06
Ethylbenzene	ND	2.00	0.620	ug/L	11/21/06
P & M -Xylene	0.684 J	2.00	0.620	ug/L	11/21/06
o-Xylene	ND	2.00	0.620	ug/L	11/21/06
Surrogates					
1,4-Difluorobenzene <surr>	105	74-120		%	11/21/06
Batch VFC8196					
Method SW8021B					
Instrument HP 5890 Series II PID+FID VCA					

SGS

SGS Ref.#	743041 Method Blank		**Printed Date/Time**		11/27/2006 15:04
Client Name	Shannon & Wilson-Fairbanks		**Prep**	**Batch**	VXX16292
Project Name/#	31-1-11343 Sunshine Bagel			**Method**	AK101
Matrix	Soil/Solid			**Date**	11/22/2006

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008, 1066432010

Parameter	Results	Reporting Control Limit	MDL	Units	Analysis Date
Volatile Fuels Department					
Gasoline Range Organics	ND	2.50	0.500	mg/Kg	11/22/06
Surrogates					
4-Bromofluorobenzene <surr>	99.5	60-120		%	11/22/06
Batch VFC8199					
Method AK101					
Instrument HP 5890 Series II PID+FID VCA					
Benzene	0.00443J	0.0125	0.00400	mg/Kg	11/22/06
Toluene	0.0241J	0.0500	0.0150	mg/Kg	11/22/06
Ethylbenzene	ND	0.0500	0.0150	mg/Kg	11/22/06
P & M -Xylene	0.0319J	0.0500	0.0150	mg/Kg	11/22/06
o-Xylene	ND	0.0500	0.0150	mg/Kg	11/22/06
Surrogates					
1,4-Difluorobenzene <surr>	99.8	81-108		%	11/22/06
Batch VFC8199					
Method SW8021B					
Instrument HP 5890 Series II PID+FID VCA					

SGS

SGS Ref.#	742534 Duplicate	**Printed Date/Time**	11 27 2006 15:04
Client Name	Shannon & Wilson-Fairbanks	**Prep Batch**	
Project Name/#	31-1-11343 Sunshine Bagel	**Method**	
Original	1066432005	**Date**	
Matrix	Soil/Solid		

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008, 1066432010

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Solids						
Total Solids	90.4	90.2	%	0	(< 5)	11/20/2006
Batch SPT7081						
Method SM20 2540G						
Instrument						

SGS

SGS Ref.#	741429 Lab Control Sample	**Printed Date/Time**		11/27/2006	15:04
		Prep	**Batch**	XXX17573	
Client Name	Shannon & Wilson-Fairbanks		**Method**	SW3520C	
Project Name/#	31-1-11343 Sunshine Bagel		**Date**	11/15/2006	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1066432001, 1066432002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic Fuels Department								
Diesel Range Organics	LCS	1080	108	(75-125)			1000 ug/L	11/20/2006
Surrogates								
5a Androstane <surr>	LCS		90	(60-120)				11/20/2006

Batch XFC7240
Method AK102
Instrument HP 5890 Series II FID SV D R

Surrogates								
n-Triacontane-d62 <surr>	LCS		89	(60-120)				11/20/2006

Batch XFC7240
Method AK103
Instrument HP 5890 Series II FID SV D R

SGS

SGS Ref.#	741431	Lab Control Sample	**Printed Date/Time**	11/27/2006	15:04
			Prep Batch	XXX17574	
Client Name	Shannon & Wilson-Fairbanks		**Method**	SW3550B	
Project Name/#	31-1-11343 Sunshine Bagel		**Date**	11/15/2006	
Matrix	Soil Solid				

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008

Parameter		QC Results	Pct Recov	LCS LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic Fuels Department								
Diesel Range Organics	LCS	31.8	96	(75-125)			33.1 mg/Kg	11/16/2006
Surrogates								
5a Androstane <surr>	LCS		76	(60-120)				11/16/2006
Batch XFC7237 **Method** AK102 **Instrument** HP 5890 Series II FID SV D R								
Residual Range Organics	LCS	30.4	92	(60-120)			33.1 mg/Kg	11/16/2006
Surrogates								
n-Triacontane-d62 <surr>	LCS		80	(60-120)				11/16/2006
Batch XFC7237 **Method** AK103 **Instrument** HP 5890 Series II FID SV D R								

