

Northern Test Lab

September 25, 1998
Ammended March 23.1999

98170

RECEIVED

APR - 8 1999

Department of
Environmental Conservation
KDO

Mr. Ed Saltz
Saltz General Contractors
P.O. Box 747
Soldotna, Alaska 99669

Subject: Underground Storage Tank Removal and Soil Sampling at Saltz General Contractors,
Mile 18.3 Kalifornsky Beach Road, Soldotna, AK
Facility ID #0422

Mr. Saltz:

Northern Test Lab was retained by Saltz General Contractors on August 21, 1998 to perform an environmental assessment and sample the soil for the removal of two underground storage tanks (USTs) located in the NE ¼, NW ¼ Sec. 26, T5N, R11W SM., in Soldotna, AK on September 10, 1998.

Background

Two 3000 gallon USTs were placed side by side approximately 15 years ago. One tank contained diesel fuel, the other gasoline. Tank records indicate no spills or leaks occurred prior to removal. The tanks were removed by a local contractor, Harold Jackson. No spilled product was encountered during the tank removal. The tanks were located approximately 75 feet north of the Saltz building. The bottom of the tanks were placed approximately 12' below the surface and backfilled with gravelly sand. No pipe lines extended beyond the tanks, only fill/dispenser and vent pipes on top of the tanks were observed. The dispensers were attached directly above the tanks. Limits of excavation and UST placement is shown in Figure 1.

Methods

Prior to final sampling, organic vapor monitor (OVM) samples were screened to evaluate the presence of volatile organic vapors. The OVM results are shown in the table below:

Location, Depth	Results, ppm
Gasoline Tank Fill Pipe, -1'	0
Gasoline Tank, East side wall, -8'	0

Diesel Tank Fill Pipe, -0.5'	0
Diesel Tank, North side wall, -10'	0
Gasoline and Diesel Tanks, West side wall, -8'	0
Diesel Tank, Bottom of tank, West end, -12'	0
Diesel Tank, Bottom of tank, Center, -12'	0
Gasoline Tank, Bottom of tank, West end, -12'	0
Gasoline Tank, Bottom of tank, Center, -12'	0

A total of six samples were collected from the sides and bottoms of the tanks and sent to CT&E for analysis. The samples were analyzed for GRO/BTEX. Because NTL was not informed there was a diesel tank prior to DEC submittal of sample work plan, samples were not sampled or analyzed for diesel range organics. The soils samples collected below the tanks were native soils. No visible evidence of contamination was observed under or around the tanks or fill pipes. Collection locations and depths are shown in Figure 2.

Summary

The attached results from CT&E laboratory indicate the GRO/BTEX levels are below ADEC Level A cleanup standards and final closure from ADEC is recommended.

If you have any questions regarding this report please contact our office.

