



October 23, 2009

Quake Haydon

Sent via email to
haydonconcrete@gmail.com

**RE: Site Assessment Report
1952 Ada Street, Fairbanks, Alaska**

Quake:

NORTECH Environmental Engineering, Health, and Safety (**NORTECH**) is pleased to provide the following updated for the site assessment at 1652 Ada Street. The following text is a summary of the project history, field activities, and laboratory results that have been collected to date. This also outlines recommendations to complete the characterization of the site.

The recommendations are based on the regulations and guidance documents of the Alaska Department of Environmental Conservation (ADEC). ADEC notification requirements are attached and indicate that any release to water must be reported as soon as the person has knowledge of the discharge. ADEC has previously interpreted this to mean the landowner and/or operator of a facility, but not an environmental consultant working on a property. The existing results have not been reviewed by ADEC, nor has this report been submitted to ADEC for comment.

Project Background and Objectives

NORTECH was retained by Construction Machinery Industrial, LLC (CMI) to complete a Phase I ESA at 1952 Ada Street as part of a proposed land transfer from Mr. Quake Haydon. An underground storage tank containing gasoline was identified and was found not to be registered with the ADEC UST program. Permanent removal or registration with the ADEC was recommended. CMI and Mr. Haydon requested a site assessment following removal of the tank.

The objective of this project was to evaluate the tank and complete a site assessment in a manner consistent with ADEC guidance. Specific project tasks included:

- Physical inspection of the tank after removal
- Field screening of tank excavation and segregation of additional soil
- Laboratory sampling as indicated by field conditions
- Provide documentation of site assessment activities





Methodology

Field Screening Equipment and Methodology

A PhotoVac 2020PRO Hand Held Air Monitor/Photoionization Detector (PID) was the primary instrument used to field screen the soils for POL contamination. The PhotoVac PID is the primary field-screening instrument of choice as field screening with a PID allows for semi-quantitative real time analysis as compared to some of the other field screening methods that either use qualitative analysis or are more sensitive to temperature, humidity and hydrocarbon concentration variations.

Additionally, the PhotoVac-2020 is intrinsically safe and approved for use in Class 1, Division 2, Groups A, B, C, & D Hazardous Locations and is rugged in construction. Field screening by a PID involves measuring the concentration vapors generated by the POL contaminants in soils. The PID yields semi-quantitative values for soil gas concerning how much contaminant(s) are present, in reference to a certified isobutylene gas standard. Important specifications of the PhotoVac PID are as follows:

Instrument:	PhotoVac 2020PRO PID
Detection Limit:	0.1 ppm
Response Time:	Less than 5 seconds
Calibration:	Certified Isobutylene Standard (nominal 100 ppm)
Operating Temperature Range:	32 to 105°F (0 to 40°C)

NORTECH used the headspace method of field screening in general accordance with ADEC's Guidance for Treatment of Petroleum-Contaminated Soil and Water and Standard Sampling Procedures (referred to as the SSP in this document), Section 4, dated November 7, 2002. Headspace screening consists of partially filling (one-third to one-half) a clean resealable bag with freshly uncovered soils to be field screened. The bag was sealed and headspace vapors are allowed to develop. The bag was agitated at the beginning and end of the headspace development period. The soil and headspace were warmed to at least 40 degrees F (5 degrees C). A small opening was made in the top of the bag and the PID probe was inserted into the bag and the soil gas drawn from the center of the space above the soils and analyzed for hydrocarbon vapors. The highest PID reading from each sample was recorded in the field book.

POL Contaminant Level Classification

Headspace field screening is a method of quickly assessing potential POL contamination in the field without the need for laboratory results. However, a correlation between PID field screening results and laboratory results is generally site specific.

NORTECH used the classifications described below based on experience with recent heating oil releases.





PID field screening results greater than 20 ppm are considered above background and typically correlate to either suspect or known heating oil contamination. Field screening results between 20 ppm and 100 ppm are often in excess of ADEC's Method 2 cleanup level for this area and considered potentially contaminated. Field screening levels greater than 100 ppm is almost always in excess of this cleanup level and considered contaminated. Due to the limited nature of the contamination, all material that had a field screening result above 20 ppm was segregated for disposal as contaminated.

Lab Sampling and Analysis Procedure

Soil and groundwater samples were collected to evaluate the site relative to ADEC Method 2 clean up levels. Sampling was conducted following ADEC procedures outlined in the SSP, including the use of laboratory provided glassware and sample storage in a chilled cooler. SGS Environmental Services in Anchorage, Alaska, provided laboratory analysis.

Samples were analyzed for the following constituents:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021
- Gasoline Range Organics (GRO) by Alaska Method AK 101

Cleanup Levels

Applicable soil cleanup levels for this site were developed using ADEC Method 2. Method Two cleanup levels are located in Tables B1 and 8B2 of 18 AAC 75.341 for the "under-40 inch" zone. Cleanup levels are shown with the laboratory analysis results in Appendix 2, Table 1.

Field Activities

September 5, 2009

Mr. Haydon notified Ron Pratt of **NORTECH** that the tank had been removed and the excavation was ready for assessment. Upon arrival at the site, the tank and several small piles of soil were observed around the excavation. The tank appeared to have been dented and punctured near the top during removal. The original anti-corrosion surface was still present on the tank and no evidence of holes, leaks, or other concerns from the years of installation underground was observed.

The excavation was approximately 14 feet by 14 feet on the surface with a depth of about 6 feet at the former location of the tank (the tank imprint was still visible) and about 3 feet deep on the south side of the tank. Field screening results (77.6 ppm) confirmed the olfactory observation that a slight odor of gasoline was present at the





bottom of the excavation (6 feet below grade). Sidewalls around the tank had field screening results below the suspect criteria (<20 ppm). The multiple small stockpiles were not field screened, but none were observed to have an odor or staining.

Based on the field screening results, the excavation was extended deeper below the surface. Field screening results were 62.4 ppm at 7.5' below grade. The top of the smear zone was encountered about 8 feet below grade and the saturated zone was encountered at 8.5 feet below grade. The area beneath the tank was excavated below the groundwater surface. Field screening results around the remaining limits of excavation, including in the smear zone, were below the suspect criteria (<20 ppm). Soil samples were collected and held pending collection of a groundwater sample.

September 10, 2009

Mr. Pratt and Peter Beardsley of **NORTECH** returned to the site to install a monitoring well. This well consisted of a steel sand point with a four-foot screened interval. A shallow hand excavation was advanced to the water table to indicate the surface of the saturated layer and the sampling point was advanced so that the top of the screened interval was approximately four inches above the top of the saturated zone. This well point was purged until the purged water was free of silt and then a sample and field duplicate were collected. Approximately 5 gallons of water were purged and no sheen was observed on the purged water. The purge water was disposed of on the contaminated soil stockpile.

At the time of the site visit, the excavation had been expanded to the south and an additional pile of soil was present at the surface. The soil at the previously sampled locations had been removed as part of this additional excavation. No odor was observed in the excavation. Since the original samples had not been submitted to the laboratory, new field screening and laboratory samples were collected from around the base of the excavation. Field screening results around the new limits of excavation, including in the smear zone near the well, were below the suspect criteria (<20 ppm).

Laboratory Results

A total of three laboratory soil samples, including one field duplicate, were collected at the limits of excavation and analyzed for GRO (gasoline range organics) and BTEX (benzene, toluene, ethylbenzene, and xylenes). Sample locations are shown in Figure 4, laboratory results are summarized in Table 1, and a complete copy of the laboratory report is also attached. Each sample was non-detect for each contaminant of concern. The field duplicate quality control data was acceptable for these samples.

A total of two laboratory groundwater samples, including one field duplicate, were collected from the monitoring point and analyzed for GRO and BTEX. The well location is shown in Figure 4, laboratory results are summarized in Table 2, and these results are also in the attached laboratory report. GRO and benzene exceeded the ADEC





cleanup level in the two samples. Toluene, ethylbenzene, and xylenes were detected at concentrations below the ADEC cleanup level. The field duplicate quality control data is also summarized in Table 2 and is acceptable for these samples.

Analysis

NORTECH has completed site assessment at 1952 Ada Street in Fairbanks, Alaska. The site assessment activities were related to a unregistered underground gasoline storage tank that was removed on September 5, 2009. Field screening and field observations indicated that a limited amount of contaminated soil was present beneath the tank. These observations cannot be used to calculate the volume of gasoline released, but overall this release appeared relatively minor with the highest field screening results below 100 ppm. The tank appeared to be in generally good condition until the time of removal and the source of the contamination is most likely related to a minor overflow or other release at the tank. The tank should be disposed of properly. No additional assessment or investigation of the soil in the vicinity of the tank is considered necessary or recommended.