SGS

SGS Ref.#	741433 Lab Control Sample	**Printed Date/Time**	11/27/2006 15:04
		Prep Batch	XXX17575
Client Name	Shannon & Wilson-Fairbanks	**Method**	SW3550B
Project Name/#	31-1-11343 Sunshine Bagel	**Date**	11/15/2006
Matrix	Soil/Solid		

QC results affect the following production samples:

1066432005

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Polynuclear Aromatics GC/MS

SGS

SGS Ref.#	741433 Lab Control Sample	**Printed Date/Time**		11/27/2006	15:04
		Prep	**Batch**	XXX17575	
Client Name	Shannon & Wilson-Fairbanks		**Method**	SW3550B	
Project Name/#	31-1-11343 Sunshine Bagel		**Date**	11/15/2006	
Matrix	Soil/Solid				

Parameter		QC Results	Pct Recov	LCS LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polynuclear Aromatics GC/MS								
Acenaphthylene	LCS	0.0142	64	(46-97)			0.0221 mg/Kg	11/21/2006
2-Methylnaphthalene	LCS	0.0160	72	(43-95)			0.0221 mg/Kg	11/21/2006
Acenaphthene	LCS	0.0148	67	(50-92)			0.0221 mg/Kg	11/21/2006
Fluorene	LCS	0.0156	71	(53-95)			0.0221 mg/Kg	11/21/2006
Phenanthrene	LCS	0.0178	80	(56-104)			0.0221 mg/Kg	11/21/2006
Anthracene	LCS	0.0150	68	(47-88)			0.0221 mg/Kg	11/21/2006
Fluoranthene	LCS	0.0152	69	(60-108)			0.0221 mg/Kg	11/21/2006
Pyrene	LCS	0.0153	69	(58-109)			0.0221 mg/Kg	11/21/2006
Benzo(a)Anthracene	LCS	0.0169	77	(50-110)			0.0221 mg/Kg	11/21/2006
Chrysene	LCS	0.0169	77	(60-102)			0.0221 mg/Kg	11/21/2006
Benzo[b]Fluoranthene	LCS	0.0175	79	(47-115)			0.0221 mg/Kg	11/21/2006
Benzo[a]pyrene	LCS	0.0128	58	(29-98)			0.0221 mg/Kg	11/21/2006
Indeno[1,2,3-c,d] pyrene	LCS	0.0172	78	(52-113)			0.0221 mg/Kg	11/21/2006
Dibenzo[a,h]anthracene	LCS	0.0170	77	(47-116)			0.0221 mg/Kg	11/21/2006
Benzo[g,h,i]perylene	LCS	0.0176	80	(56-105)			0.0221 mg/Kg	11/21/2006
Naphthalene	LCS	0.0152	69	(44-93)			0.0221 mg/Kg	11/21/2006
1-Methylnaphthalene	LCS	0.0164	74	(45-96)			0.0221 mg/Kg	11/21/2006
Benzo[k]fluoranthene	LCS	0.0169	77	(64-103)			0.0221 mg/Kg	11/21/2006
Surrogates								
Terphenyl-d14 <surr>	LCS		83	(30-125)				11/21/2006

SGS

SGS Ref.#	741433 Lab Control Sample	**Printed Date/Time**	11/27/2006 15:04
		Prep Batch	XXX17575
Client Name	Shannon & Wilson-Fairbanks	**Method**	SW3550B
Project Name/#	31-1-11343 Sunshine Bagel	**Date**	11/15/2006
Matrix	Soil/Solid		

Parameter	QC Results	Pct Recov	LCS LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Polynuclear Aromatics GC/MS

Batch	XMS3858
Method	8270C SIMS
Instrument	HP 5890 Series II MS2 SVOA

SGS

SGS Ref.#	742068 Lab Control Sample	**Printed Date/Time**	11/27/2006 15:04
		Prep Batch	MXX18435
Client Name	Shannon & Wilson-Fairbanks	**Method**	SW3050B
Project Name/#	31-1-11343 Sunshine Bagel	**Date**	11/17/2006
Matrix	Soil Solid		

QC results affect the following production samples:

1066432005

Parameter		QC Results	Pct Recov	LCS LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Arsenic	LCS	48.3	97	(80-120)			50 mg/Kg	11/20/2006
Barium	LCS	47.8	96	(80-120)			50 mg/Kg	11/20/2006
Cadmium	LCS	48.6	97	(80-120)			50 mg/Kg	11/20/2006
Chromium	LCS	51.0	102	(80-120)			50 mg/Kg	11/20/2006
Lead	LCS	48.5	97	(80-120)			50 mg/Kg	11/20/2006
Selenium	LCS	47.1	94	(80-120)			50 mg/Kg	11/20/2006
Silver	LCS	5.38	108	(80-120)			5 mg/Kg	11/20/2006

Batch MMS4562
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS

SGS Ref.#	742646 Lab Control Sample	**Printed Date/Time**	11 27 2006 15:04
		Prep Batch	MXX18444
Client Name	Shannon & Wilson-Fairbanks	**Method**	METHOD
Project Name/#	31-1-11343 Sunshine Bagel	**Date**	11/20/2006
Matrix	Soil Solid		

QC results affect the following production samples:

1066432005

Parameter		QC Results	Pct Recov	LCS LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	0.162	97	(83-118)			0.167 mg/Kg	11/21/2006

Batch MCV3542
Method SW7471A
Instrument PSA Millennium mercury AA

SGS

SGS Ref.#	742774	Lab Control Sample	**Printed Date/Time**	11/27/2006	15:04
	742775	Lab Control Sample Duplicate	**Prep Batch**	VXX16288	
Client Name	Shannon & Wilson-Fairbanks		**Method**	SW5030B	
Project Name/#	31-1-11343 Sunshine Bagel		**Date**	11/21/2006	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1066432001, 1066432002, 1066432009

Parameter		QC Results	Pct Recov	LCS LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Fuels Department								
Benzene	LCS	48.4	97	(79-115)			50 ug/L	11/21/2006
	LCSD	48.6	97		0	(< 20)	50 ug/L	11/21/2006
Toluene	LCS	49.8	100	(85-117)			50 ug/L	11/21/2006
	LCSD	52.4	105		5	(< 20)	50 ug/L	11/21/2006
Ethylbenzene	LCS	52.1	104	(81-120)			50 ug/L	11/21/2006
	LCSD	52.6	105		1	(< 20)	50 ug/L	11/21/2006
P & M -Xylene	LCS	105	105	(87-119)			100 ug/L	11/21/2006
	LCSD	104	104		1	(< 20)	100 ug/L	11/21/2006
o-Xylene	LCS	50.6	101	(85-114)			50 ug/L	11/21/2006
	LCSD	50.0	100		1	(< 20)	50 ug/L	11/21/2006
Surrogates								
1,4-Difluorobenzene <surr>	LCS		101	(74-120)				11/21/2006
	LCSD		96		5			11/21/2006

Batch VFC8196
Method SW8021B
Instrument HP 5890 Series II PID+FID VCA

SGS

SGS Ref.#	742776	Lab Control Sample	**Printed Date/Time**	11/27/2006	15:04
	742777	Lab Control Sample Duplicate	**Prep Batch**	VXX16288	
Client Name	Shannon & Wilson-Fairbanks		**Method**	SW5030B	
Project Name/#	31-1-11343 Sunshine Bagel		**Date**	11/21/2006	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1066432001, 1066432002, 1066432009

Parameter		QC Results	Pct Recov	LCS LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Fuels Department								
Gasoline Range Organics	LCS	419	93	(60-120)			450 ug/L	11/21/2006
	LCSD	403	90		4	(< 20)	450 ug/L	11/21/2006
Surrogates								
4-Bromofluorobenzene <surr>	LCS		110	(50-150)				11/21/2006
	LCSD		106		3			11/21/2006

Batch VFC8196
Method AK101
Instrument HP 5890 Series II PID+FID VCA

SGS

SGS Ref.#	743042 Lab Control Sample	**Printed Date/Time**		11/27/2006	15:04
		Prep	**Batch**	VXX16292	
Client Name	Shannon & Wilson-Fairbanks		**Method**	AK101	
Project Name/#	31-1-11343 Sunshine Bagel		**Date**	11/22/2006	
Matrix	Soil/Solid				

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008, 1066432010

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Fuels Department								
Benzene	LCS	1.14	91	(84-115)			1.25 mg/Kg	11/22/2006
Toluene	LCS	1.18	94	(90-119)			1.25 mg/Kg	11/22/2006
Ethylbenzene	LCS	1.23	98	(88-122)			1.25 mg/Kg	11/22/2006
P & M -Xylene	LCS	2.46	99	(91-121)			2.50 mg/Kg	11/22/2006
o-Xylene	LCS	1.17	94	(88-114)			1.25 mg/Kg	11/22/2006
Surrogates								
1,4-Difluorobenzene <surr>	LCS		94	(81-108)				11/22/2006