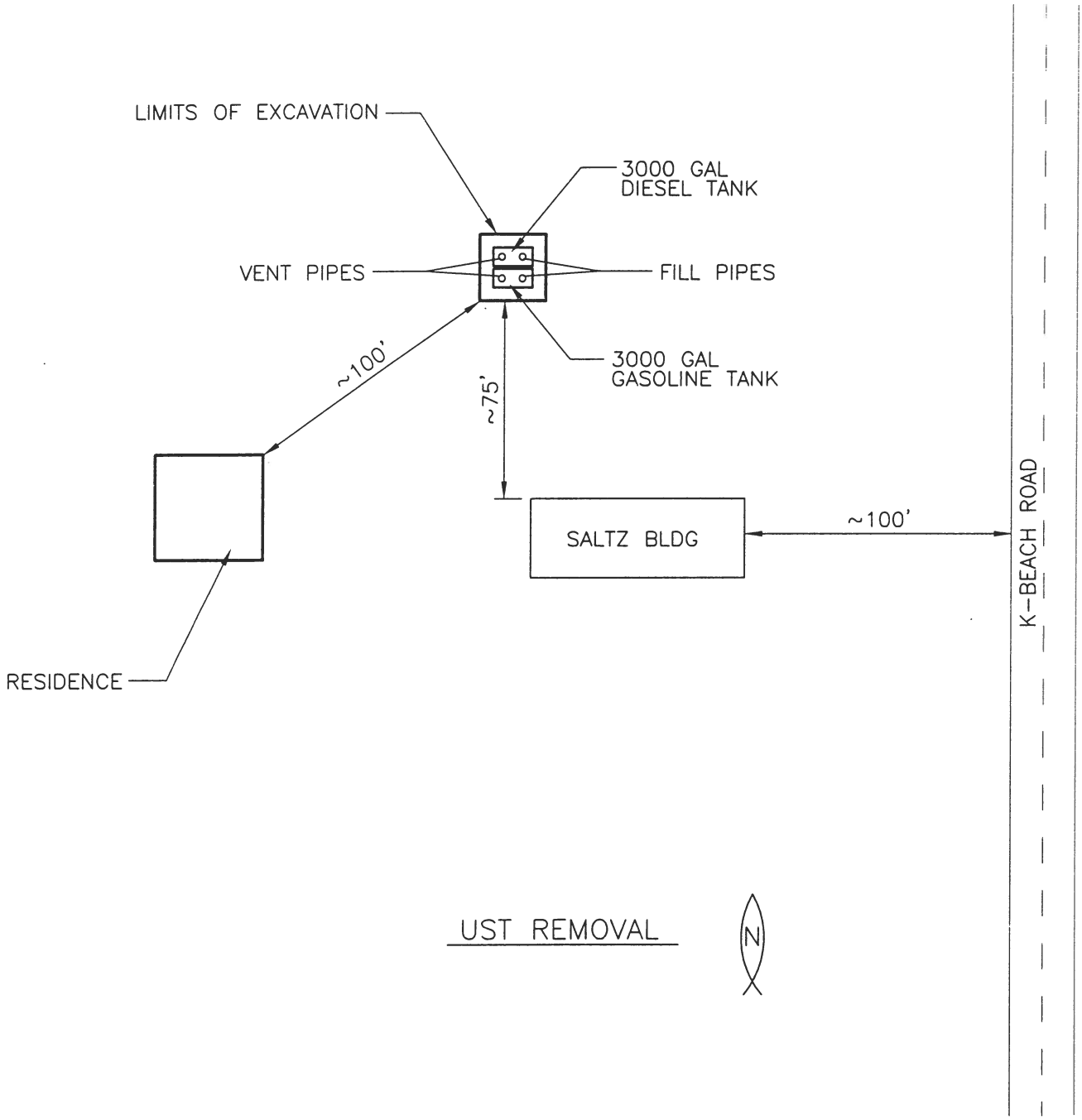
Sincerely,



Paula Crowley
Environmental Scientist

Attachment

c\Paul Horwath, ADEC



UST REMOVAL



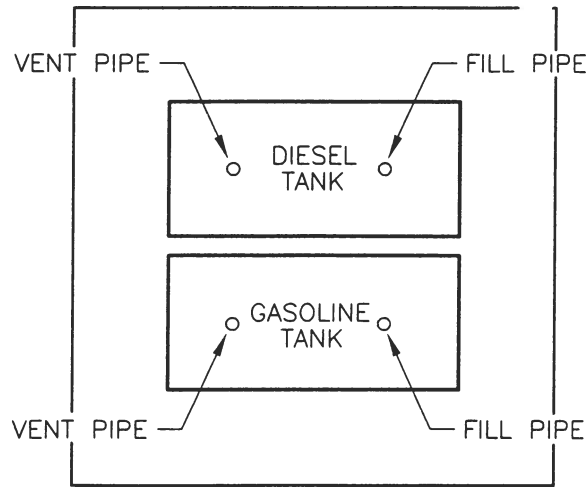
Northern Test Lab

35186 SPUR HWY. (907) 262-4624
 SOLDOTNA, ALASKA 99669 FAX 262-5777

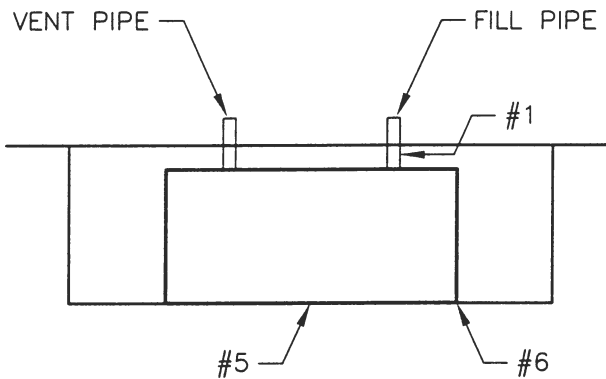
DATE: 10/1/98
 DRAWN: RS
 CHECKED: HP
 SCALE: 60
 PROJECT NO.: 98170

