IT Alaska, Inc.
4701 Business Park Boulevard, Suite 36
Anchorage, AK 99503-7166
Tel. 907.562.3452
Fax. 907.563.2814

A Member of The IT Group

October 2, 2000
Project 806256.00600000

Ms. Lynne Bush
Environmental Specialist
Alaska Department of Environmental Conservation
Division of Spill Prevention and Response
Storage Tank Program
555 Cordova Street
Anchorage, Alaska 99501

Re: Corrective Action Report for Facility No. 3308 located at 100 Kenai Street, Whittier, Alaska

Dear Ms. Bush:

IT Alaska, Inc. (IT Alaska), a member of The IT Group, is submitting this Corrective Action Report (CAR) to the Alaska Department of Environmental Conservation (ADEC) on behalf of the Begich Towers Condominiums Association of Apartment Owners, Inc. (BTI). A corrective action (CA) was performed in the vicinity of the former location of one 15,000-gallon-capacity heating fuel underground storage tank (UST), formerly used to provide an emergency source of fuel to the auxiliary generator and the steam boiler for Begich Towers Condominiums. The CA involved the excavation, sampling, and thermal treatment of contaminated soil.

BACKGROUND

The Begich Towers Condominiums are located in Whittier, Alaska (Figure 1). UST Facility No. 3308 is located on the north side of the steam boiler building to the east of Begich Towers (Figure 2).

The UST at Begich Towers Condominiums was a single-walled steel tank encased with lumber. Despite a record search by BTI, the installation date of this UST is not known. While the tank was in operation there were no documented releases; however, soil contamination was identified during the tank closure by removal on September 25, 1999. This contamination is probably the result of overfilling the UST during routine operations. Diesel-range organics (DRO) concentrations in the soil associated with the UST ranged from 160 milligrams per kilogram (mg/kg) to 4,080 mg/kg. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in only one sample, at a combined concentration of 0.301 mg/kg. See Table 1 for a synopsis of the petroleum contamination detected in confirmation samples collected during the closure of the UST. Groundwater was not encountered during the removal of the UST. During the removal of the UST, additional contaminated soil was removed and stockpiled at the site. On December 10, 1999, South Fork Construction transported 92.81 tons of soil to Alaska Soil Recycling in Anchorage, Alaska. Alaska Soil Recycling thermally treated this soil to below Level A cleanup levels on May 8, 2000.

CLEANUP GOALS

ADEC regulations governing the cleanup of petroleum contamination resulting from a release from a regulated UST changed to adopt the allowable cleanup concentrations identified in Title 18, Alaska Administrative Code Chapter 75 (18 [AAC] 75), Articles 3 and 9. Table B2 of 18 AAC 75 allows the use of the current Alaska petroleum methods (AK102), or the use of the aliphatic and aromatic fractions to determine the cleanup concentrations for a site. The cleanup concentrations are also specific to migration pathways. The anticipated pathway at this site is the migration to groundwater for areas in the "over 40 inches of annual rainfall" category. The allowable concentration for DRO at this site is 230 mg/kg.

FIELD OPERATIONS AT BEGICH TOWERS CONDOMINIUMS

A utility locate was conducted prior to field operations so excavation activities will not conflict with subsurface structures.

IT Alaska provided a qualified person to collect screening and confirmation soil samples during the CA; samples were collected from the excavator bucket. The CA was performed in accordance with 18 AAC 78. The soil screening and confirmation sampling was conducted in accordance with the ADEC *UST Procedures Manual*. Southfork Construction provided excavation equipment and operators to perform the removal of and stockpiling of contaminated soil. After the analytical results were returned to IT Alaska, Southfork transported the contaminated soil to Alaska Soil Recycling for thermal treatment.

The initial activity for the CA was to remove the soil returned to the UST excavation in 1999. This soil was mixed with polyethylene sheeting while being placed in the UST excavation in 1999. The soil was screened with a photoionization detector (PID) as it was removed from the UST excavation and was considered clean based in PID readings until a depth of 6.5 feet was reached. The excavation on the east and south sides was kept a minimum distance of 5-feet from existing structures. There was a power pole on the East Side and the boiler plant for Begich Towers on the south side of the excavation. Contaminated soil was removed from the excavation using a tracked excavator and a wheel loader. The excavator placed contaminated soil into the bucket of the wheel loader and the wheel loader took the soil to the temporary stockpile location away from the excavation.

The excavation at the former UST location reached a maximum depth of 11-feet below ground surface (bgs). The excavation's north-south dimension was 30-feet, and its east-west dimension was 32-feet.

During the excavation activities it was observed that the contaminated soil began at approximately 6-feet bgs on the edges of the excavation. PID screening of the soil confirmed that contamination was present as the excavation continued to the east and west. Southfork and BTI had an agreement that the maximum amount of soil to be removed was 100-cubic yards (cy). When the excavation reached the above referenced dimensions the soil stockpile had also

reached approximately 100-cy. In order to determine if the contamination continued off the property, a trench was excavated perpendicular to the UST excavation. The trench extended to within 7-feet of the sidewalk boarding Kenai Street to the north of the excavation. The trench was excavated to a depth of 12-feet bgs. PID screening indicated that contamination was still present in the soil at 12-feet bgs at the mid point of the trench (15-feet from the excavation) and adjacent to Kenai Street (30-feet from the excavation). Contaminated soil removed from the trench was added to the stockpile.

The excavation only reached 12-feet bgs due to the size of the excavator and its inability to remove a compacted soil layer approximately 12-feet bgs. IT field personnel were not able to determine if this compacted soil layer represented the beginning of bedrock or was a residual glacially compacted soil layer.

Excavated soil was stockpiled on a temporary liner. Based on PID readings, the soil that was contaminated was segregated from soil that was not obviously contaminated. When excavation activities ended, stockpile confirmation samples were collected and submitted to the project laboratory for analysis.