Batch VFC8199
Method SW8021B
Instrument HP 5890 Series II PID+FID VCA

SGS

SGS Ref.#	743043 Lab Control Sample	**Printed Date/Time**		11/27/2006	15:04
		Prep	**Batch**	VXX16292	
Client Name	Shannon & Wilson-Fairbanks		**Method**	AK101	
Project Name/#	31-1-11343 Sunshine Bagel		**Date**	11/22/2006	
Matrix	Soil/Solid				

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008, 1066432010

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Fuels Department								
Gasoline Range Organics	LCS	10.4	93	(60-120)			11.3 mg/Kg	11/22/2006
Surrogates								
4-Bromofluorobenzene <surr>	LCS		108	(60-120)				11/22/2006

Batch VFC8199
Method AK101
Instrument HP 5890 Series II PID+FID VCA

SGS

SGS Ref.#	741606	Matrix Spike	**Printed Date/Time**		11/27/2006 15:04
	741607	Matrix Spike Duplicate	**Prep**	**Batch**	XXX17574
				Method	Sonication Extraction Soil AK1
				Date	11/15/2006
Original	742393				
Matrix	Soil/Solid				

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic Fuels Department										
Diesel Range Organics		MS	23400	20400	-9,360*	(60-140)			32.9 mg/Kg	11/17/2006
		MSD		22400	-3,150*		10	(< 50)	32.9 mg/Kg	11/17/2006
Surrogates										
5a Androstane <surr>		MS		5.97	181*	(50-150)				11/17/2006
		MSD		6.31	192*		6			11/17/2006
Batch	XFC7238									
Method	AK102									
Instrument	HP 5890 Series II FID SV D R									
Residual Range Organics		MS	ND	359	1,090*	(60-140)			32.9 mg/Kg	11/17/2006
		MSD		370	1,130*		3	(< 50)	32.9 mg/Kg	11/17/2006
Surrogates										
n-Triacontane-d62 <surr>		MS		9.7	294*	(50-150)				11/17/2006
		MSD		10.7	327*		10			11/17/2006
Batch	XFC7238									
Method	AK103									
Instrument	HP 5890 Series II FID SV D R									

SGS

SGS Ref.#	741611	Matrix Spike	**Printed Date/Time**		11/27/2006 15:04
	741612	Matrix Spike Duplicate	**Prep**	**Batch**	XXX17575
				Method	Sonication Extraction Soil 8270
				Date	11/15/2006
Original	1066432005				
Matrix	Soil/Solid				

QC results affect the following production samples:

1066432005

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Polynuclear Aromatics GC/MS

SGS

SGS Ref.#	741611	Matrix Spike	**Printed Date/Time**	11/27/2006 15:04
	741612	Matrix Spike Duplicate	**Prep Batch**	XXX17575
			Method	Sonication Extraction Soil 8270
			Date	11/15/2006
Original	1066432005			
Matrix	Soil Solid			