Approximately five cubic yards of soil was excavated, segregated, and stockpiled for disposal at a permitted facility. This soil remains on site and should be disposed of based on the known source of the gasoline tank. Field screening of any stockpiles remaining at the site is recommended to verify that all the contaminated is disposed of properly. Additional laboratory sampling of this soil is not expected to be necessary for disposal as gasoline contaminated soil. Additional testing is necessary if segregation of clean soil from the contaminated soil stockpile is desired before disposal.

The presence of contaminated soil near the water table indicated that a groundwater sample would be necessary to complete the site assessment. A steel sand point monitoring well was installed at the former tank location. Samples from this monitoring well indicated that GRO and benzene exceed the ADEC cleanup levels. Other BTEX compounds are present below the ADEC cleanup levels. These results appear to indicate that groundwater has been impacted by a release of gasoline related to the former tank.

NORTECH's experience is that groundwater samples collected from recently disturbed areas may not be representative of the stabilized groundwater conditions at a site. In general, a second sampling event is recommended several weeks after the initial sampling event to confirm the findings. A confirmation sampling event is recommended in the next few weeks to confirm these results.

In this case, the benzene concentration is two orders of magnitude above the cleanup level. This suggests that the stabilized groundwater results will probably exceed the benzene cleanup level. However, the limited contamination observed in the soil suggests that the groundwater contamination may also be limited. A limited





groundwater assessment around the tank is recommended to identify the extents of contamination associated with the tank. A recommended plan/proposal has been developed and is attached to this report for review.

As indicated in the attached ADEC Reporting Placard, the owner/operator of a facility is required to report any release to water. ADEC has interpreted this to mean that environmental consultants are required to notify owners of this responsibility, but not complete the reporting directly. **NORTECH** can facilitate this reporting coordination with ADEC on this matter.

Conclusions and Recommendations

Based on the site assessment activities completed to date, a limited release of gasoline appears to have impacted the soil and groundwater in the vicinity of a former underground gasoline tank at 1952 Ada Street. **NORTECH** has developed the following conclusions and recommendations about the site:

- The tank appeared to be in generally good condition until the time of removal
 - The tank did not show signs of corrosion or leaking
 - The source and quantity of the limited release is not documented
 - The tank should be disposed of properly
- Multiple small stockpiles were generated during excavation
 - Clean stockpiles can be used to backfill the excavation
 - Contaminated stockpiles should be disposed of properly
 - Field screening is recommended for any remaining stockpiles to verify the condition of the stockpile
- Field screening indicated that a small amount of contamination was present beneath the tank
 - This material had PID readings between 20 and 100 ppm
 - A small contaminated soil stockpile was segregated from the other excavated soil
 - The excavation extended to smear zone and below the groundwater surface
 - Field screening results at the limits of the excavation indicated no contaminated soil remained
 - Laboratory results at the limits of excavation confirmed that no contaminated soil remained
 - This contaminated stockpile should be disposed of properly





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- A steel sand point monitoring well was installed to assess the groundwater conditions at the former tank location
 - This well was installed through the bottom of the excavation using hand direct push methods
 - The well had a high recharge rate
 - The well was purged until no silt was entering the top of the screened interval
 - GRO and benzene concentrations within the well exceed the ADEC cleanup levels
 - Toluene, ethylbenzene, and xylenes are present below the ADEC cleanup levels
 - These results indicate that the limited release has impacted groundwater at the site
 - Confirmation sampling of this well is recommended in the next few weeks to verify these results
 - A limited groundwater assessment is recommended to determine the extent of the contaminated groundwater

NORTECH has provided you a work plan and proposal to complete the limited groundwater assessment under separate cover. This proposal also outlines potential long-term monitoring for the property that may be required by ADEC if the groundwater contamination is both confirmed and limited, as anticipated. The owner/operator of the property has reporting responsibilities as outlined in the attached ADEC Reporting Placard and **NORTECH** can facilitate this interaction with ADEC upon request. This report should be maintained by the owner of the property to document the site assessment activities in the vicinity of the former tank.

Limitations and Notifications

NORTECH provides a level of service that is performed within the standards of care and competence of the environmental engineering profession. However, it must be recognized that limitations exist within any site investigation. This report provides results based on a restricted work scope and from the analysis and observation of a limited number of samples. Therefore, while it is our opinion that these limitations are reasonable and adequate for the purposes of this report, actual site conditions may differ. Specifically, the unknown nature of exact subsurface physical conditions, sampling locations, the analytical procedures' inherent limitations, as well as financial and time constraints are limiting factors.

The report is a record of observations and measurements made on the subject site as described. The data should be considered representative only of the time the site investigation was completed. No other warranty or presentation, either expressed or





implied, is included or intended. This report is prepared for the exclusive use of Quake Haydon. If it is made available to others, it should be for information on factual data only, and not as a warranty of conditions, such as those interpreted from the results presented or discussed in the report. We certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with ADEC's Standard Sampling Procedures. **NORTECH** has performed the work, made the findings, and proposed the recommendations described in this report in accordance with generally accepted environmental engineering practices.

We trust that this information is sufficient for your needs at the present time. If you have any questions or comments about the activities documented or recommended in this report, please contact me at your earliest convenience.

Sincerely,
NORTECH

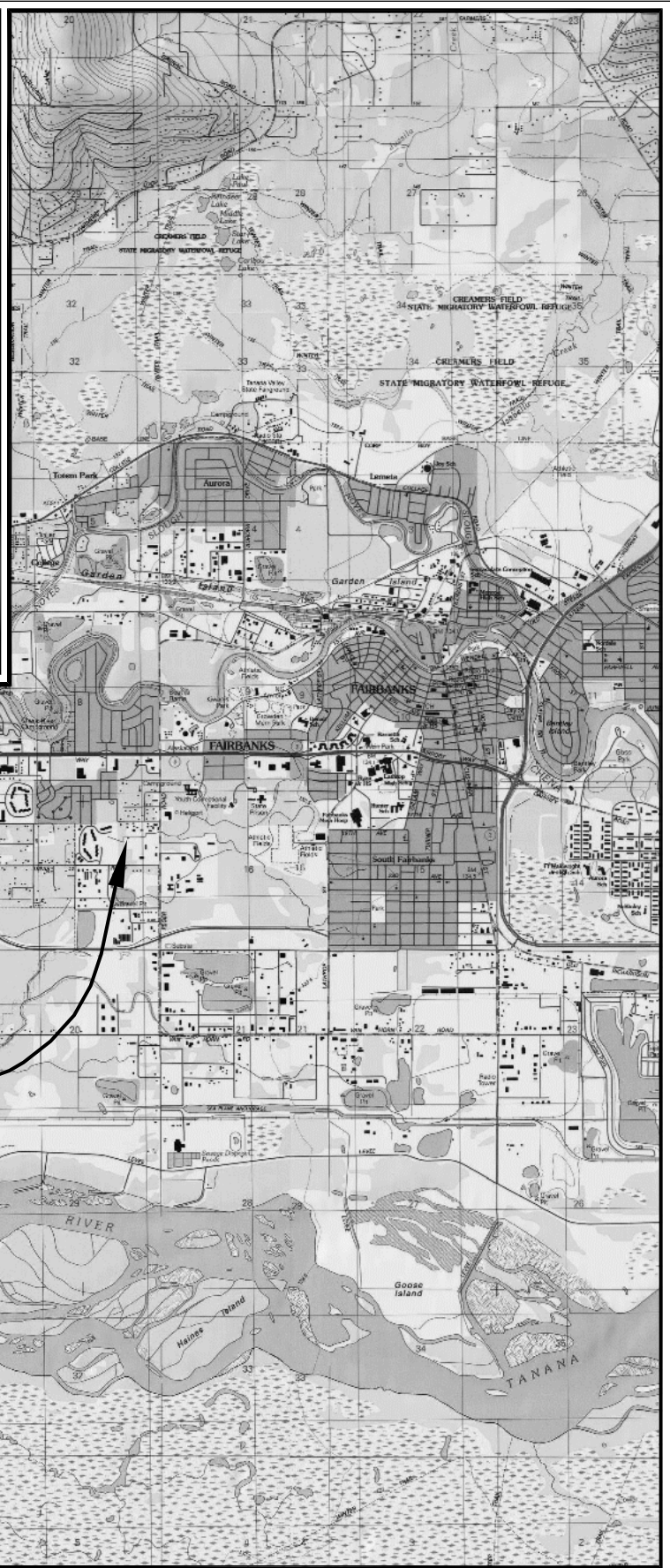
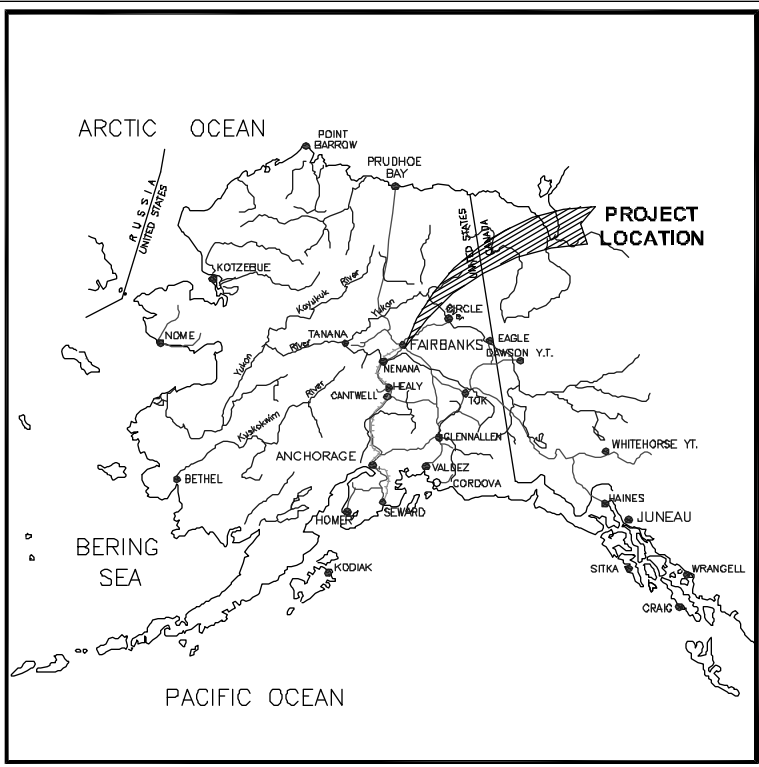
A handwritten signature in black ink, appearing to read "Peter Beardsley".