The contaminated stockpiled soil was transported to Alaska Soil Recycling in Anchorage the week of September 11, 2000. Alaska Soil Recycling will thermally treat the soil in the fall of 2000 before they shut down for the winter or it will be processed in the spring of 2001. Stockpiled soil that was not above the cleanup level was returned to the excavation. The excavation was backfilled with locally available material the week of September 11, 2000.

Soil Sampling Activities

A qualified person from IT Alaska collected screening and confirmation soil samples from the excavator bucket. Headspace screening was performed for approximately every 10 cubic yards of excavated material. A Ziploc® bag was filled to 50 percent of capacity and warmed. After 15 minutes, the tip of the PID was inserted into the bag and the highest reading recorded.

Soil samples from the excavation were submitted to Columbia Analytical Services, Inc. (CAS), in Anchorage, Alaska for BTEX and DRO analysis by EPA Method 8021B and Alaska Method 102, respectively.

The Petro Flag® screening samples outlined in the Corrective Action Plan (CAP) were not collected due to the presence of contaminated soil throughout the excavation. These screening samples were to be used to determine if the extents of the excavation had reached an area with no petroleum products in the soil above the cleanup level of 230 mg/kg. The CA was not able to reach any area with in the property boundaries that was not obviously contaminated above the cleanup level before reaching the contracted amount of stockpiled contaminated soil and halting the CA activities. See Figure 3.

Table 2 shows the results of the analytical samples collected during the CA. Only one of the samples from the excavation was below the cleanup level. The appropriate number of samples for the surface area of the excavation was not accomplished due to the depth of the excavation and the slope of the sidewalls. These two factors created a very small excavation floor (3-feet wide by 8-feet long into the trench area) that was obviously contaminated above the cleanup level based on PID readings and visual observations. Due to the limited reach of the excavator and the density of the compacted soil layer at this depth a representative soil sample could not be retrieved from the excavation floor. PID screening samples were performed on gravel and rocks removed from the excavation floor.

SUMMARY AND CONCLUSIONS

Based on the results of the CA sampling the subsurface area around the former UST is contaminated above the applicable ADEC cleanup levels. There is a dense, compacted soil layer at 12-feet bgs that may represent bedrock. This soil layer may impede downward migration of contamination, but assist in the lateral migration of contamination down gradient from the site. Groundwater was not observed in the excavation, and the depth to groundwater at the site is not known. An undetermined amount of contaminated soil is still present at the site. The vertical and horizontal extent of the contamination is not known. The majority of the contaminated soil directly associated with the UST was removed and thermally treated during the UST removal and the CA.

Sincerely,

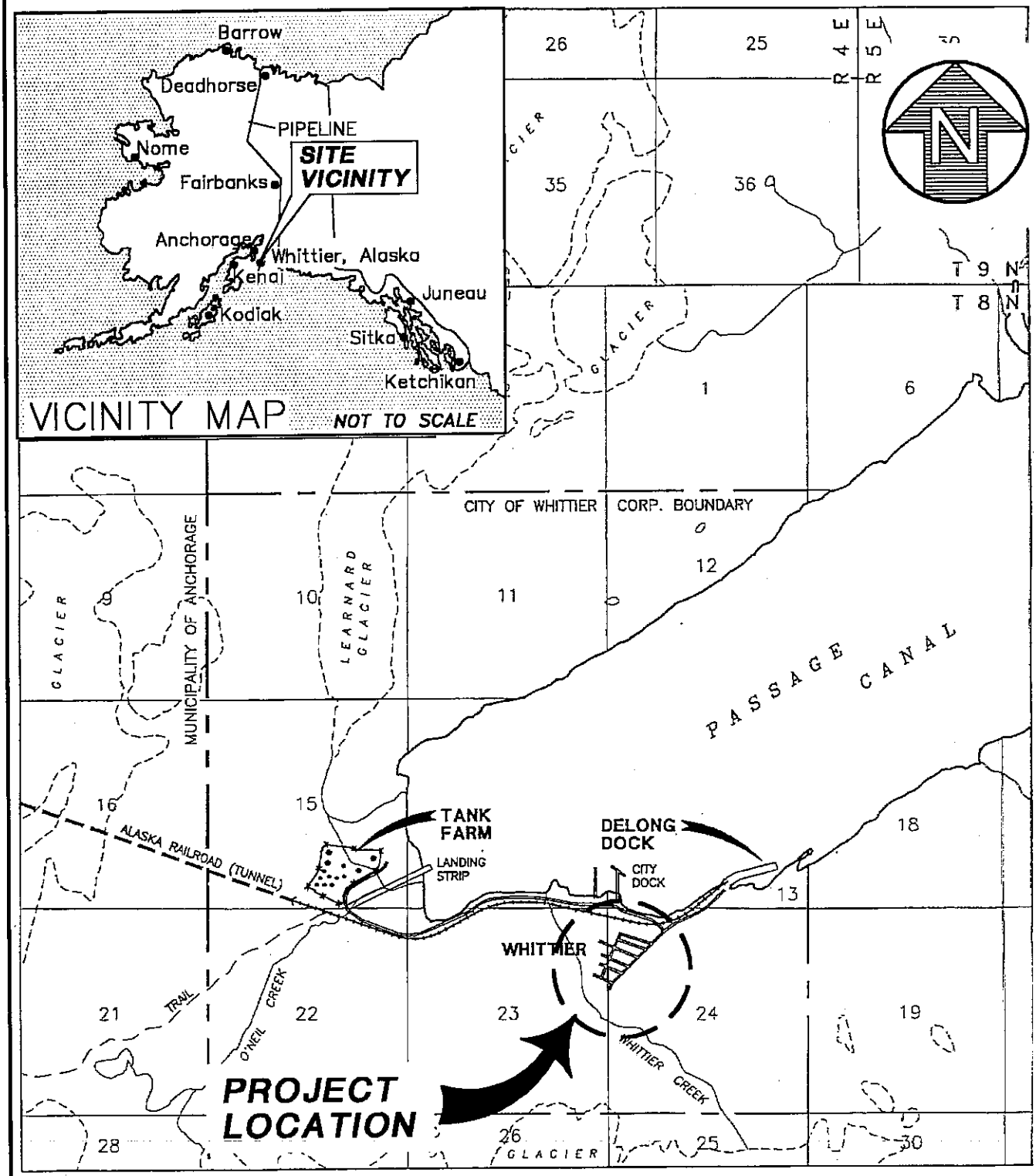
IT Alaska, Inc.