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polynuclear Aromatics GC/MS									
Acenaphthylene	MS	ND	0	0*	(46-97)			0.024 mg/Kg	11/22/2006
	MSD		0	0*		0	(< 30)	0.024 mg/Kg	11/22/2006
2-Methylnaphthalene	MS	52.0	64.2	50,200*	(43-95)			0.024 mg/Kg	11/22/2006
	MSD		61.2	37,500*		5	(< 30)	0.024 mg/Kg	11/22/2006
Acenaphthene	MS	ND	0	0*	(50-92)			0.024 mg/Kg	11/22/2006
	MSD		0	0*		0	(< 30)	0.024 mg/Kg	11/22/2006
Fluorene	MS	ND	5.4	22,400*	(53-95)			0.024 mg/Kg	11/22/2006
	MSD		4.37	17,900*		21	(< 30)	0.024 mg/Kg	11/22/2006
Phenanthrene	MS	6.69	8.23	6,380*	(56-104)			0.024 mg/Kg	11/22/2006
	MSD		7.48	3,220*		10	(< 30)	0.024 mg/Kg	11/22/2006
Anthracene	MS	ND	0	0*	(47-88)			0.024 mg/Kg	11/22/2006
	MSD		0	0*		0	(< 30)	0.024 mg/Kg	11/22/2006
Fluoranthene	MS	ND	0.007	28*	(60-108)			0.024 mg/Kg	11/22/2006
	MSD		0.04	166*		143 *	(< 30)	0.024 mg/Kg	11/22/2006
Pyrene	MS	ND	0.012	51*	(58-109)			0.024 mg/Kg	11/22/2006
	MSD		0.037	152*		100 *	(< 30)	0.024 mg/Kg	11/22/2006
Benzo(a)Anthracene	MS	ND	0.017	70	(50-110)			0.024 mg/Kg	11/22/2006
	MSD		0.017	72		4	(< 30)	0.024 mg/Kg	11/22/2006
Chrysene	MS	ND	0.019	79	(60-102)			0.024 mg/Kg	11/22/2006
	MSD		0.02	83		7	(< 30)	0.024 mg/Kg	11/22/2006
Benzo[b]Fluoranthene	MS	ND	0.013	54	(47-115)			0.024 mg/Kg	11/22/2006
	MSD		0.014	58		9	(< 30)	0.024 mg/Kg	11/22/2006
Benzo[a]pyrene	MS	ND	0.013	56	(29-98)			0.024 mg/Kg	11/22/2006
	MSD		0.014	57		3	(< 30)	0.024 mg/Kg	11/22/2006
Indeno[1,2,3-c,d] pyrene	MS	ND	0.012	48*	(52-113)			0.024 mg/Kg	11/22/2006
	MSD		0.012	50*		7	(< 30)	0.024 mg/Kg	11/22/2006
Dibenzo[a,h]anthracene	MS	ND	0.012	51	(47-116)			0.024 mg/Kg	11/22/2006
	MSD		0.013	53		4	(< 30)	0.024 mg/Kg	11/22/2006
Benzo[g,h,i]perylene	MS	ND	0.012	49*	(56-105)			0.024 mg/Kg	11/22/2006
	MSD		0.013	53*		8	(< 30)	0.024 mg/Kg	11/22/2006
Naphthalene	MS	19.3	24	19,400*	(44-93)			0.024 mg/Kg	11/22/2006
	MSD		22.7	13,800*		6	(< 30)	0.024 mg/Kg	11/22/2006
1-Methylnaphthalene	MS	47.2	58.2	45,700*	(45-96)			0.024 mg/Kg	11/22/2006
	MSD		55.1	32,500*		5	(< 30)	0.024 mg/Kg	11/22/2006
Benzo[k]fluoranthene	MS	ND	0.015	61*	(64-103)			0.024 mg/Kg	11/22/2006
	MSD		0.016	65		7	(< 30)	0.024 mg/Kg	11/22/2006
Surrogates									
Terphenyl-d14 <surr>	MS		0.019	80	(30-125)				11/22/2006
	MSD		0.021	86		8			11/22/2006

SGS

SGS Ref.#	741611	Matrix Spike	Printed Date/Time		11/27/2006 15:04
	741612	Matrix Spike Duplicate	Prep	Batch	XXX17575
				Method	Sonication Extraction Soil 8270
				Date	11/15/2006
Original	1066432005				
Matrix	Soil/Solid				

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Polynuclear Aromatics GC/MS

Batch	XMS3859
Method	8270C SIMS
Instrument	HP 5890 Series II MS2 SVOA

SGS

SGS Ref.#	741613	Matrix Spike	**Printed Date/Time**	11/27/2006 15:04
	741614	Matrix Spike Duplicate	**Prep Batch**	XXX17573
			Method	Continuous Liq Extra. AK102/1
			Date	11/15/2006
Original	1066783004			
Matrix	Water (Surface, Eff., Ground)			

QC results affect the following production samples:

1066432001, 1066432002

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic Fuels Department										
Diesel Range Organics		MS	162J	1060	95	(75-125)			943	ug/L 11/20/2006
		MSD		1230	114		15	(< 30)	943	ug/L 11/20/2006
Surrogates										
5a Androstane <surr>		MS		75.9	80	(50-150)				11/20/2006
		MSD		85.3	91		12			11/20/2006

Batch XFC7240
Method AK102
Instrument HP 5890 Series II FID SV D R

Surrogates										
n-Triacontane-d62 <surr>		MS		79.3	84	(50-150)				11/20/2006
		MSD		88.5	94		11			11/20/2006