Peter Beardsley, PE
Environmental Engineer

Attachment: Figures 1 – 4
Tables 1 – 2
Copy of Laboratory Report
ADEC Spill Reporting Placard



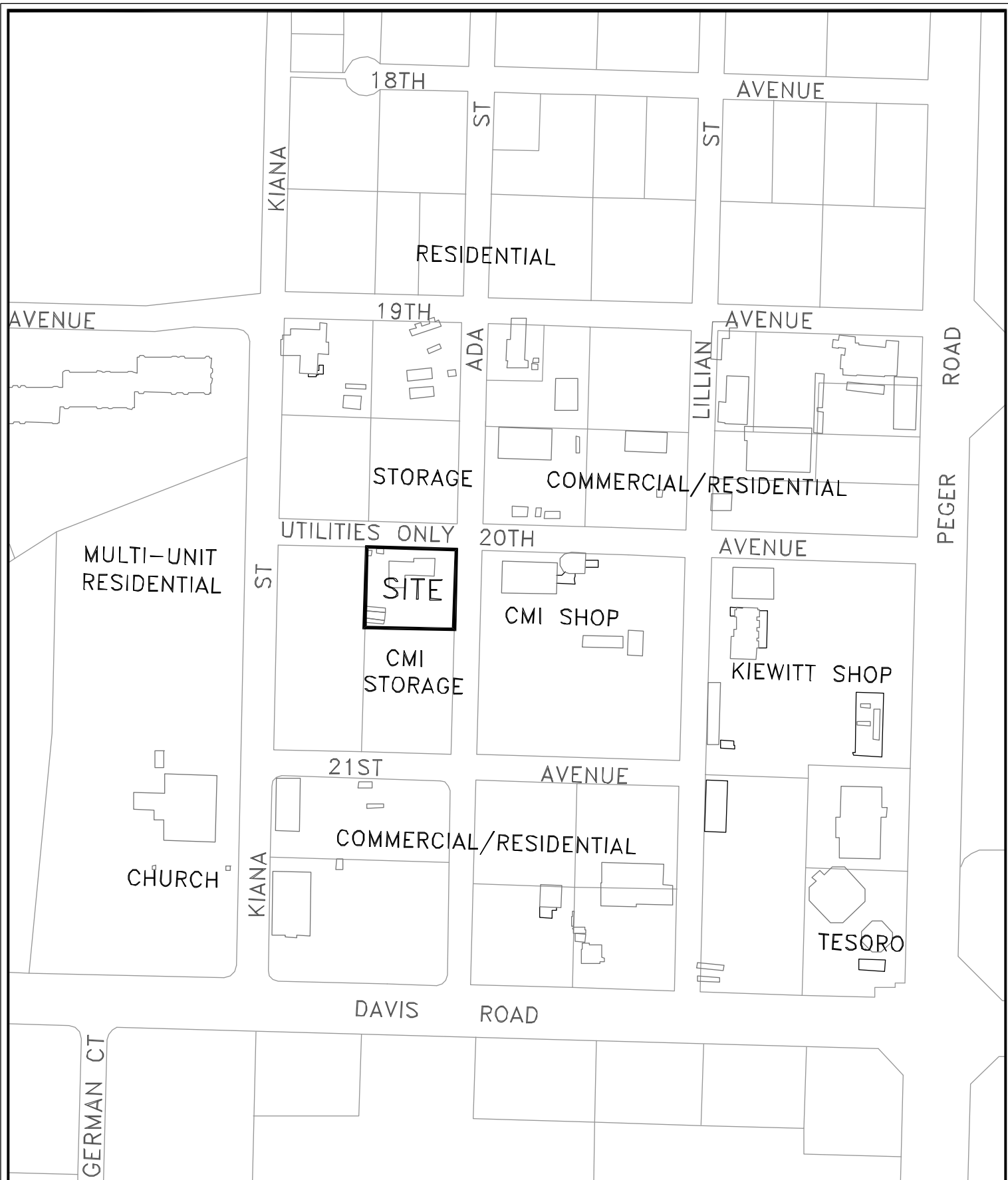
Attachment 1



ENVIRONMENTAL ENGINEERING HEALTH & SAFETY
 2400 College Road, Fairbanks, Alaska 99709 Ph: 907-452-5688
 3105 Lakeshore Dr. Anch, Alaska 99517, Ph: 907-222-2445
 119 Seward St. #10, Juneau, Alaska 99801 Ph: 907-586-6813