SALTZ GENERAL CONTRACTORS
 UST REMOVAL
 9/10/98

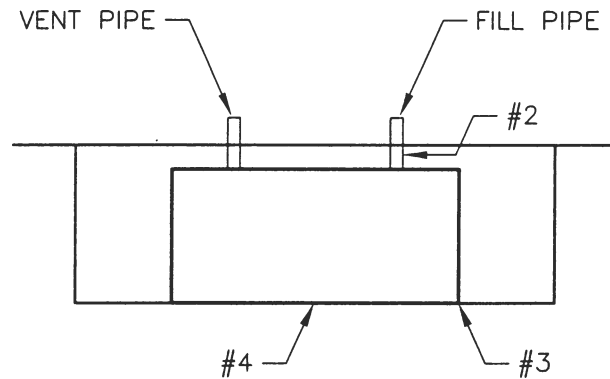
FIGURE
 1



PLAN



GASOLINE TANK PROFILE



DIESEL TANK PROFILE

- SAMPLE #1: GASOLINE FILL PIPE, 1' BELOW SURFACE
- SAMPLE #2: DIESEL FILL PIPE, 0.5' BELOW SURFACE
- SAMPLE #3: BOTTOM OF DIESEL TANK, WEST END, 12' BELOW SURFACE
- SAMPLE #4: BOTTOM OF DIESEL TANK, CENTER, 12' BELOW SURFACE
- SAMPLE #5: BOTTOM OF GASOLINE TANK, WEST END, 12' BELOW SURFACE
- SAMPLE #6: BOTTOM OF GASOLINE TANK, CENTER, 12' BELOW SURFACE

Northern Test Lab

35186 SPUR HWY.
SOLDOTNA, ALASKA 99669

(907) 262-4624
FAX 262-5777

DATE: 02/23/99
DRAWN: HP
CHECKED: PC
SCALE: NONE
PROJECT NO.: 98170

SALTZ GENERAL CONTRACTORS
UST REMOVAL
AMENDED 02/23/99

FIGURE
2



CT&E Environmental Services Inc.

Laboratory Division

Laboratory Analysis Report

September 15, 1998

Paula Crowley
Northern Test Lab
35186 Kenai Spur Hwy.
Soldotna, AK 99669

Client Name	Northern Test Lab
Project ID	Saltz General Contract. 98170 [985156]
Printed	September 15, 1998

Enclosed are the analytical results associated with the above project.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by CT&E. A copy of our Quality Control Manual that outlines this program is available at your request.

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth in our Quality Assurance Program Plan.

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

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

- U - Indicates the compound was analyzed for but not detected.
- J - Indicates an estimated value that falls below PQL, but is greater than the MDL.
- B - Indicates the analyte is found in the blank associated with the sample.
- * - The analyte has exceeded allowable limits.
- GT - Greater Than
- D - Secondary Dilution
- LT - Less Than
- ! - Surrogate out of range



CT&E Ref.# 985156001
Client Name Northern Test Lab
Project Name/# Saltz General Contract. 98170
Client Sample ID Gas Tank Fill Pipe
Matrix Soil
Ordered By
PWSID

Client PO#
Printed Date/Time 09/15/98 16:17
Collected Date/Time 09/10/98 10:30
Received Date/Time 09/10/98 15:40
Technical Director: Stephen C. Ede

Released By [Signature]

Sample Remarks:

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, GRO/8021 Combo, Gasoline Range Organics, Benzene, Toluene, Ethylbenzene, P & M -Xylene, o-Xylene, and Surrogates.



CT&E Ref.# 985156002
Client Name Northern Test Lab
Project Name/# Saltz General Contract. 98170
Client Sample ID Diesel Tank Fill Pipe
Matrix Soil
Ordered By
PWSID

Client PO#
Printed Date/Time 09/15/98 16:17
Collected Date/Time 09/10/98 10:35
Received Date/Time 09/10/98 15:40
Technical Director: Stephen C. Ede

Released By Heather Hall

Sample Remarks:

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, GRO/8021 Combo, Gasoline Range Organics, Benzene, Toluene, Ethylbenzene, P & M -Xylene, o-Xylene, and Surrogates.