Batch XFC7240
Method AK103
Instrument HP 5890 Series II FID SV D R

SGS

SGS Ref.#	742069	Matrix Spike	**Printed Date/Time**	11/27/2006 15:04
	742070	Matrix Spike Duplicate	**Prep Batch**	MXX18435
			Method	Soils Solids Digest for Metals b
			Date	11/17/2006
Original	1066432005			
Matrix	Soil/Solid			

QC results affect the following production samples:

1066432005

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS										
Arsenic		MS	11.3	63.2	95	(80-120)			54.5 mg/Kg	11/20/2006
		MSD		60.3	91		5	(< 20)	53.8 mg/Kg	11/20/2006
Barium		MS	111	167	103	(80-120)			54.5 mg/Kg	11/20/2006
		MSD		157	85		7	(< 20)	53.8 mg/Kg	11/20/2006
Cadmium		MS	0.373	55.5	101	(80-120)			54.5 mg/Kg	11/20/2006
		MSD		51.1	94		8	(< 20)	53.8 mg/Kg	11/20/2006
Chromium		MS	18.8	77.1	107	(80-120)			54.5 mg/Kg	11/20/2006
		MSD		72.6	100		6	(< 20)	53.8 mg/Kg	11/20/2006
Lead		MS	7.63	57.9	92	(80-120)			54.5 mg/Kg	11/20/2006
		MSD		53.7	86		8	(< 20)	53.8 mg/Kg	11/20/2006
Selenium		MS	1.04	52.7	95	(80-120)			54.5 mg/Kg	11/20/2006
		MSD		49.4	90		6	(< 20)	53.8 mg/Kg	11/20/2006
Silver		MS	ND	5.98	110	(80-120)			5.45 mg/Kg	11/20/2006
		MSD		5.75	107		4	(< 20)	5.38 mg/Kg	11/20/2006

Batch MMS4562
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS

SGS Ref.#	742647	Matrix Spike	**Printed Date/Time**	11/27/2006 15:04
	742648	Matrix Spike Duplicate	**Prep Batch**	MXX18444
			Method	Digestion Mercury (S)
			Date	11/20/2006
Original	1066432005			
Matrix	Soil/Solid			

QC results affect the following production samples:

1066432005

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department										
Mercury		MS	ND	0.376	103	(83-118)			0.366	mg/Kg 11/21/2006
		MSD		0.35	96		7	(< 20)	0.365	mg/Kg 11/21/2006

Batch MCV3542
Method SW7471A
Instrument PSA Millennium mercury AA

SGS

SGS Ref.#	743044	Matrix Spike	**Printed Date/Time**		11/27/2006 15:04
	743045	Matrix Spike Duplicate	**Prep**	**Batch**	VXX16292
				Method	AK101 Extraction (S)
				Date	11/22/2006
Original	1066429001				
Matrix	Soil/Solid				

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008, 1066432010

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Fuels Department										
Benzene	MS	ND		1.89	91	(84-115)			2.09 mg/Kg	11/22/2006
	MSD			1.87	89		2	(< 20)	2.09 mg/Kg	11/22/2006
Toluene	MS	ND		1.97	94	(90-119)			2.09 mg/Kg	11/22/2006
	MSD			1.98	95		0	(< 20)	2.09 mg/Kg	11/22/2006
Ethylbenzene	MS	ND		2.05	98	(88-122)			2.09 mg/Kg	11/22/2006
	MSD			2.05	98		0	(< 20)	2.09 mg/Kg	11/22/2006
P & M -Xylene	MS	ND		4.1	98	(91-121)			4.18 mg/Kg	11/22/2006
	MSD			4.09	98		1	(< 20)	4.18 mg/Kg	11/22/2006
o-Xylene	MS	ND		1.97	94	(88-114)			2.09 mg/Kg	11/22/2006
	MSD			2.01	96		2	(< 20)	2.09 mg/Kg	11/22/2006
Surrogates										
1,4-Difluorobenzene <surr>	MS			1.92	92	(81-108)				11/22/2006
	MSD			1.85	89		4			11/22/2006

Batch VFC8199
Method SW8021B
Instrument HP 5890 Series II PID+FID VCA

SGS

SGS Ref.#	743046	Matrix Spike	**Printed Date/Time**	11/27/2006 15:04
	743047	Matrix Spike Duplicate	**Prep Batch**	VXX16292
			Method	AK101 Extraction (S)
			Date	11/22/2006
Original	1066429001			
Matrix	Soil/Solid			