Location Map
 Lot 1, Haydon Subdivision
 Fairbanks, Alaska

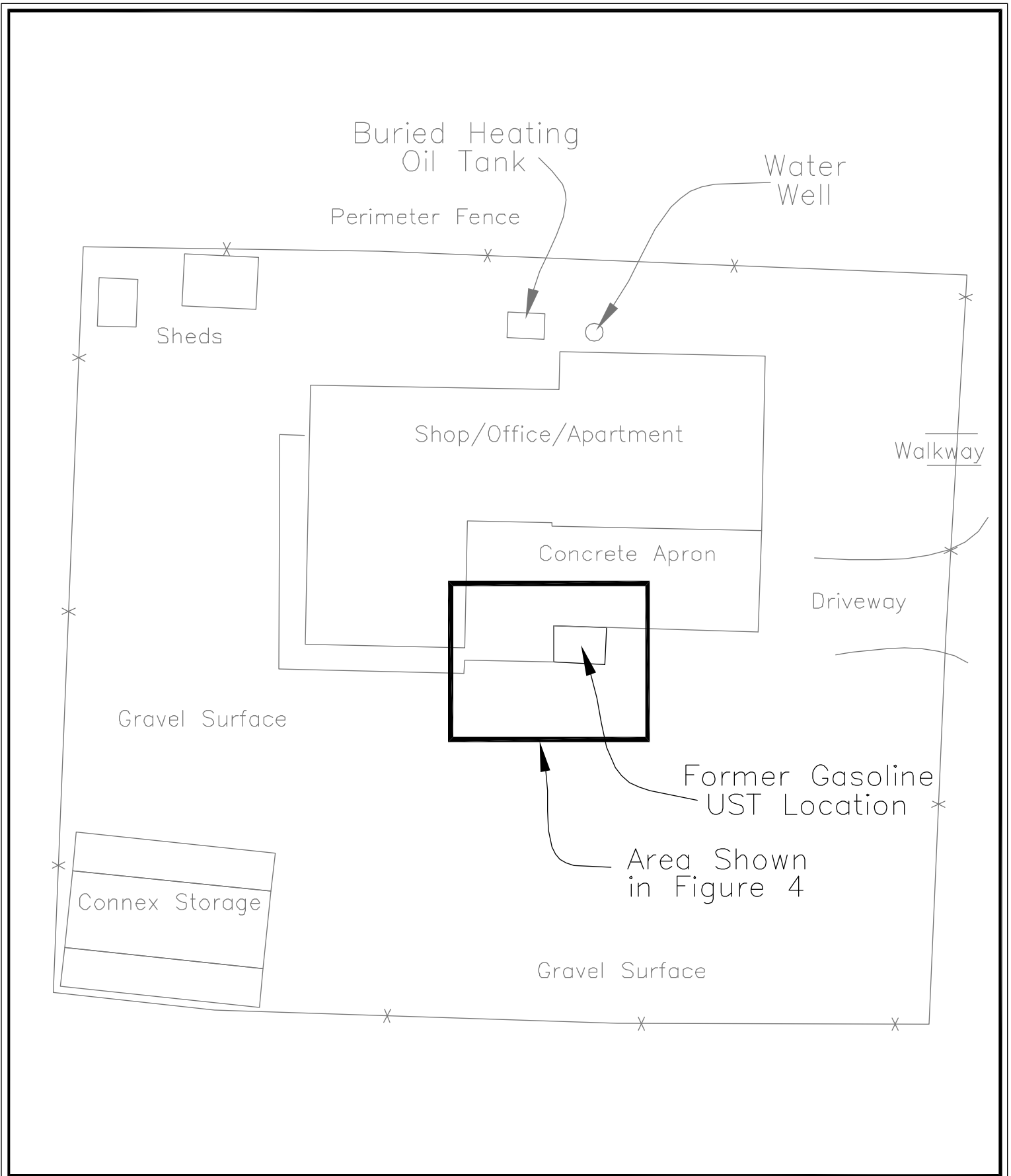
SCALE: 1"=1 mi	FIGURE:
DESIGN: PLB	1
DRAWN: PLB	
PROJECT NO: 09-1061	
DWG: 091061a(01)	
DATE: 08/28/09	



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 119 Seward St. #10, Juneau, Alaska 99801 Ph: 907-586-6813

Vicinity Map
 Lot 1, Haydon Subdivision
 Fairbanks, Alaska

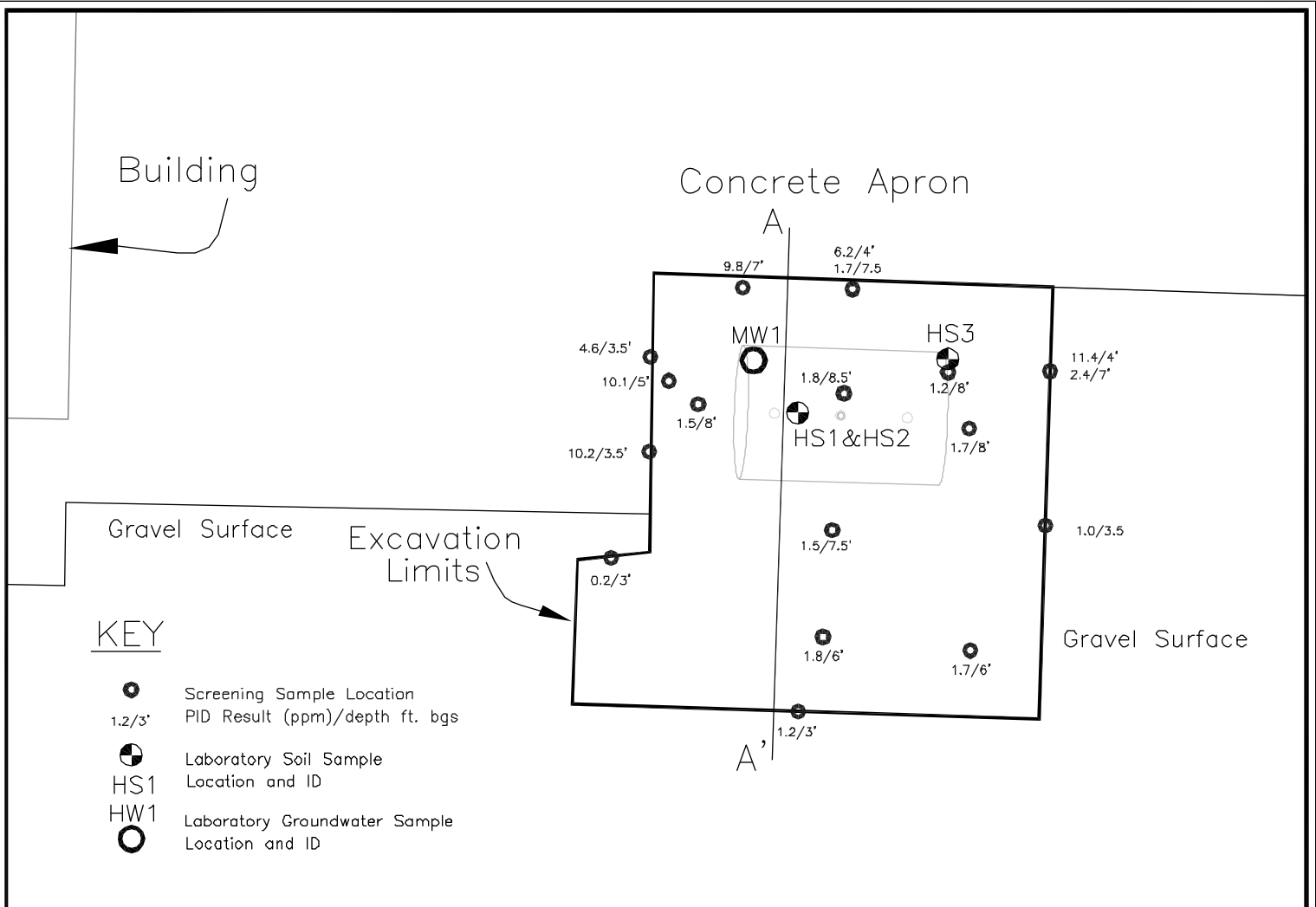
SCALE: 1" = 250'	FIGURE:
DESIGN: PLB	2
DRAWN: PLB	
PROJECT NO: 09-1061	
DWG: 091061a(02s)	
DATE: 10/12/09	



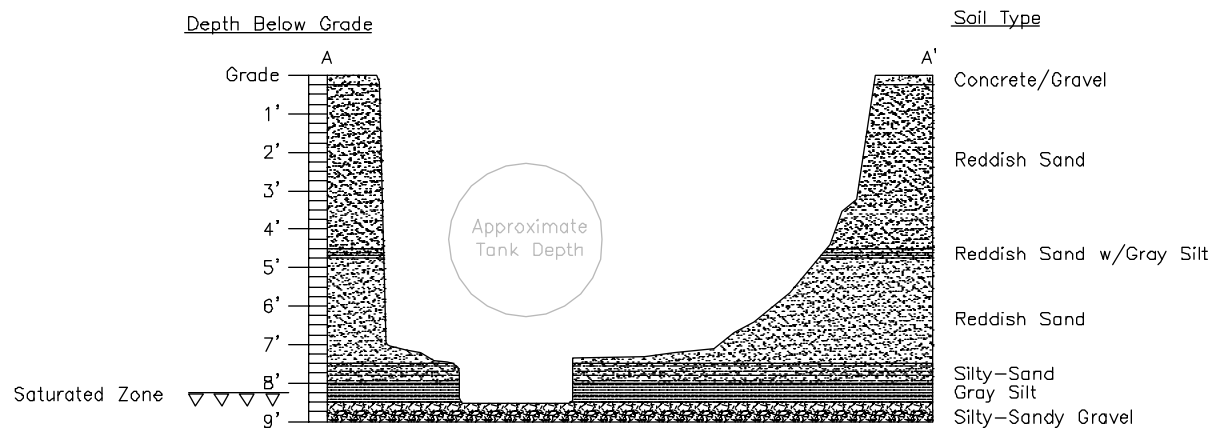
ENVIRONMENTAL ENGINEERING HEALTH & SAFETY
 2400 College Road, Fairbanks, Alaska 99709 Ph: 907-452-5688
 3105 Lakeshore Dr. Anch, Alaska 99517, Ph: 907-222-2445
 119 Seward St. #10, Juneau, Alaska 99801 Ph: 907-586-6813