CT&E Ref.# 985156003
Client Name Northern Test Lab
Project Name/# Saltz General Contract. 98170
Client Sample ID Diesel Tank Bottom-W. End
Matrix Soil
Ordered By
PWSID

Client PO#
Printed Date/Time 09/15/98 16:17
Collected Date/Time 09/10/98 11:40
Received Date/Time 09/10/98 15:40
Technical Director: Stephen C. Ede

Released By Heather Hall

Sample Remarks:

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, GRO/8021 Combo, Gasoline Range Organics, Benzene, Toluene, Ethylbenzene, P & M -Xylene, o-Xylene, and Surrogates.



CT&E Ref.# 985156004
 Client Name Northern Test Lab
 Project Name/# Saltz General Contract. 98170
 Client Sample ID Diesel Tank Bottom-Center
 Matrix Soil
 Ordered By
 PWSID

Client PO#
 Printed Date/Time 09/15/98 16:17
 Collected Date/Time 09/10/98 11:40
 Received Date/Time 09/10/98 15:40
 Technical Director: Stephen C. Ede

Released By *Deborah Hall*

Sample Remarks:

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	99.1		%	SM18 2540G			09/14/98	SKW
GRO/8021 Combo								
Gasoline Range Organics	0.764 U	0.764	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
Benzene	0.0191 U	0.0191	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
Toluene	0.0191 U	0.0191	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
Ethylbenzene	0.0191 U	0.0191	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
P & M -Xylene	0.0328	0.0191	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
o-Xylene	0.0191 U	0.0191	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
Surrogates								
4-Bromofluorobenzene <Surr>	67.2		%	AK101/8021B	(50-150)	09/10/98	09/11/98	
1,4-Difluorobenzene <Surr>	98.8		%	AK101/8021B	(50-150)	09/10/98	09/11/98	



CT&E Ref.# 985156005
Client Name Northern Test Lab
Project Name/# Saltz General Contract. 98170
Client Sample ID Gas Tank Bottom-Center
Matrix Soil
Ordered By
PWSID

Client PO#
Printed Date/Time 09/15/98 16:17
Collected Date/Time 09/10/98 11:40
Received Date/Time 09/10/98 15:40
Technical Director: Stephen C. Ede

Released By

Signature: Heather Hdale

Sample Remarks:

Table with 10 columns: Parameter, Results, PQL, Units, Method, Allowable Limits, Prep Date, Analysis Date, Init. Rows include Total Solids, GRO/8021 Combo, Gasoline Range Organics (Benzene, Toluene, Ethylbenzene, P & M -Xylene, o-Xylene), and Surrogates (4-Bromofluorobenzene, 1,4-Difluorobenzene).



CT&E Ref.# 985156006
 Client Name Northern Test Lab
 Project Name/# Saltz General Contract. 98170
 Client Sample ID Gas Tank Bottom-W. End
 Matrix Soil
 Ordered By
 PWSID

Client PO#
 Printed Date/Time 09/15/98 16:17
 Collected Date/Time 09/10/98 11:40
 Received Date/Time 09/10/98 15:40
 Technical Director: Stephen C. Ede

Released By

Heather Isaac

Sample Remarks:

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Total Solids	92.8		%	SM18 2540G			09/14/98	SKW
GRO/8021 Combo								
Gasoline Range Organics	0.561 U	0.561	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
Benzene	0.0140 U	0.0140	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
Toluene	0.0140 U	0.0140	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
Ethylbenzene	0.0140 U	0.0140	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
P & M -Xylene	0.0140 U	0.0140	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
o-Xylene	0.0140 U	0.0140	mg/Kg	AK101/8021B		09/10/98	09/11/98	WAA
Surrogates								
4-Bromofluorobenzene <Surr>	64.5		%	AK101/8021B	(50-150)	09/10/98	09/11/98	
1,4-Difluorobenzene <Surr>	96.8		%	AK101/8021B	(50-150)	09/10/98	09/11/98	