QC results affect the following production samples:

1066432003, 1066432004, 1066432005, 1066432006, 1066432007, 1066432008, 1066432010

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Fuels Department										
Gasoline Range Organics		MS	ND	17.1	91	(60-120)			18.8 mg/Kg	11/22/2006
		MSD		16.9	90		1	(< 20)	18.8 mg/Kg	11/22/2006
Surrogates										
4-Bromofluorobenzene <surr>		MS		1.88	90	(50-150)				11/22/2006
		MSD		1.81	87		4			11/22/2006

Batch VFC8199
Method AK101
Instrument HP 5890 Series II PID+FID VCA

1066432

Shannon & Wilson, Inc.

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

1150 Olive Blvd., Suite 276
St. Louis, MO 63141
(314) 872-8170

2355 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 1
Laboratory SGS
Attn: Sunny

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

Sample Identity	Lab No.	Time	Date Sampled 2006	Comp.	Grab	GRO/BTEX AK101 8021	DRO AK102	RRO AK103	PAH 8270 SIM	RCRA Metals 6000		Total Number of Containers	Remarks/Matrix
1343-111006-B11	1 A-E	4:45	11/10		X	X	X					5	Water
1343-111006-B12	2 ↓	5:00	↓		X	X	X					5	Water
1343-111006-B13	3 A-B	2:05			X	X	X					2	SOIL
1343-111006-B14	4 ↓	2:10			X	X	X					2	SOIL
1343-111006-B22	5 A-C	2:40			X	X	X	X	X	X		3	SOIL
1343-111006-B23	6 A-B	2:45			X	X	X					2	SOIL
1343-111006-B32	7	3:10			X	X	X					2	SOIL
1343-111006-B44	8 ↓	3:50	↓		X	X	X					2	SOIL
Trip Blank	9 A-C					X						3	Water
Trip Blank	10 A					X						1	Soil

Project Information	
Project Number	31-1-11343
Project Name	Sunshine Bowl
Contact	Angela Miller
Ongoing Project?	Yes ☐ No ☒
Sampler	Angela Miller

Sample Receipt	
Total Number of Containers	27
COC Seals/Intact? Y/N/NA	N/NA
Received Good Cond./Cold	Y/Y
Delivery Method: (attach shipping bill, if any)	hand

	Relinquished By: 1.	Relinquished By: 2.	Relinquished By: 3.
Signature	[signature]	Sunny Castleberry	
Time	11:50	1640	
Printed Name	Angela Miller	Sunny Castleberry	
Date	11/13/06	11/13/06	
Company	S&W	SGS	

	Received By: 1.	Received By: 2.	Received By: 3.
Signature	Sunny Castleberry		[signature]
Time	1150		0900
Printed Name	Sunny Castleberry		J. Johnson
Date	11/13/06		11-14-06
Company	SGS		SGS

Instructions

Requested Turn Around Time: Standard

Special Instructions:

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

F-19-91/UR

SGS

SAMPLE RECEIPT FORM

SGS WO#: 1066432

Yes	No	NA		
___	X	___	Are samples **RUSH**, priority, or *w/n 72 hrs.* of **hold time**?	**Due Date:** 11/29/06
___	___	X	If yes have you done *e-mail notification*?	**Received Date:** 11/13/06
___	X	___	Are samples *within 24 hrs.* of **hold time** or **due date**?	**Received Time:** 1150
___	___	X	If yes, have you *spoken with* Supervisor?	Is **date/time conversion** necessary? ___
___	___	X	Archiving bottles – if req., are they properly marked?	# of hours to AK Local Time: ___
___	___	X	Are there any **problems**? PM Notified? ___	**Thermometer ID:** Longstem B
X	___	___	Were samples preserved correctly and pH verified?	