Site Map
 Lot 1, Haydon Subdivision
 Fairbanks, Alaska

SCALE: 1" = 25'	FIGURE: 3
DESIGN: PLB	
DRAWN: PLB	
PROJECT NO: 09-1061	
DWG: 091061a(03s)	
DATE: 10/12/09	



UST Excavation Cross Section A-A'



ENVIRONMENTAL ENGINEERING HEALTH & SAFETY
 2400 College Road, Fairbanks, Alaska 99709 Ph: 907-452-5688
 3105 Lakeshore Dr. Anch, Alaska 99517, Ph: 907-222-2445
 119 Seward St. #10, Juneau, Alaska 99801 Ph: 907-586-6813

Sample Locations and Cross Section
 Lot 1, Haydon Subdivision
 Fairbanks, Alaska

SCALE: 1" = 5'	FIGURE: 4
DESIGN: PLB	
DRAWN: PLB	
PROJECT NO: 09-1061	
DWG: 091061a(04s)	
DATE: 10/12/09	

Attachment 2

Table 1
Soil Laboratory Analysis Results - GRO and BTEX
 Lot 1 - Haydon Subdivision - Former Tank Assessment

Sample ID	Field Screening	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylene
Units	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Analytical Method		AK101	8021B	8021B	8021B	8021B
ADEC Method 2		250	0.025	5.4	6.9	63
HS1	1.2	3.00U	0.0150U	0.0600U	0.0600U	0.0600U
HS2 (DUP HS1)	1.2	2.93U	0.0146U	0.0585U	0.0585U	0.0585U
HS3	1.8	4.34U	0.0217U	0.0869U	0.0869U	0.0869U

Notes:
 U Compound was not detected at specified detection limit
 DUP HS1 Field duplicate of sample collected from HS2

Field Duplicate Quality Control Results

Sample ID	HS1	HS2	Average	Difference	RPD
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%
GRO	ND	ND	NA	NA	NA
B	ND	ND	NA	NA	NA
T	ND	ND	NA	NA	NA
E	ND	ND	NA	NA	NA
X	ND	ND	NA	NA	NA

Notes:
 ND Analyte was not detected in the sample
 NA The calculation is not applicable

Table 2
Groundwater Laboratory Results GRO and BTEX
 Lot 1 - Haydon Subdivision - Former Tank Assessment

Sample ID	GRO	Benzene	Toluene	Ethyl-benzene	Total Xylene
Units	mg/L	mg/L	mg/L	mg/L	mg/L
Method	AK101	8021B	8021B	8021B	8021B
Reg Limit	1.5	0.005	1	0.7	10
HW1	2.53	0.493	0.252	0.134	0.367
HW2 *	2.70	0.445	0.240	0.137	0.374

Notes:

shade	Result is above detection limit, but below ADEC regulatory limit
bold	Result is above ADEC regulatory limit

* Field duplicate of HW1

Groundwater Duplicate QC Results

Sample ID	HW1	HW2	Average	Difference	RPD
Analyte	mg/L	mg/L	mg/L	mg/L	%
GRO	2.53	2.70	2.62	0.17	7%
B	0.493	0.445	0.469	-0.048	-10%
T	0.252	0.240	0.246	-0.012	-5%
E	0.134	0.137	0.136	0.003	2%
X	0.367	0.374	0.371	0.007	2%

RPD Relative percent difference

Attachment 3



SGS North America Inc.
Alaska Division
Level II Laboratory Data Report

Project: 09-1061
Client: Nortech
SGS Work Order: 1094993

Released by:

A handwritten signature in black ink that reads "Stephen C. Ede". The signature is written in a cursive style.

Alaska Division Technical Director

Stephen Ede
2009.09.24
08:19:01 -08'00'

Contents:

Cover Page
Case Narrative
Final Report Pages
Quality Control Summary Forms
Chain of Custody/Sample Receipt Forms

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.



Case Narrative

Client NORTECH Nortech
Workorder 1094993 09-1061

Printed Date/Time 9/23/2009 16:52

Sample ID **Client Sample ID**

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

1094993004 PS HW1

AK101/8021B - BFB (surrogate) recovery does not meet QC criteria (biased high) due to hydrocarbon interference.

1094993005 PS HW2

AK101/8021B - BFB (surrogate) recovery does not meet QC criteria (biased high) due to hydrocarbon interference.

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

Peter Beardsley
Nortech
2400 College Rd.
Fairbanks, AK 99709

Work Order: 1094993
09-1061
Client: Nortech
Report Date: September 23, 2009

Released by:



Alaska Division Technical Director

Stephen Ede
2009.09.24
08:19:19 -08'00'

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 AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 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. All work is being provided under SGS general terms and conditions (http://www.sgs.com/terms_and_conditions.htm) unless other written agreements have been accepted by both parties.

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.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.



Detectable Results Summary

Print Date: 9/23/2009 4:52 pm

Client Sample ID: **HW1**

SGS Ref. #: 1094993004

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Gasoline Range Organics	2.53	mg/L
Benzene	493	ug/L
Toluene	252	ug/L
Ethylbenzene	134	ug/L
o-Xylene	191	ug/L
P & M -Xylene	176	ug/L

Client Sample ID: **HW2**

SGS Ref. #: 1094993005

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Gasoline Range Organics	2.70	mg/L
Benzene	445	ug/L
Toluene	240	ug/L
Ethylbenzene	137	ug/L
o-Xylene	190	ug/L
P & M -Xylene	183	ug/L



SGS Ref.# 1094993001
Client Name Nortech
Project Name/# 09-1061
Client Sample ID HS1
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Collected Date/Time 09/10/2009 15:30
Received Date/Time 09/12/2009 12:05
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	ND	3.00	mg/Kg	AK101	A			09/21/09	KPW
Benzene	ND	15.0	ug/Kg	SW8021B	A			09/21/09	KPW
Toluene	ND	60.0	ug/Kg	SW8021B	A			09/21/09	KPW
Ethylbenzene	ND	60.0	ug/Kg	SW8021B	A			09/21/09	KPW
o-Xylene	ND	60.0	ug/Kg	SW8021B	A			09/21/09	KPW
P & M -Xylene	ND	60.0	ug/Kg	SW8021B	A			09/21/09	KPW
<u>Surrogates</u>									
4-Bromofluorobenzene <surr>	72.2		%	AK101	A	50-150		09/21/09	KPW
1,4-Difluorobenzene <surr>	98.5		%	SW8021B	A	80-120		09/21/09	KPW
<u>Solids</u>									
Total Solids	85.9		%	SM20 2540G	B			09/14/09	SDP



SGS Ref.# 1094993002
Client Name Nortech
Project Name/# 09-1061
Client Sample ID HS2
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Collected Date/Time 09/10/2009 15:35
Received Date/Time 09/12/2009 12:05
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	ND	2.93	mg/Kg	AK101	A			09/21/09	KPW
Benzene	ND	14.6	ug/Kg	SW8021B	A			09/21/09	KPW
Toluene	ND	58.5	ug/Kg	SW8021B	A			09/21/09	KPW
Ethylbenzene	ND	58.5	ug/Kg	SW8021B	A			09/21/09	KPW
o-Xylene	ND	58.5	ug/Kg	SW8021B	A			09/21/09	KPW
P & M -Xylene	ND	58.5	ug/Kg	SW8021B	A			09/21/09	KPW
<u>Surrogates</u>									
4-Bromofluorobenzene <surr>	80.3		%	AK101	A	50-150		09/21/09	KPW
1,4-Difluorobenzene <surr>	99.8		%	SW8021B	A	80-120		09/21/09	KPW
<u>Solids</u>									
Total Solids	84.2		%	SM20 2540G	B			09/14/09	SDP



SGS Ref.# 1094993003
Client Name Nortech
Project Name/# 09-1061
Client Sample ID HS3
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Collected Date/Time 09/10/2009 15:40
Received Date/Time 09/12/2009 12:05
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	ND	4.34	mg/Kg	AK101	A			09/21/09	KPW
Benzene	ND	21.7	ug/Kg	SW8021B	A			09/21/09	KPW
Toluene	ND	86.9	ug/Kg	SW8021B	A			09/21/09	KPW
Ethylbenzene	ND	86.9	ug/Kg	SW8021B	A			09/21/09	KPW
o-Xylene	ND	86.9	ug/Kg	SW8021B	A			09/21/09	KPW
P & M -Xylene	ND	86.9	ug/Kg	SW8021B	A			09/21/09	KPW
<u>Surrogates</u>									
4-Bromofluorobenzene <surr>	85.9		%	AK101	A	50-150		09/21/09	KPW
1,4-Difluorobenzene <surr>	100		%	SW8021B	A	80-120		09/21/09	KPW
<u>Solids</u>									
Total Solids	72.9		%	SM20 2540G	B			09/14/09	SDP