Lance Raymore
Project Manager

Attachments: Figures 1, 2, and 3
Tables 1 and 2
Corrective Action Analytical Data Package

cc: Gaylen Grandsbury, Association Manger, BTI

FIGURES



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IT ALASKA, INC.
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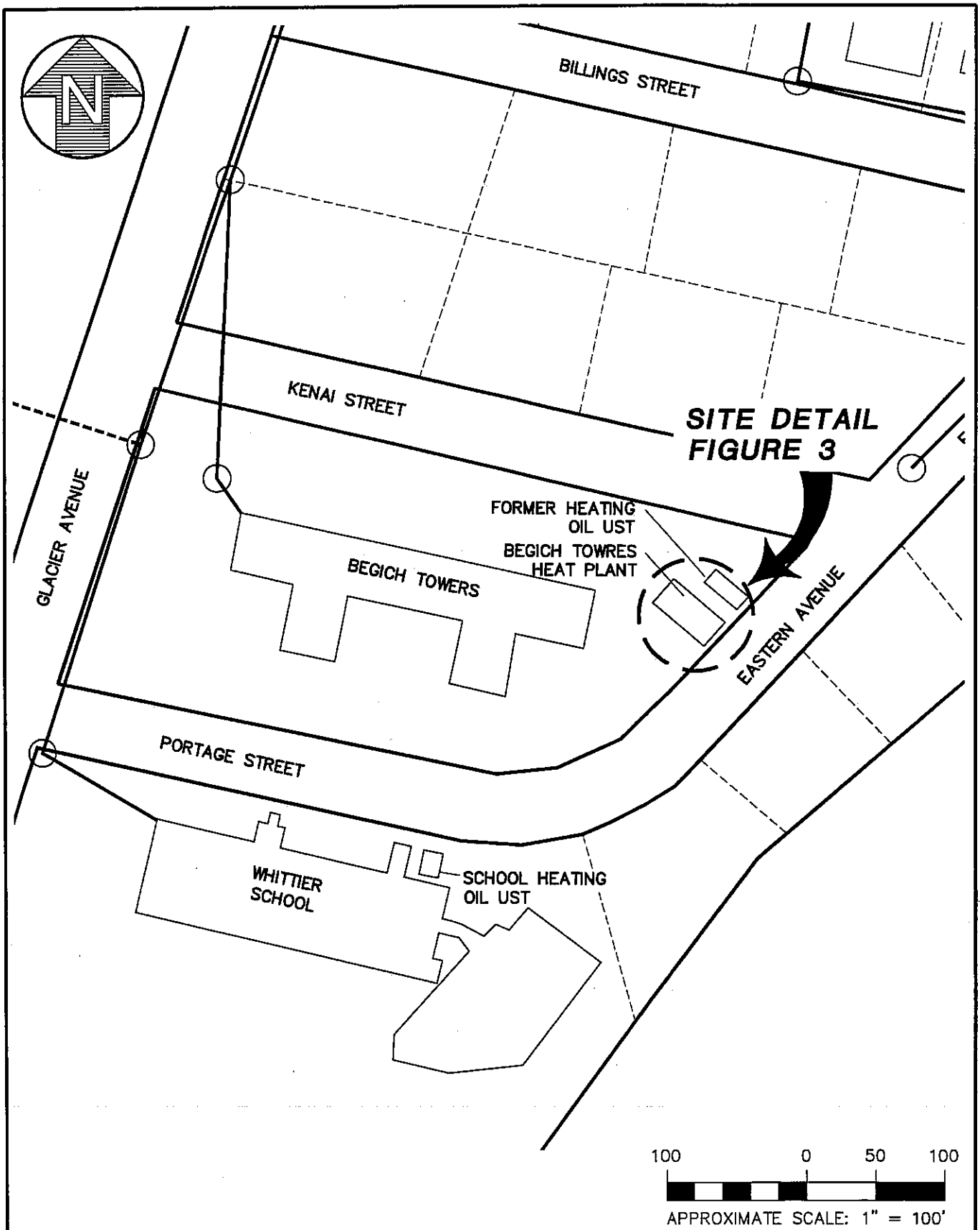
DATE	MAR. 2000
DWN.	806256_01A_01.DWG
CKD.	L. RAYMORE
REV.	0
PROJECT No.	806256