Northern Test Lab

Analytical, Environmental, Geotechnical, Construction Materials Testing
35186 Spur Highway Soldotna, Alaska (907)262-4624 262-5777 (fax)

CLIENT INFORMATION

PWSID

Name Sally General Contracting
Address _____

Phone _____ Fax _____

Addn'l Chrgs _____

Bill/Paid _____ Project # 98170

COMMENTS _____

CHLORINATED - Y N

985156

V OF CUSTODY

Lab Number 981791

WSTI
RUSH

*** FOR LAB USE ONLY ***

LABORATORY CTE

INVOICE NTL

Bill NTL

Copy NTL

REPORT NTL

Original NTL

Copy NTL

SHIPPING VIA/AIRBILL # SEA 707915

Sampled By: Paula Crowley Sample Condition: Good Rejected Comments

Sample Site Saltz General Contracting

SAMPLE NO.	LOCATION DESCRIPTION	DATE	TIME	# CONTAIN	PRESERVE	REQUESTED ANALYSIS					
						Nitrate	Nitrite	VOC	Pb/Cu	Collett	OTHER
1	Gas Tank F.I. Pipe	9-10-98	1030	1	Meth						GR / GRO / BTEX
2	Diesel Tank F.I. Pipe		1035	1							
3	Diesel Tank Bottom - W. End		1140	1							
4	Diesel Tank Bottom - Center		1140	1							
5	Gas Tank Bottom - Center		1140	1							
6	Gas Tank Bottom - W. End		1140	1							

Relinquished by: P. Crowley Date/Time: 9/10/98 1230 Accepted by: Paula Crowley Date/Time: 9/10/98 1540

Relinquished by: _____ Date/Time: _____ Accepted by: _____ Date/Time: _____

APPENDIX B
ADEC Storage Tank Program
Site Assessment and Release Investigation Summary Form

This document summarizes information from site assessments and release investigation reports that are required by Alaska's Underground Storage Tanks Regulations (18 AAC 78). It is intended to ensure minimum requirements are met when submitting full reports to ADEC. It cannot be substituted for comprehensive site assessment or release investigation reports. Site assessments (as defined in AS 46.03.450) are conducted to check for the presence or absence of petroleum contamination. If contamination of soil or groundwater is identified then a release investigation is required. Site assessments and release investigations must be conducted by a qualified impartial third party (as defined in 18 AAC 78) and in accordance with chapter two of the Underground Storage Tanks Procedures Manual (UST Manual).

How to fill out this form

Type or print in ink the requested information and sign in ink the "signature" blocks on page 7. Please attach this form to the comprehensive site assessment or release investigation report (or include it in the report introduction) and submit it to the nearest ADEC field operations office (Juneau, Anchorage, Fairbanks or Soldotna).

1.

General Information

Purpose of Site assessment/ Release investigation:

Closure
(Closure, Change-in-service, Suspected or confirmed release, Compliance check, Other)

Owner of site:

Edwin Salts
Saltz General Contractors 262-4866
Name of company/legal entity that owns the site Phone number

PO Box 747 Soldotna AK 99669
Mailing address City, State, Zip code

Operator of site:

Edwin Saltz
Saltz General Contractors 262-4866
Name of company/legal entity that operates the site Phone number

PO Box 747 Soldotna AK 99669
Mailing address of operator City, State, Zip code

Location of site:

Saltz General Contractors 262-4866
Name of site (e.g. John Doe's Service Station) Phone number

Mi. 18.3 Kalifornsky Beach Rd Soldotna AK 99669
Physical address of site (be as specific as possible) City, State, Zip code

MD Buckman TRB L9 Sec 26, T5N, R11W S.M.
Legal description of site Section/township/range
General Contractor 0422
Type of business at site Facility ID # / Tank ID number(s)

Financial Assistance Applications filed (this site only)

Site assessment/tightness test Tank cleanup Tank upgrade Tank closure

Reports on file with ADEC:

Tightness test Closure notice Other _____

Describe the status, size, and contents of the tanks that have been at the site:

Tank ID Number:	Tank No. <u>1</u>	Tank No. <u>2</u>	Tank No. <u> </u>	Tank No. <u> </u>	Tank No. <u> </u>
Tank status (check one)					
Currently in use	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Temporarily closure	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Closed/left in place	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Closed/removed	<u> x </u>	<u> x </u>	<u> </u>	<u> </u>	<u> </u>
Total capacity (gallons)	<u> 3000 </u>	<u> 3000 </u>	<u> </u>	<u> </u>	<u> </u>
Contents (diesel, etc)	<u> Diesel </u>	<u> Gasoline </u>	<u> </u>	<u> </u>	<u> </u>

3. Firm conducting site assessment and release investigation

Northern Test Lab
Name of firm

262-4624
Phone number

35186 Spur Hwy
Mailing address

Soldotna AK 99669
City, State, Zip code

Paula Crowley
Site assessment supervisor(s)

Paula Crowley
Person(s) collecting samples

4. Site history

Based on the best available knowledge, please check the appropriate box below:

Y N

- x Was soil contamination observed or identified?
- x Was groundwater contamination observed or identified?
- x Did inventory control or prior tank repairs indicate a possible release?
- x Has a tank tightness test been performed on any USTs on the site?
- x Have any of the facility's USTs or piping ever failed a tightness test?
- x Have there been any previous site assessments performed at this site?
- x Do previous site assessments indicate any contamination has occurred?

If the answer to any of these questions is yes, please describe (or attach copy of report discussion). Give dates and circumstances, use continuation sheet if necessary:

Owner conducted tank tightness tests and has those results

Date(s) of field screening: 7/10/98 Temperature(s) during screening: 40s
 Estimated wind speeds: 0-5 mph Weather (clear, raining, etc): cloudy
 Type of field detection instrument used: DVM
 Brand: Thermo Environmental Model: 580B Date calibrated: 9/21/98
 Number of tests: 9 Range of results: 0 ppm
 If an instrument wasn't used, what field detection method was used? _____
 Number of tests: _____ Range of results: _____

6. Collection of soil samples

For site assessments done for USTs remaining in place

Check the appropriate boxes below (if not applicable, leave blank):

- | | | |
|--------------------------|--------------------------|--|
| Y | N | |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples taken from borings (or test pits) within 5 feet of the UST? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples collected from within 2 feet below the bottom of the UST? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were dispensers connected to the UST system? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples taken from borings (or test pits) adjacent to dispensers? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples taken from borings (or test pits) adjacent to piping? |

How many borings/pits were made? _____ How many samples were analyzed? _____

For site assessments done at excavation and removal of USTs:

Check the appropriate boxes below (if not applicable, leave blank):

- | | | |
|-------------------------------------|-------------------------------------|---|
| Y | N | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Were any areas of obvious contamination identified or observed? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples taken from areas of obvious contamination? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were at least two discrete analytical samples taken from excavated pit area? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Was at least one sample taken from below each dispensing island's piping? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Was at least one sample taken from the piping trench? <u>No pipe trench</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were the samples referenced above collected taken from native soil within two feet below the bottom of the tank pit or dispenser/piping trench? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | If multiple tanks were removed, were at least three samples collected? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were additional samples collected for each 250 square feet of excavated pit over 250 square feet? |

Number of distinct points sampled: 6 Estimated excavation's surface area: 400 ft²

For all site assessments

Check the appropriate boxes below:

- | | | |
|-------------------------------------|-------------------------------------|---|
| Y | N | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Were field duplicate samples collected and analyzed? <u>(trip blank only)</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were all samples kept at the appropriate temperature until analysis? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were all samples extracted & analyzed within recommended holding times? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Did chain-of-custody/transfer logs accompany samples to laboratory? |

7. Laboratory analysis of soil samples

Identify the possible contaminants (gasoline, BTEX, diesel, etc.): Gasoline Diesel

Please list the analytical methods used to detect these contaminants in the soil samples, the number of samples analyzed by each method, and the range of results for each method:

Possible product	Analytical method	Number of samples	Range of results	Location(s) of sample point(s) w/ highest level of contamination
<u>Gasoline</u>	<u>AK 10/90210</u>	<u>6</u>	<u>ND - 0.790 mg/kg</u>	<u>Diesel Tank Dispenser Pipe</u>
<u>BTEX</u>	<u>"</u>	<u>"</u>	<u>ND - 0.036 mg/kg</u>	<u>Gasoline Tank Dispenser P. pi</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

8. Groundwater investigation

Check the appropriate boxes below:

- Y N
- Was groundwater encountered during the excavation or drilling work?
 - Were borings drilled/pits dug at least five feet below the USTs bottom?
 - Is groundwater or seasonal high water table known or suspected to exist within five feet of the bottom of the USTs?
 - Were samples taken from borings drilled/test pits dug to this water level?
 - Were all these samples analyzed within recommended holding times?