SGS Ref.# 1094993004
Client Name Nortech
Project Name/# 09-1061
Client Sample ID HW1
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 09/23/2009 16:52
Collected Date/Time 09/10/2009 16:20
Received Date/Time 09/12/2009 12:05
Technical Director Stephen C. Ede

Sample Remarks:

AK101/8021B - BFB (surrogate) recovery does not meet QC criteria (biased high) due to hydrocarbon interference.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	2.53	0.100	mg/L	AK101	A		09/20/09	09/20/09	KPW
Benzene	493	5.00	ug/L	SW8021B	B		09/22/09	09/22/09	KPW
Toluene	252	20.0	ug/L	SW8021B	B		09/22/09	09/22/09	KPW
Ethylbenzene	134	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
o-Xylene	191	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
P & M -Xylene	176	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
<u>Surrogates</u>									
4-Bromofluorobenzene <surr>	168	!	%	AK101	A	50-150	09/20/09	09/20/09	KPW
1,4-Difluorobenzene <surr>	90.9		%	SW8021B	A	80-120	09/20/09	09/20/09	KPW



SGS Ref.# 1094993005
Client Name Nortech
Project Name/# 09-1061
Client Sample ID HW2
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 09/23/2009 16:52
Collected Date/Time 09/10/2009 16:30
Received Date/Time 09/12/2009 12:05
Technical Director Stephen C. Ede

Sample Remarks:

AK101/8021B - BFB (surrogate) recovery does not meet QC criteria (biased high) due to hydrocarbon interference.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	2.70	0.100	mg/L	AK101	A		09/20/09	09/20/09	KPW
Benzene	445	5.00	ug/L	SW8021B	B		09/22/09	09/22/09	KPW
Toluene	240	20.0	ug/L	SW8021B	B		09/22/09	09/22/09	KPW
Ethylbenzene	137	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
o-Xylene	190	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
P & M -Xylene	183	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
Surrogates									
4-Bromofluorobenzene <surr>	171	!	%	AK101	A	50-150	09/20/09	09/20/09	KPW
1,4-Difluorobenzene <surr>	90.7		%	SW8021B	A	80-120	09/20/09	09/20/09	KPW



SGS Ref.# 1094993006
Client Name Nortech
Project Name/# 09-1061
Client Sample ID TB-SOIL
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Collected Date/Time 09/10/2009 15:30
Received Date/Time 09/12/2009 12:05
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	ND	2.56	mg/Kg	AK101	A			09/21/09	KPW
Benzene	ND	12.8	ug/Kg	SW8021B	A			09/21/09	KPW
Toluene	ND	51.2	ug/Kg	SW8021B	A			09/21/09	KPW
Ethylbenzene	ND	51.2	ug/Kg	SW8021B	A			09/21/09	KPW
o-Xylene	ND	51.2	ug/Kg	SW8021B	A			09/21/09	KPW
P & M -Xylene	ND	51.2	ug/Kg	SW8021B	A			09/21/09	KPW
Surrogates									
4-Bromofluorobenzene <surr>	74.3		%	AK101	A	50-150		09/21/09	KPW
1,4-Difluorobenzene <surr>	100		%	SW8021B	A	80-120		09/21/09	KPW



SGS Ref.# 1094993007
Client Name Nortech
Project Name/# 09-1061
Client Sample ID TB-WATER
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 09/23/2009 16:52
Collected Date/Time 09/10/2009 15:30
Received Date/Time 09/12/2009 12:05
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<u>Volatile Fuels Department</u>									
Gasoline Range Organics	ND	0.100	mg/L	AK101	A		09/20/09	09/20/09	KPW
Benzene	ND	0.500	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
Toluene	ND	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
Ethylbenzene	ND	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
o-Xylene	ND	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
P & M -Xylene	ND	2.00	ug/L	SW8021B	A		09/20/09	09/20/09	KPW
Surrogates									
4-Bromofluorobenzene <surr>	104		%	AK101	A	50-150	09/20/09	09/20/09	KPW
1,4-Difluorobenzene <surr>	104		%	SW8021B	A	80-120	09/20/09	09/20/09	KPW



SGS Ref.# 923945 Method Blank
Client Name Nortech
Project Name/# 09-1061
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Prep Batch
Method
Date

QC results affect the following production samples:
1094993001, 1094993002, 1094993003

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Solids

Total Solids	99.9			%	09/14/09
Batch	SPT8007				
Method	SM20 2540G				
Instrument					



SGS Ref.# 925583 Method Blank
Client Name Nortech
Project Name/# 09-1061
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 09/23/2009 16:52
Prep Batch VXX19981
Method SW5030B
Date 09/20/2009

QC results affect the following production samples:
 1094993004, 1094993005, 1094993007

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Fuels Department

Gasoline Range Organics	ND	0.100	0.0310	mg/L	09/20/09
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Surrogates

4-Bromofluorobenzene <surr>	105	50-150		%	09/20/09
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Batch VFC9655
Method AK101
Instrument HP 5890 Series II PID+HECD VBA

Benzene	ND	0.500	0.150	ug/L	09/20/09
Toluene	ND	2.00	0.620	ug/L	09/20/09
Ethylbenzene	ND	2.00	0.620	ug/L	09/20/09
o-Xylene	ND	2.00	0.620	ug/L	09/20/09
P & M -Xylene	ND	2.00	0.620	ug/L	09/20/09

Surrogates

1,4-Difluorobenzene <surr>	104	80-120		%	09/20/09
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Batch VFC9655
Method SW8021B
Instrument HP 5890 Series II PID+HECD VBA



SGS Ref.# 925957 Method Blank
Client Name Nortech
Project Name/# 09-1061
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Prep Batch VXX19988
Method SW5035A
Date 09/21/2009

QC results affect the following production samples:
 1094993001, 1094993002, 1094993003, 1094993006

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<u>Volatile Fuels Department</u>					
Gasoline Range Organics	ND	2.50	0.750	mg/Kg	09/21/09
Surrogates					
4-Bromofluorobenzene <surr>	99.5	50-150		%	09/21/09
Batch	VFC9656				
Method	AK101				
Instrument	HP 5890 Series II PID+HECD VBA				
Benzene	ND	12.5	4.00	ug/Kg	09/21/09
Toluene	ND	50.0	15.0	ug/Kg	09/21/09
Ethylbenzene	ND	50.0	15.0	ug/Kg	09/21/09
o-Xylene	ND	50.0	15.0	ug/Kg	09/21/09
P & M -Xylene	ND	50.0	15.0	ug/Kg	09/21/09
Surrogates					
1,4-Difluorobenzene <surr>	102	80-120		%	09/21/09
Batch	VFC9656				
Method	SW8021B				
Instrument	HP 5890 Series II PID+HECD VBA				



SGS Ref.# 926103 Method Blank
Client Name Nortech
Project Name/# 09-1061
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 09/23/2009 16:52
Prep Batch VXX19992
Method SW5030B
Date 09/22/2009

QC results affect the following production samples:
1094993004, 1094993005

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Fuels Department

Surrogates

4-Bromofluorobenzene <surr>	103	50-150		%	09/22/09
Batch	VFC9658				
Method	AK101				
Instrument	HP 5890 Series II PID+FID VCA				

Benzene	ND	0.500	0.150	ug/L	09/22/09
Toluene	ND	2.00	0.620	ug/L	09/22/09

Surrogates

1,4-Difluorobenzene <surr>	83.7	80-120		%	09/22/09
Batch	VFC9658				
Method	SW8021B				
Instrument	HP 5890 Series II PID+FID VCA				



SGS Ref.# 923946 Duplicate
Client Name Nortech
Project Name/# 09-1061
Original 1094837001
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Prep Batch
Method
Date

QC results affect the following production samples:
1094993001, 1094993002, 1094993003

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
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Solids

Total Solids	96.0	96.1	%	0	(< 15)	09/14/2009
Batch	SPT8007					
Method	SM20 2540G					
Instrument						



SGS Ref.# 925584 Lab Control Sample
 925585 Lab Control Sample Duplicate
Client Name Nortech
Project Name/# 09-1061
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 09/23/2009 16:52
Prep Batch VXX19981
Method SW5030B
Date 09/20/2009