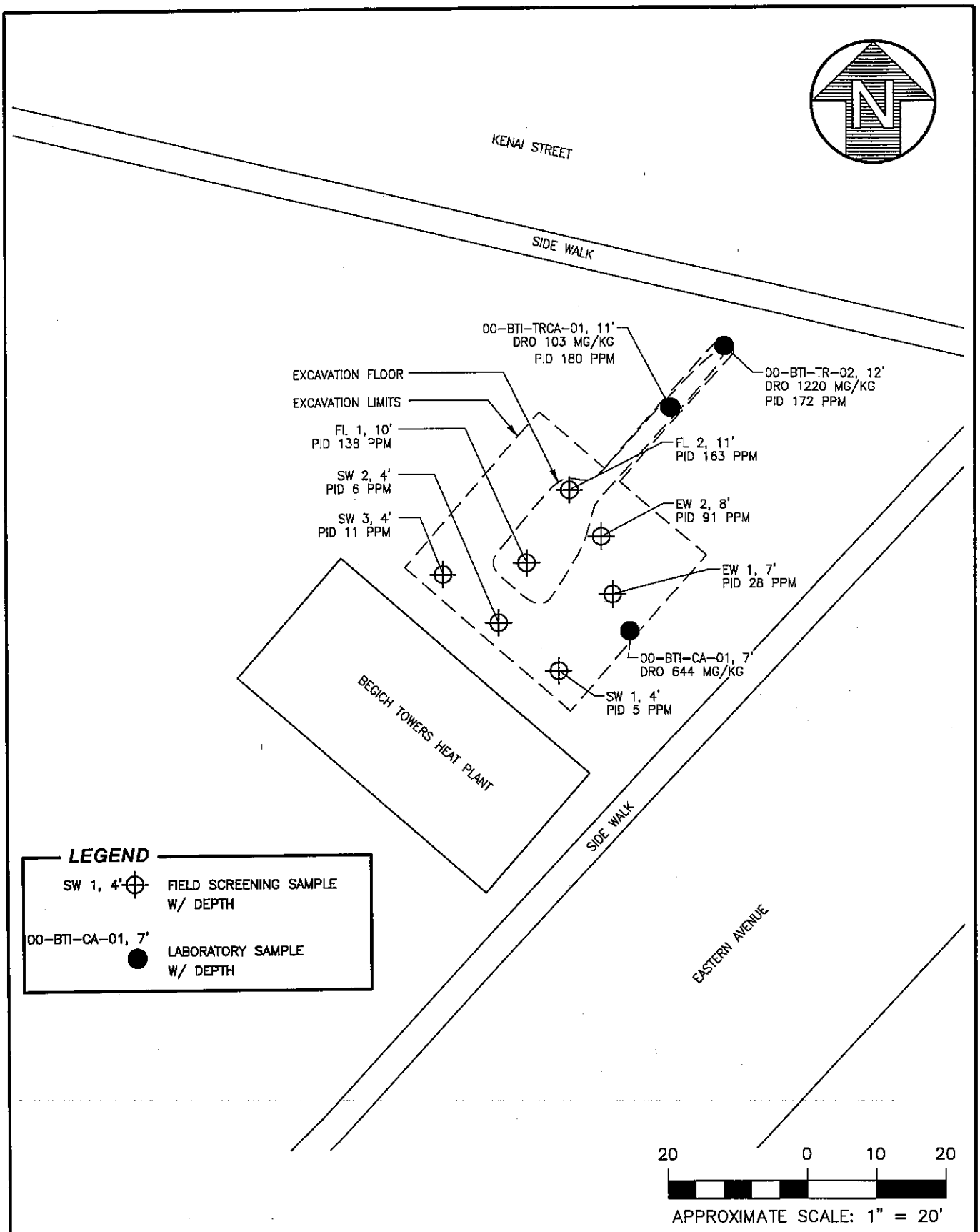
RELEASE INVESTIGATION
BEGICH TOWERS, INC.
Whittier, Alaska

SITE LOCATION MAP

FIGURE
1



IT ALASKA, INC. A Member of The IT Group 4701 Business Park Blvd Suite 36 Anchorage, Alaska 99503-7106 (907) 562-3452 Fax (907) 563-2514	DATE MAR. 2000 DWN. 806256_01A_02.DWG CKD. L. RAYMORE REV. 0 PROJECT No. 806256	CORRECTIVE ACTION BEGICH TOWERS, INC. Whitter, Alaska **SITE MAP**	FIGURE **2**



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DATE MAR. 2000
DWN. 806256_01A_03.DWG
CKD. L. RAYMORE
REV. 0
PROJECT No. 806256

CORRECTIVE ACTION
BEGICH TOWERS, INC.
Whittier, Alaska

SITE DETAIL

FIGURE 3

TABLES

Table 1
Diesel UST Excavation Soil Sample Analytical Results
Begich Towers Condominiums, Whittier, Alaska

Sample Identification	Sample Depth	Date Sample Collected	BTEX – EPA Method 8021B				Alaska Method 102
			Benzene mg/kg	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)
99-SF-BG-3308 001-SL (Background)	NA	9/25/99	ND	ND	ND	ND	36.9
99-SF-OB1-3308 002-SL (Overburden)	NA	9/25/99	ND	ND	ND	ND	1,170
99-SF-OB2-3308 003-SL (Overburden)	NA	9/25/99	ND	ND	ND	ND	888
99-SF-PT1-3308 005-SL (Pipe trench)	4'	9/25/99	ND	ND	ND	ND	160
99-SF-TP2-3308 007-SL (Tank pit, bottom-center)	11.5'	9/25/99	ND	ND	ND	ND	4,080
99-SF-TP2-3308 007-SL (Tank pit, bottom-end)	11.5'	9/25/99	ND	ND	0.0641	0.2372	2,740
ADEC Method Two Soil Cleanup Standards (18 AAC 75)		--	0.02	4.8	5	69	230

Note: AAC – Alaska Administrative Code
EPA – U.S. Environmental Protection Agency
BTEX – Benzene, toluene, ethylbenzene, and xylenes
mg/kg – milligrams per kilogram
NA – not applicable
ND – not detected above method reporting limit

Table 2
Corrective Action Soil Sample Analytical Results
Begich Towers Condominiums, Whittier, Alaska