How many groundwater/saturated-soil samples were collected & analyzed? 0
 How many of these samples were taken from the top 6" of water table? _____
 How many field QC samples were analyzed? _____

Trip blanks Duplicates Decon blanks

9. Laboratory analysis of water samples

(see Table 1 of UST Procedures Manual or Table G of 18 AAC 78.800(b))

Identify the possible contaminants at the site: _____

Identify the analytical methods used to detect these contaminants in the water samples, the number of samples analyzed by each method, and the range of results for each method:

Analytical method	Number of samples	Range of results (ppm)	Location(s) of sample point with highest level of contamination
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

10. Disposal of material

Appropriate boxes below (if not applicable, leave blank):

Y N

Were tanks cleaned in accordance with API 2015 (Cleaning Petroleum Storage Tanks)?

Were the tanks and piping removed and disposed in accordance with API 1604 (Removal and disposal of used petroleum Storage tanks)?

Where were the tanks and piping disposed? _____

Where was the tank sludge and rinsewater disposed? _____

11. Stockpiles

Check the appropriate boxes below:

Y N

Is any soil stockpiled at the site?

Are soils stockpiled in accordance with 18 AAC 78.311?

12. Release investigation

Check the appropriate box below:

Y N

Was any petroleum contamination identified during site assessment?

(Answer "yes" if any evidence a release occurred; if no, proceed to item 13)

If contamination was found, what was matrix score for site? _____
(Attach completed matrix score sheet to this form)

When did release occur? _____ When was release confirmed? _____
(Date & time) (Date & time)

When was ADEC notified? _____ List ADEC staff notified: _____
(Date & time) (Name)

What is status of UST that prompted the investigation? _____
In use Out-of-use, product still in system Out-of-use; system empty Permanently closed

Briefly describe (or attach copy of report discussion) the steps taken to prevent further migration of the release and steps taken to monitor and mitigate fire and safety hazards: _____

Sketch the site in the space below. Alternatively, attach a site map to the back of the form. The sketch (or accompanying narrative) should include the following information:

- locations of all USTs, piping, and dispensers
- distances from tanks to nearby structures
- property line locations
- location and dimensions of excavation(s)
- type of backfill used to surround system
- locations of any known historical releases
- locations of any observed contamination
- location of any boreholes and test pits
- soil types
 - field screening locations and readings
 - sampling locations, depths, & sample ID numbers
 - water wells and monitoring wells (if present)
- depth to groundwater/seasonal high groundwater
- locations of any stockpiled soils
 - north arrow
- bar scale (specify feet or meters)

For release investigations, in addition to the above information, show the groundwater gradient; surface drainages (including potential hydraulic connections with groundwater) and utility trenches.

See attached Figures

14. Quality assurance

Check the appropriate boxes below:

- Y N
- Were there deviations from Chapter 2 of the UST Procedures Manual? (Note that any deviations must be documented in a section of the comprehensive report)
- Is a field quality control summary included in the reports?
- Is a laboratory QC summary included in the report for all samples used to verify cleanup levels have been met?

15. Certification

The following certification is to be signed by the assessment firm's principal investigator or Quality Assurance Officer:

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of Chapter 2 of the UST Procedures Manual.

Paula Crowley (Print name) Environmental Scientist (Title)

Paula Crowley (Signature) 4/8/99 (Date)

The following certification is to be signed by the UST owner/operator (or designated representative):

I certify that I have personally examined and am familiar with the information in this and all attached documents and based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

MARIANNE SALTZ (Print name) owner (Specify if owner, operator, representative)

Marianne Saltz (Signature) 4-8-99 (Date)

M. 18.3 K-Beach Rd P.O. Box 747 (Street Address) Soldotna, ALASKA 99669 (City, State, Zip)

16. Attachments

Please check the boxes showing any comprehensive reports attached to this summary:

- Site Assessment Report (include if no release investigation is needed)
- Release Investigation Report (include if release investigation is needed)