QC results affect the following production samples:
 1094993004, 1094993005, 1094993007

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Fuels Department</u>							
Benzene	LCS	97.7	(80-120)	0	(< 20)	100 ug/L	09/20/2009
	LCSD	97.8					
Toluene	LCS	99.9	(80-120)	2	(< 20)	100 ug/L	09/20/2009
	LCSD	102					
Ethylbenzene	LCS	102	(87-125)	2	(< 20)	100 ug/L	09/20/2009
	LCSD	104					
o-Xylene	LCS	100	(85-120)	2	(< 20)	100 ug/L	09/20/2009
	LCSD	102					
P & M -Xylene	LCS	203	(87-125)	2	(< 20)	200 ug/L	09/20/2009
	LCSD	207					
Surrogates							
1,4-Difluorobenzene <surr>	LCS		(80-120)	1			09/20/2009
	LCSD						101

Batch VFC9655
Method SW8021B
Instrument HP 5890 Series II PID+HECD VBA



SGS Ref.# 925586 Lab Control Sample
925587 Lab Control Sample Duplicate
Client Name Nortech
Project Name/# 09-1061
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 09/23/2009 16:52
Prep Batch VXX19981
Method SW5030B
Date 09/20/2009

QC results affect the following production samples:
1094993004, 1094993005, 1094993007

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

Gasoline Range Organics	LCS	0.201	100	(60-120)		0.200 mg/L	09/20/2009
	LCSD	0.202	101		1	(< 20)	0.200 mg/L 09/20/2009

Surrogates

4-Bromofluorobenzene <surr>	LCS		103	(50-150)			09/20/2009
	LCSD		104		1		09/20/2009

Batch VFC9655
Method AK101
Instrument HP 5890 Series II PID+HECD VBA



SGS Ref.# 925958 Lab Control Sample
 925959 Lab Control Sample Duplicate
Client Name Nortech
Project Name/# 09-1061
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Prep Batch VXX19988
Method SW5035A
Date 09/21/2009

QC results affect the following production samples:
 1094993001, 1094993002, 1094993003, 1094993006

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Fuels Department</u>							
Benzene	LCS 1300	104	(80-125)			1250 ug/Kg	09/21/2009
	LCSD 1270	102		2	(< 20)	1250 ug/Kg	09/21/2009
Toluene	LCS 1280	103	(85-120)			1250 ug/Kg	09/21/2009
	LCSD 1260	101		1	(< 20)	1250 ug/Kg	09/21/2009
Ethylbenzene	LCS 1300	104	(85-125)			1250 ug/Kg	09/21/2009
	LCSD 1280	103		2	(< 20)	1250 ug/Kg	09/21/2009
o-Xylene	LCS 1280	102	(85-125)			1250 ug/Kg	09/21/2009
	LCSD 1250	100		2	(< 20)	1250 ug/Kg	09/21/2009
P & M -Xylene	LCS 2650	106	(85-125)			2500 ug/Kg	09/21/2009
	LCSD 2620	105		1	(< 20)	2500 ug/Kg	09/21/2009
Surrogates							
1,4-Difluorobenzene <surr>	LCS	100	(80-120)				09/21/2009
	LCSD	100		0			09/21/2009

Batch VFC9656
Method SW8021B
Instrument HP 5890 Series II PID+HECD VBA



SGS Ref.# 925960 Lab Control Sample
 925961 Lab Control Sample Duplicate
Client Name Nortech
Project Name/# 09-1061
Matrix Soil/Solid (dry weight)

Printed Date/Time 09/23/2009 16:52
Prep Batch VXX19988
Method SW5035A
Date 09/21/2009

QC results affect the following production samples:
 1094993001, 1094993002, 1094993003, 1094993006

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Fuels Department</u>							
Gasoline Range Organics	LCS	11.9	106	(60-120)		11.3 mg/Kg	09/21/2009
	LCSD	12.1	107		1	(< 20)	11.3 mg/Kg 09/21/2009
Surrogates							
4-Bromofluorobenzene <surr>	LCS		108	(50-150)			09/21/2009
	LCSD		107		2		09/21/2009

Batch VFC9656
Method AK101
Instrument HP 5890 Series II PID+HECD VBA



SGS Ref.# 926104 Lab Control Sample
 926105 Lab Control Sample Duplicate
Client Name Nortech
Project Name/# 09-1061
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 09/23/2009 16:52
Prep Batch VXX19992
Method SW5030B
Date 09/22/2009

QC results affect the following production samples:

1094993004, 1094993005

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

Benzene	LCS	101	101	(80-120)		100 ug/L	09/22/2009
	LCSD	98.3	98		3	(< 20)	100 ug/L 09/23/2009
Toluene	LCS	101	101	(80-120)		100 ug/L	09/22/2009
	LCSD	98.7	99		2	(< 20)	100 ug/L 09/23/2009

Surrogates

1,4-Difluorobenzene <surr>	LCS		86	(80-120)			09/22/2009
	LCSD		85		1		09/23/2009

Batch VFC9658
Method SW8021B
Instrument HP 5890 Series II PID+FID VCA



1094993



mental Services Inc. CUSTODY RECORD

- Locations Nationwide
- Alaska
 - Maryland
 - New Jersey
 - North Carolina
 - Ohio
 - West Virginia
- www.us.sgs.com

1 CLIENT: NORTECH
 CONTACT: Peter Beardsley
 PROJECT: 09-1061
 REPORTS TO: NORTECH
 2400 College Rd
 Fairbanks AK
 INVOICE TO: NORTECH

PHONE NO: 9074525688
 SITE/PWSID#: _____
 EMAIL: _____
 QUOTE #: _____
 P.O. #: _____

SGS Reference #: _____ page _____ of _____

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	Preservatives Used				REMARKS/ LOC ID		
							Meth	Meth	HCl	HCl			
0 AB	HS1	9/10/09	1530	Soil	2	G	X						
0 B	HS2	9/10/09	1535	Soil	2	G	X						
0 C	HS3	9/10/09	1540	Soil	2	G	X						
0 A-C	HW1	9/10/09	1620	Water	3	GIR	X						
0 B	HW2	9/10/09	1630	Water	3	B	X						
0 A	TB - soil				1		X						
0 A-C	TB - water				1		X						

4

Collected/Relinquished By: (1) *[Signature]* Date: 9/11/09 Time: 1030 Received By: *[Signature]*
 Relinquished By: (2) *[Signature]* Date: 9/11/09 Time: 1515 Received By: *[Signature]*
 Relinquished By: (3) _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: (4) _____ Date: 9/13/09 Time: 1205 Received For Laboratory By: *[Signature]*

DOD Project? YES NO Cooler ID _____
 Special Deliverable Requirements: _____
 Requested Turnaround Time and/or Special Instructions: _____

Samples Received Cold? YES NO Cooler TB
 Temperature: 53.6.0

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT



SAMPLE RECEIPT FORM

SGS WO#:

Yes No NA

- Are samples **RUSH**, priority or w/in 72 hrs of hold time?
- If yes, have you done e-mail ALERT notification?
- Are samples within 24 hrs. of hold time or due date?
- If yes, have you also spoken with supervisor?
- Archiving bottles: Are lids marked w/ red "X"?
- Were samples collected with proper preservative?
- Any problems (ID, cond'n, HT, etc)? Explain:
NOT CHECKED IN FAIRBANKS OFFICE

TAT (circle one): Standard -or- Rush
Received Date: 9/11/09

Received Time: 1030

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
<u>1</u>	<u>5.3</u> °C	<u>FBX 711</u>
_____	_____ °C	_____
_____	_____ °C	_____
_____	_____ °C	_____

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):
 Client / Alert Courier / Lynden / SGS
 UPS / FedEx / USPS / DHL / Carlisle
 AkAir Goldstreak / NAC / ERA / PenAir
 Other: _____

- If this is for PWS, provide PWSID: _____
- Payment received: \$ _____ by Check or Credit Card
- Will courier charges apply?
- Data package required? (Level: 1 / 2 / 3 / 4)
Notes: _____
- Is this a DoD project? (USACE, Navy, AFCEE)

- Additional Sample Remarks: (✓ if applicable)
- Extra Sample Volume?
 - Limited Sample Volume?
 - Multi-Incremental Samples?
 - Lab-filtered for dissolved _____
 - Ref Lab required for _____
 - Foreign Soil?