Sample Identification	Sample Depth	Date Sample Collected	BTEX – EPA Method 8021B				Alaska Method 102	Alaska Method 103
			Benzene mg/kg	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	RRO (mg/kg)
00-BTI-CA-01 (Excavation)	7	8/8/00	ND	ND	ND	0.05	644	ND
00-BTI-TR-01 (Trench)	11	8/8/00	ND	ND	ND	ND	103	ND
00-BTI-TR-02 (Trench)	12	8/8/00	ND	ND	ND	ND	1220	ND
00-BTI-SP-01 (Stockpile)	NA	8/8/00	ND	ND	ND	0.12	998	ND
00-BTI-SP-02 (Stockpile)	NA	8/8/00	ND	ND	ND	0.15	883	ND
00-BTI-SP-03 (Stockpile)	NA	8/8/00	ND	ND	ND	0.06	2390	ND
ADEC Method Two Soil Cleanup Standards (18 AAC 75)			0.02	4.8	5	69	230	9700

Note: AAC – Alaska Administrative Code
EPA – U.S. Environmental Protection Agency
BTEX – Benzene, toluene, ethylbenzene, and xylenes
mg/kg – milligrams per kilogram
NA – not applicable
ND – not detected above method reporting limit

ANALYTICAL DATA PACKAGE

Columbia Analytical Services INC.
An Employee-Owned Company

October 3, 2000

Service Request No: K2006124
A2000495

Lance Raymore
International Technology Corporation
4701 Business Park Boulevard, Suite 36
Anchorage, AK 99503-7166

Re: BTI - Corrective Action/806256

Dear Lance:

Enclosed are the results of the sample(s) submitted to our laboratory on August 9, 2000. For your reference, these analyses have been assigned our service request number K2006124 and Anchorage, Alaska's service request number A2000495.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions. My extension is 3345.

Respectfully submitted,

Columbia Analytical Services, Inc.

Mingta Lin
Project Chemist

ML/ll

1317 South 13th Avenue • P.O. Box 479 • Kelso, Washington 98626 • Telephone 360/ 577-7222 • Fax 360/636-1068

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The reported value is estimated because of the presence of matrix interference.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	IT Corporation	**Service Request No.:**	K2006124
Project:	BTI - Corrective Action	**Date Received:**	8/9/00
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for sample(s) designated for Tier IIA data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

All EPA recommended holding times have been met for analyses in this sample delivery group.

The following difficulties were experienced during analysis of this batch:

PAHs

The MS/DMS was performed on a batch QC sample, which contained elevated levels of analytes and required dilution for the analysis. The surrogates in the MS/DMS were therefore not recovered due to the dilution. The MS/DMS was not applicable to evaluating the analytical accuracy. The associated QC results (e.g., LCS recovery) indicated that the analysis was in control. No further corrective action was taken.

Approved by mth **Date** 9/20/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: K2006124
Date Collected: 8/8/00
Date Received: 8/9/00

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Analyzed	Result	Result Notes
00-BTI-CA-01	K2006124-001	8/15/00	91.0	

Approved By: _____ Date: 8/24/00

TSOLIDS.XLT_Sample/01071998a

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	8/8/00
Sample Matrix:	Soil	**Date Received:**	8/9/00

Total Solids

Prep Method:	NONE	Units:	PERCENT
Analysis Method:	160.3 Modified	Basis:	Wet
Test Notes:			

Sample Name	Lab Code	Date Analyzed	Result	Result Notes
00-BTI-CA-01	A2000495-001	8/12/00	92.2	
00-BTI-TR-01	A2000495-002	8/12/00	93.5	
00-BTI-TR-02	A2000495-003	8/12/00	91.6	
00-BTI-SP-01	A2000495-004	8/12/00	86.5	
00-BTI-SP-02	A2000495-005	8/12/00	90.7	
00-BTI-SP-03	A2000495-006	8/12/00	90.7	

Approved By: _____ Date: 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: A2000495
Date Collected: 8/8/00
Date Received: 8/9/00

Diesel Range Organics (DRO)

Prep Method: EPA 3540C
Analysis Method: AK 102.0
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
00-BTI-CA-01	A2000495-001	10	1	8/11/00	8/14/00	644	
00-BTI-TR-01	A2000495-002	10	1	8/11/00	8/14/00	103	
00-BTI-TR-02	A2000495-003	10	1	8/11/00	8/14/00	1220	
00-BTI-SP-01	A2000495-004	10	1	8/11/00	8/14/00	998	
00-BTI-SP-02	A2000495-005	10	1	8/11/00	8/14/00	883	
00-BTI-SP-03	A2000495-006	10	1	8/11/00	8/14/00	2390	
Method Blank	A200811-MB	10	1	8/11/00	8/14/00	ND	

Approved By: _____ Date: 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: A2000495
Date Collected: 8/8/00
Date Received: 8/9/00

Residual Range Organics (RRO)

Prep Method: EPA 3540C
Analysis Method: AK 103.0
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
00-BTI-CA-01	A2000495-001	100	1	8/11/00	8/14/00	ND	
00-BTI-TR-01	A2000495-002	100	1	8/11/00	8/14/00	ND	
00-BTI-TR-02	A2000495-003	100	1	8/11/00	8/14/00	ND	
00-BTI-SP-01	A2000495-004	100	1	8/11/00	8/14/00	ND	
00-BTI-SP-02	A2000495-005	100	1	8/11/00	8/14/00	ND	
00-BTI-SP-03	A2000495-006	100	1	8/11/00	8/14/00	ND	
Method Blank	A200811-MB	100	1	8/11/00	8/14/00	ND	

Approved By: _____ Date: 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	8/8/00
Sample Matrix:	Soil	**Date Received:**	8/9/00

Aromatic Volatile Organics (BTEX)

Sample Name:	00-BTI-CA-01	Units:	mg/Kg (ppm)
Lab Code:	A2000495-001	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzene	AK 101.0	8021B	0.02	1	8/8/00	8/17/00	ND	
Toluene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Ethylbenzene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Xylenes, Total	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	0.05	

Approved By: _____ Date: 8/29/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: A2000495
Date Collected: 8/8/00
Date Received: 8/9/00

Aromatic Volatile Organics (BTEX)