Cooler ID	Temp Blank	Cooler Temp
1	5.8 °C	5.3 °C
	°C	°C
	°C	°C
	°C	°C
	°C	°C

*Temperature readings include thermometer correction factors

___	___	X	If this is for PWS, provide **PWSID.** ___
___	___	X	Will courier charges apply?
___	___	X	Method of payment? ___
X	___	___	Data package required? (Level: 1 / 2 / 3 / 4)
			Notes: ___
___	X	___	Is this a DoD project? (USACE, Navy, AFCEE)

Delivery method (circle all that apply): Client / Alert Courier / UPS / FedEx / USPS / AA Goldstreak / NAC / ERA / PenAir / Carlile Lynden / SGS / Other: ___

Airbill # ___

Additional Sample Remarks: *(√ if applicable)*

___ Extra Sample Volume?
___ Limited Sample Volume?
___ Field preserved for volatiles?
___ Field-filtered for dissolved? ___
___ Lab-filtered for dissolved? ___
___ Ref Lab required? ___
___ Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE)

Yes	No		
___	___	Is received temperature 4 ± 2°C?	
		Exceptions:	Samples/Analyses Affected:
___	___	Rad Screen performed? Result: ___	
___	___	Was there an airbill? *(Note # above in the right hand column)*	
___	___	Was cooler sealed with custody seals? # / where: ___	
___	___	Were seal(s) intact upon arrival?	
___	___	Was there a COC with cooler?	
___	___	Was COC sealed in plastic bag & taped inside lid of cooler?	
___	___	Was the COC filled out properly?	
___	___	Did the COC indicate COE / AFCEE / Navy project?	
___	___	Did the COC and samples correspond?	
___	___	Were all sample packed to prevent breakage? Packing material: ___	
___	___	Were all samples unbroken and clearly labeled?	
___	___	Were all samples sealed in separate plastic bags?	
___	___	Were all VOCs free of headspace and/or MeOH preserved?	
___	___	Were correct container / sample sizes submitted?	
___	___	Is sample condition good?	
___	___	Was copy of CoC, SRF, and custody seals given to PM to fax?	

This section must be filled if problems are found.

Yes No ___ ___ Was client notified of problems?

Individual contacted: ___
Via: Phone / Fax / Email *(circle one)*
Date/Time: ___
Reason for contact: ___

Change Order Required? ___
SGS Contact: ___

Notes: ___

Completed by (sign): Sunny Castlebery (print): Sunny Castlebery

Login proof (check one): waived ___ required ___ performed by: ___

SGS

1066432

SGS WO#:

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: 11-14-06 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 / (Lynden) / SGS

Other: ______

Airbill # ______

COOLER AND TEMP BLANK READINGS*

Cooler ID	Temp Blank (°C)	Cooler (°C)	Cooler ID	Temp Blank (°C)	Cooler (°C)
1	2.5	0.9			

CUSTODY SEALS INTACT: (YES) / NO

#/ WHERE: Lorifront, Lorback

COMPLETED BY: DS

**Temperature readings include thermometer correction factors.*

SGS

1066432

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL	125 mL	60 mL	40 mL	8oz (250 mL)	4oz (125 mL)	Other	Container Type: AG	CG	HDPE	Nalgene	Cubie	Coli	Septa	Other	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	Other
1-2	A-C	1	GRO/BTEX								6				X						X			X						
	D-E		DRO/RRO			4									X									X						
3-4	A	2	GRO/BTEX										2		X						X						X			
	B		DRO/RRO									2			X								X							
5	A	2	GRO/BTEX										1		X						X						X			
	B		DRO/RRO, PAH, RCRA mtls									1			X								X							
	C		extra vol									1			X								X							
6-8	A	2	GRO/BTEX										3		X						X						X			
	B		DRO/RRO									3			X								X							
9	A-C	1	GRO/BTEX		X						3				X						X			X						
10	A	2	GRO/BTEX		X								1		X						X						X			
Bottle Totals						4					9	7	7																	

Completed by: Sunny Castleberry Date: 11/13/08

SGS Environmental **CUSTODY SEAL** WO# 6431 Cooler # 2

Signature: Sunny Castleberry Date/Time: 11/13/06 1640

SGS Environmental **CUSTODY SEAL** WO# 6431 Cooler # 2 TB=0.9 C=1.4

Signature: Sunny Castleberry Date/Time: 11/13/06 1640

SGS Environmental **CUSTODY SEAL** WO# 106 6431 Cooler # 1

Signature: Sunny Castleberry Date/Time: 11/13/06 1640

SGS Environmental **CUSTODY SEAL** WO# 6431 Cooler # 1 TB=1.8 C=2.1

Signature: Sunny Castleberry Date/Time: 11/13/06 1640

SGS Environmental **CUSTODY SEAL** WO# 6432

Signature: Sunny Castleberry Date/Time: 11/13/06 1640

SGS Environmental **CUSTODY SEAL** WO# 6432 TB=2.5 C=0.9

Signature: Sunny Castleberry Date/Time: 11/13/06 1640