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

- | Yes | No | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Is received temperature ≤6°C? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were containers ice-free? <i>Notify PM immediately of any ice in samples.</i>
If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected. |
| <input type="checkbox"/> | <input type="checkbox"/> | Was there an airbill? (If "yes," see attached.) |
| <input type="checkbox"/> | <input type="checkbox"/> | Was cooler sealed with custody seals & were they intact?
/ where: _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Was there a COC with cooler? |
| <input type="checkbox"/> | <input type="checkbox"/> | Was COC sealed in plastic bag & taped inside lid of cooler? |
| <input type="checkbox"/> | <input type="checkbox"/> | Was the COC filled out properly? Did labels correspond? |
| <input type="checkbox"/> | <input type="checkbox"/> | Did the COC indicate USACE / Navy / AFCEE project? |
| <input type="checkbox"/> | <input type="checkbox"/> | Samples were packed to prevent breakage with (circle one):
Bubble Wrap Vermiculite Other (specify): _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Were all samples sealed in separate plastic bags? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were all VOCs free of headspace and/or MeOH preserved? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were correct container / sample sizes submitted? |
| <input type="checkbox"/> | <input type="checkbox"/> | Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client? |

This section must be completed if problems are noted.

- Was client notified of problems? Yes / No
- By (SGS PM): _____
- Individual contacted: _____
- Via: Phone / Fax / E-mail (circle one)
- Date/Time: _____
- Reason for contact: _____
- _____
- _____
- _____
- Change Order Required? Yes / No

Notes:

Completed by (sign): Carmon Beene (print): CARMON BEENE

Login proof: Self-check completed _____ Peer-reviewer's Initials JGQ

1094993



SGS WO#:

SAMPLE RECEIPT FORM (page 2)

SGS

#	Container ID	Matrix	Test	QC	TB	Container Volume						Container Type						Preservative																	
						1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	AG	CG	HDPE	Nalgene	Coll	Septa	Other (specify)	None	HCl	HNO ₃	H ₂ SO ₄	MeOH	Na ₂ S ₂ O ₃	NaOH	NaOH+ZnAc	Other (specify)	* Notes						
1-3	A	2	GMO BTEX					3						✓																					
	B		% Solid					3						✓																					
4,5	AC	1	GMO BTEX						6																										
6	A	2	GMO BTEX			✓				1																									
7	AC	1	GRO BTEX			✓						3																							
						Bottle Totals																													

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [Signature] Date: 9/12/09



SAMPLE RECEIPT FORM FOR TRANSFERS

From
FAIRBANKS, ALASKA
To
ANCHORAGE, AK

TO BE COMPLETED IN ANCHORAGE UPON ARRIVAL FROM FAIRBANKS.

NOTES RECORDED BELOW ARE ACTIONS NEEDED UPON ARRIVAL IN ANCHORAGE.

Notes: _____

Receipt Date / Time: 9-18-09 1205

Delivery method to Anchorage (circle all that apply):

Alert Courier / UPS / FedEx / USPS / AA Goldstreak / NAC / ERA / PenAir / Carlisle / Lynden / SGS

Other: _____

Airbill # _____

COOLER AND TEMP BLANK READINGS* #7

<u>Cooler ID</u>	<u>Temp Blank (°C)</u>	<u>Cooler (°C)</u>	<u>Cooler ID</u>	<u>Temp Blank (°C)</u>	<u>Cooler (°C)</u>
<u>1</u>	<u>3.5</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CUSTODY SEALS INTACT: YES / NO

/ WHERE: 2 FRONT & BACK TOP LIN

COMPLETED BY: [Signature]

*Temperature readings include thermometer correction factors.

Attachment 4

REPORT ALL

OIL AND HAZARDOUS SUBSTANCE SPILLS

ALASKA LAW REQUIRES REPORTING OF ALL SPILLS

During normal business hours

contact the nearest DEC Area Response Team office:

Central Area Response Team: Anchorage

**phone: 269-3063
fax: 269-7648**

Northern Area Response Team: Fairbanks

**phone: 451-2121
fax: 451-2362**

Southeast Area Response Team: Juneau

**phone: 465-5340
fax: 465-2237**

Outside normal business hours, call: 1-800-478-9300



Alaska Department of Environmental Conservation
Division of Spill Prevention and Response

Alaska Department of Environmental Conservation

Discharge Notification and Reporting Requirements

AS 46.03.755 and 18 AAC 75 Article 3

Notification of a discharge must be made to the **nearest** Area Response Team during working hours:

Anchorage: 269-3063
269-7648 (FAX)

Fairbanks: 451-2121
451-2362 (FAX)

Juneau: 465-5340
465-2237 (FAX)

OR

to the 24-Hour Emergency Reporting Number during non-working hours: **1-800-478-9300**

Notification Requirements

Hazardous Substance Discharges

Any release of a hazardous substance must be reported as soon as the person has knowledge of the discharge.

Oil Discharges

■ TO WATER

- Any release of oil to water must be reported as soon as the person has knowledge of the discharge.

■ TO LAND

- Any release of oil in **excess of 55 gallons** must be reported as soon as the person has knowledge of the discharge.
- Any release of oil in **excess of 10 gallons but less than 55 gallons** must be reported within 48 hours after the person has knowledge of the discharge.
- A person in charge of a facility or operation shall maintain, and provide to the Department on a monthly basis, a written record of any discharge of oil **from 1 to 10 gallons**.

■ TO IMPERMEABLE SECONDARY CONTAINMENT AREAS

- Any release of oil **in excess of 55 gallons** must be reported within 48 hours after the person has knowledge of the discharge.

Special Requirements for Regulated Underground Storage Tank (UST) Facilities*

If your **release detection system** indicates a possible discharge, or if you notice **unusual operating conditions** that might indicate a release, you must notify the Storage Tank Program at the nearest DEC Office **within 7 days**:

Anchorage: (907) 269-7504
Juneau: (907) 465-5200

Fairbanks: (907) 451-2360
Soldotna: (907) 262-5210

*Regulated UST facilities are defined at 18 AAC 78.005 and do not include heating oil tanks.



Clear Form

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION OIL & HAZARDOUS SUBSTANCES SPILL NOTIFICATION

ADEC SPILL #		ADEC FILE #		ADEC LC	
PERSON REPORTING		PHONE NUMBER		REPORTED HOW? <input type="checkbox"/> Troopers <input type="checkbox"/> phone <input type="checkbox"/> fax	
DATE/ TIME OF SPILL		DATE/TIME DISCOVERED		DATE/TIME REPORTED	
LOCATION/ADDRESS		LAT.		SUBSTANCE TYPE	
		LONG.		A) CR EHS HS NC PW UNK B) CR EHS HS NC PW UNK	
PRODUCT		A)		B)	
QUANTITY SPILLED <input type="checkbox"/> gallons <input type="checkbox"/> pounds		QUANTITY CONTAINED <input type="checkbox"/> gallons <input type="checkbox"/> pounds		QUANTITY RECOVERED <input type="checkbox"/> gallons <input type="checkbox"/> pounds	
QUANTITY DISPOSED <input type="checkbox"/> gallons <input type="checkbox"/> pounds		POTENTIAL RESPONSIBLE PARTY C-Plan Holder? YES <input type="checkbox"/> NO <input type="checkbox"/>		FACILITY TYPE	
SOURCE OF SPILL					<input type="checkbox"/> >400 GT Vessel?
CAUSE OF SPILL (List Primary Cause first)					<input type="checkbox"/> Accident <input type="checkbox"/> Human Factors <input type="checkbox"/> Structural/Mechanical <input type="checkbox"/> Other
CLEANUP ACTIONS					
DISPOSAL METHODS AND LOCATION					
RESOURCES AFFECTED/THREATENED (Water sources, wildlife, wells, etc.)				AIR	LAND
				MARINE	FRESH
				SURF. AREA AFFECTED	SURF. TYPE
COMMENTS					

DEC USE ONLY

SPILL NAME, IF ANY		NAMES OF DEC STAFF RESPONDING		C-PLAN MGR NOTIFIED YES <input type="checkbox"/> NO <input type="checkbox"/> _____	
DEC RESPONSE <input type="checkbox"/> phone follow-up <input type="checkbox"/> field visit <input type="checkbox"/> took report		CASELOAD CODE <input type="checkbox"/> First and Final <input type="checkbox"/> Open/No LC <input type="checkbox"/> LC assigned		CLEANUP CLOSURE ACTION <input type="checkbox"/> NFA <input type="checkbox"/> Monitoring <input type="checkbox"/> Transferred to CS or STP	
STATUS OF CASE (circle) OPEN CLOSED			DATE CASE CLOSED _____		
COMMENTS:					
REPORT PREPARED BY				DATE	