Sample Name: 00-BTI-TR-01
Lab Code: A2000495-002
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzene	AK 101.0	8021B	0.02	1	8/8/00	8/17/00	ND	
Toluene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Ethylbenzene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Xylenes, Total	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	

Approved By: _____ Date: 8/29/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	8/8/00
Sample Matrix:	Soil	**Date Received:**	8/9/00

Aromatic Volatile Organics (BTEX)

Sample Name:	00-BTI-TR-02	Units:	mg/Kg (ppm)
Lab Code:	A2000495-003	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzene	AK 101.0	8021B	0.02	1	8/8/00	8/17/00	ND	
Toluene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Ethylbenzene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Xylenes, Total	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	

Approved By: _____ Date: 8/29/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	8/8/00
Sample Matrix:	Soil	**Date Received:**	8/9/00

Aromatic Volatile Organics (BTEX)

Sample Name:	00-BTI-SP-01	Units:	mg/Kg (ppm)
Lab Code:	A2000495-004	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzene	AK 101.0	8021B	0.02	1	8/8/00	8/17/00	ND	
Toluene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Ethylbenzene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Xylenes, Total	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	0.12	

Approved By: _____ Date: 8/29/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: A2000495
Date Collected: 8/8/00
Date Received: 8/9/00

Aromatic Volatile Organics (BTEX)

Sample Name: 00-BTI-SP-02
Lab Code: A2000495-005
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzene	AK 101.0	8021B	0.02	1	8/8/00	8/17/00	ND	
Toluene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Ethylbenzene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Xylenes, Total	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	0.15	

Approved By: _____ Date: 8/29/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	8/8/00
Sample Matrix:	Soil	**Date Received:**	8/9/00

Aromatic Volatile Organics (BTEX)

Sample Name:	00-BTI-SP-03	Units:	mg/Kg (ppm)
Lab Code:	A2000495-006	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzene	AK 101.0	8021B	0.02	1	8/8/00	8/17/00	ND	
Toluene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Ethylbenzene	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	ND	
Xylenes, Total	AK 101.0	8021B	0.05	1	8/8/00	8/17/00	0.06	

Approved By: _____ Date: 8/29/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	8/8/00
Sample Matrix:	Soil	**Date Received:**	8/9/00

Aromatic Volatile Organics (BTEX)

Sample Name:	Trip Blank	Units:	mg/Kg (ppm)
Lab Code:	A2000495-007	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzene	AK 101.0	8021B	0.02	1	8/8/00	8/16/00	ND	
Toluene	AK 101.0	8021B	0.05	1	8/8/00	8/16/00	ND	
Ethylbenzene	AK 101.0	8021B	0.05	1	8/8/00	8/16/00	ND	
Xylenes, Total	AK 101.0	8021B	0.05	1	8/8/00	8/16/00	ND	

Approved By: _____ Date: 8/29/00

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Aromatic Volatile Organics (BTEX)

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	A200816-MB	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzene	AK 101.0	8021B	0.02	1	8/16/00	8/16/00	ND	
Toluene	AK 101.0	8021B	0.05	1	8/16/00	8/16/00	ND	
Ethylbenzene	AK 101.0	8021B	0.05	1	8/16/00	8/16/00	ND	
Xylenes, Total	AK 101.0	8021B	0.05	1	8/16/00	8/16/00	ND	

Approved By: _____ Date: 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	IT Corporation	**Service Request:**	K2006124
Project:	BTI - Corrective Action/806256	**Date Collected:**	8/8/00
Sample Matrix:	Soil	**Date Received:**	8/9/00

Polynuclear Aromatic Hydrocarbons

Sample Name:	00-BTI-CA-01	Units:	ug/Kg (ppb)
Lab Code:	K2006124-001	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Naphthalene	EPA 3541	SIM	5	2	8/14/00	8/28/00	8	
2-Methylnaphthalene	EPA 3541	SIM	5	2	8/14/00	8/28/00	19	
Acenaphthylene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Acenaphthene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Dibenzofuran	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Fluorene	EPA 3541	SIM	5	2	8/14/00	8/28/00	35	
Phenanthrene	EPA 3541	SIM	5	2	8/14/00	8/28/00	63	
Anthracene	EPA 3541	SIM	5	2	8/14/00	8/28/00	7	
Fluoranthene	EPA 3541	SIM	5	2	8/14/00	8/28/00	13	
Pyrene	EPA 3541	SIM	5	2	8/14/00	8/28/00	17	
Benz(a)anthracene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Chrysene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Benzo(b)fluoranthene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Benzo(k)fluoranthene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Benzo(a)pyrene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Indeno(1,2,3-cd)pyrene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Dibenz(a,h)anthracene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	
Benzo(g,h,i)perylene	EPA 3541	SIM	5	2	8/14/00	8/28/00	ND	

Approved By: Carol C. Haines Date: SEP 19 2000

1S22/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: K2006124
Date Collected: NA
Date Received: NA

Polynuclear Aromatic Hydrocarbons

Sample Name: Method Blank
Lab Code: KWG2003218-4
Test Notes:

Units: ug/Kg (ppb)
Basis: Dry

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Naphthalene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
2-Methylnaphthalene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Acenaphthylene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Acenaphthene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Dibenzofuran	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Fluorene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Phenanthrene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Anthracene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Fluoranthene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Pyrene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Benz(a)anthracene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Chrysene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Benzo(b)fluoranthene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Benzo(k)fluoranthene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Benzo(a)pyrene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Indeno(1,2,3-cd)pyrene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Dibenz(a,h)anthracene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	
Benzo(g,h,i)perylene	EPA 3541	SIM	5	2	8/14/00	9/7/00	ND	

Approved By: Carol C. Haines Date: SEP 19 2000

1S22/020597p

APPENDIX A

Laboratory QC Results

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: A2000495
Date Collected: 8/8/00
Date Received: 8/9/00

Duplicate Summary
Total Solids

Prep Method: NONE
Analysis Method: 160.3 Modified
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Analyzed	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
00-BTI-SP-02	A2000495-005DUP	8/12/00	90.7	88.0	89.4	3	

Approved By: _____ Date: 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: K2006124
Date Collected: 8/8/00
Date Received: 8/9/00

Duplicate Summary

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Analyzed	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
00-BTI-CA-01	K2006124-001DUP	8/15/00	91.0	91.3	91.2	<1	

Approved By: _____ Date: 8/24/00

TSOLIDS.XLT_DUP/09291998a

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: A2000495
Date Collected: 8/8/00
Date Received: 8/9/00
Date Extracted: 8/11/00
Date Analyzed: 8/14/00

Surrogate Recovery Summary
Diesel Range Organics (DRO)

Prep Method: EPA 3540C
Analysis Method: AK 102.0

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery o-Terphenyl
00-BTI-CA-01	A2000495-001		103
00-BTI-TR-01	A2000495-002		89
00-BTI-TR-02	A2000495-003		90
00-BTI-SP-01	A2000495-004		96
00-BTI-SP-02	A2000495-005		108
00-BTI-SP-03	A2000495-006		96
Method Blank	A200811-MB		96
Lab Control Sample	A200811-LCS		113
Lab Control Sample	A200811-DLCS		103

CAS Acceptance Limits: 63-133

Approved By: _____ Date: 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	NA
LCS Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	8/11/00
		Date Analyzed:	8/14/00

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Diesel Range Organics (DRO)

Sample Name:	Lab Control Sample	Units:	mg/Kg (ppm)
Lab Code:	A200811-LCS, A200811-DLCS	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Diesel Range Organics (DRO)	EPA 3540C	AK 102.0	830	830	876	867	106	104	60-132	1	

Approved By: _____ Date: 8/29/00

DLCS/080797p
00495PHC.TF1 - DLCS 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: A2000495
Date Collected: 8/8/00
Date Received: 8/9/00
Date Extracted: 8/11/00
Date Analyzed: 8/14/00

Surrogate Recovery Summary
Residual Range Organics (RRO)

Prep Method: EPA 3540C
Analysis Method: AK 103.0

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery n-Triacontane
00-BTI-CA-01	A2000495-001		79
00-BTI-TR-01	A2000495-002		87
00-BTI-TR-02	A2000495-003		86
00-BTI-SP-01	A2000495-004		88
00-BTI-SP-02	A2000495-005		97
00-BTI-SP-03	A2000495-006		89
Method Blank	A200811-MB		101
Lab Control Sample	A200811-LCS		95
Lab Control Sample	A200811-DLCS		89

CAS Acceptance Limits: 59-148

Approved By: _____ Date: 8/24/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	IT Corporation	**Service Request:**	A2000495
Project:	BTI - Corrective Action/806256	**Date Collected:**	NA
LCS Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	8/11/00
		Date Analyzed:	8/14/00

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Residual Range Organics (RRO)

Sample Name:	Lab Control Sample	Units:	mg/Kg (ppm)
Lab Code:	A200811-LCS, A200811-DLCS	Basis:	Dry
Test Notes:			

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLCS	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Residual Range Organics (RRO)	EPA 3540C	AK 103.0	830	830	760	740	92	89	66-124	3	

Approved By: _____ Date: 8/24/00

DLCS/080797p
00495PHC.TF2 - DLCS 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: A2000495
Date Collected: 8/8/00
Date Received: 8/9/00
Date Extracted: 8/8/00
Date Analyzed: 8/17/00

Surrogate Recovery Summary
Aromatic Volatile Organics (BTEX)

Prep Method: AK 101.0
Analysis Method: 8021B

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery 4-Bromofluorobenzene
00-BTI-CA-01	A2000495-001		96
00-BTI-TR-01	A2000495-002		83
00-BTI-TR-02	A2000495-003		88
00-BTI-SP-01	A2000495-004		108
00-BTI-SP-02	A2000495-005		119
00-BTI-SP-03	A2000495-006		104
Trip Blank	A2000495-007		109
Method Blank	A200816-MB		100
Lab Control Sample	A200816-LCS		107
Lab Control Sample	A200816-DLCS		103

CAS Acceptance Limits: 60-135

Approved By: _____ Date: 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
LCS Matrix: Soil

Service Request: A2000495
Date Collected: NA
Date Received: NA
Date Extracted: 8/16/00
Date Analyzed: 8/16/00

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary
Aromatic Volatile Organics (BTEX)

Sample Name: Lab Control Sample
Lab Code: A200816-LCS, A200816-DLCS
Test Notes:

Units: mg/Kg (ppm)
Basis: Dry

Analyte	Prep Method	Analysis Method	True Value LCS	True Value DLC	Result LCS	Result DLCS	Percent Recovery LCS	Percent Recovery DLCS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Benzene	AK 101.0	8021B	2.5	2.5	2.49	2.43	100	97	71-128	2	
Toluene	AK 101.0	8021B	2.5	2.5	2.54	2.48	102	99	74-125	2	
Ethylbenzene	AK 101.0	8021B	2.5	2.5	2.6	2.52	104	101	71-122	3	
Xylenes, Total	AK 101.0	8021B	7.5	7.5	7.83	7.63	104	102	71-122	3	

Approved By: _____ Date: 8/29/00

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: K2006124
Date Collected: NA
Date Received: NA
Date Extracted: 8/14/00
Date Analyzed: 9/22/00

Matrix Spike/Duplicate Matrix Spike Summary
Polynuclear Aromatic Hydrocarbons

Sample Name: Batch QC
Lab Code: K2006050-005MS, K2006050-005DMS
Test Notes:

Units: ug/Kg (ppb)
Basis: Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Percent Recovery MS	Percent Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Acenaphthene	EPA 3541	SIM	100	290	290	ND	270	260	93	90	57-120	4	
Pyrene	EPA 3541	SIM	100	290	290	510	1200	1100	238	203	36-144	9	*
Benzo(a)pyrene	EPA 3541	SIM	100	290	290	ND	290	290	100	100	45-140	<1	

Approved By: Carol C. Haines Date: OCT 01 2000

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
Sample Matrix: Soil

Service Request: K2006124
Date Collected: 8/8/00
Date Received: 8/9/00
Date Extracted: 8/14/00
Date Analyzed: 8/28-9/22/00

Surrogate Recovery Summary
Polynuclear Aromatic Hydrocarbons

Prep Method: EPA 3541
Analysis Method: SIM

Units: PERCENT
Basis: NA

Sample Name	Lab Code	Test Notes	Percent Recovery Fluorene-d10	Fluoranthene-d10	Terphenyl-d14
00-BTI-CA-01	K2006124-001		88	71	73
Batch QC	K2006050-005		0 *	0 *	0 *
Batch QC	K2006050-005MS		0 *	0 *	0 *
Batch QC	K2006050-005DMS		0 *	0 *	0 *
Lab Control Sample	KWG2003218-3		71	63	75
Method Blank	KWG2003218-4		78	81	91

CAS Acceptance Limits:	37-122	49-118	30-140

Approved By: Carol C. Harris Date: OCT 01 2000

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation
Project: BTI - Corrective Action/806256
LCS Matrix: Soil

Service Request: K2006124
Date Collected: NA
Date Received: NA
Date Extracted: 8/14/00
Date Analyzed: 8/28/00

Laboratory Control Sample Summary
Polynuclear Aromatic Hydrocarbons

Sample Name: Lab Control Sample
Lab Code: KWG2003218-3
Test Notes:

Units: ug/Kg (ppb)
Basis: Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Acenaphthene	EPA 3541	SIM	500	350	70	30-116	
Pyrene	EPA 3541	SIM	500	430	86	25-129	
Benzo(a)pyrene	EPA 3541	SIM	500	370	74	29-129	

Approved By: Carol C. Haines Date: SEP 19 2000

APPENDIX B

Chain-of-Custody Information

Columbia Analytical Services
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

4600 Business Park Blvd., Suite 32 • Anchorage, AK 99503 • (907) 563-0846 • FAX (907) 563-2973

DATE 8/8/00 PAGE 1 OF 1

S.R.# A2000495

00032

PROJECT NAME BTI - Corrective Action # 806256

PROJECT MANAGER Lange Raymore

COMPANY/ADDRESS IT - Alaska

4701 Business Park Blvd, Ste 36

Anchorage AK 99504 PHONE 868-4121

FAX # 563-2814

LAB I.D.	SAMPLE I.D.	DATE	TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	ISR CONTAINERS	Base/Neu/Acid Organics GC/MS 625 ☐ 8270 ☐	Volatile Organics GC/MS 624 ☐ 8260 ☐	Halogenated 8021 ☐ Aromatic Volatiles 8021 ☐	Pesticides 8081 ☐ PCBs 8082 ☐	Total Petroleum Hydrocarbons 418.1 ☐ 413.2 ☐	DRO/AK 102 X RRO/AK103 ☐	GRO/AK101 ☐ BTEX 8021B GRO/8015 ☐	pH, Cond, Cl, SO_4, PO_4, F, Br NO_2, NO_3 (circle)	NH_3-N, COD, Total-P, TKN, TOC (circle)	Cyanide	Dissolved Metals ☐ Filter in Lab ☐ Total Metals ☐ Circle below TCLP Metals ☐ Semi VOA ☐ VOA ☐ Pest/Herb ☐	PAH (SIM) 8270			REMARKS
1	00-BTI-CA-01	8/8/00	1450	Soil	3							X	X					X			
2	00-BTI-TR-01		1700		2							X	X								
3	00-BTI-TR-02		1705		2							X	X								
4	00-BTI-SP-01		1730		2							X	X								
5	00-BTI-SP-02		1735		2							X	X								
6	00-BTI-SP-03		1740		2							X	X								
7	TRIP BLANK				1								X								

SHADED AREAS FOR LAB USE ONLY.

RELINQUISHED BY:
Signature
Printed Name: Matthew M Flynn
Firm: IT-AK
Date/Time: 8/9/00 1543

RECEIVED BY:
Signature
Printed Name: Nicholle Wycoff
Firm: CAS AK
Date/Time: 8/9/00 1543

RELINQUISHED BY:
Signature
Printed Name
Firm: CAS
Date/Time: 8/10/00 11:30

RECEIVED BY:
Signature
Printed Name: Lori C. Hawn
Firm: CAS-K
Date/Time: 8/10/00 1200

TURNAROUND REQUIREMENTS

___ 1 day ___ 2 day ___ 5 day

X Standard (10-15 working days)

___ Provide Verbal Preliminary Results

___ Provide FAX preliminary Results

Requested Report Date ___

REPORT REQUIREMENTS

X I. Routine Report

___ II. Report (includes DUP, MS, MSD, as required, may be charged as samples)

___ III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

___ ADEC Deliverables

___ ACOE Deliverables

INVOICE INFORMATION:

P.O.# ___

Bill To: ___

SAMPLE RECEIPT:

S.R. #: ___

Temp: ___

COC Seals: ___

Condition: ___

Shipping Via: ___

Shipping #: ___

SPECIAL INSTRUCTIONS/COMMENTS:

TB: 3.5°

Circle which metals are to be analyzed:

Total Metals: As Sb Ba Be Ca Cd Co Cr Cu Fe Pb Mg Mn Ni Ag Se Tl V Zn Hg Na K Al

Dissolved Metals: As Sb Ba Be Ca Cd Co Cr Cu Fe Pb Mg Mn Ni Ag Se Tl V Zn Hg Na K Al

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

400-5