Environmental
Consulting Services

ĀTEC®

Post-Removal Report
Underground Storage Tank Closure
1,000 Gallon No. 2 Fuel Oil
UST No. 0038
Building 2519
Fort Devens, Massachusetts

ATEC File: 37.07.91.07451
Contract No. DAK31-91-D-0015

Prepared for:

United States Army
Directorate of Contracting
Building 227
Fort Devens, Massachusetts

Attn: Mr. Robert J. Kruzewski,
Contracting Officer

February 21, 1992

ATEC Environmental Consultants
Division of ATEC Associates, Inc.
62 Accord Park Drive
Norwell, Massachusetts 02061
[617] 878-6200, FAX # [617] 871-6781

Solid & Hazardous Waste Site Assessments
Remedial Design & Construction
Underground Tank Management
Asbestos Surveys & Analysis
Hydrogeologic Investigations & Monitoring
Analytical Testing / Chemistry
Industrial Hygiene / Hazard Communication
Environmental Audits & Permitting
Exploratory Drilling & Monitoring Wells

February 21, 1992

Mr. Robert J. Kruzewski, Contracting Officer
United States Army
Directorate of Contracting
Building 227
Fort Devens, Massachusetts 01433-5340

RE: Post-Removal Report
Underground Storage Tank Closure
1,000 Gallon No. 2 Fuel Oil - UST No. 0038
Building 2519
Fort Devens, Massachusetts
ATEC File: 37.07.91.07451

Mr. Kruzewski:

Attached is a report by ATEC Associates, Inc. (ATEC), detailing the results of the closure of one (1) 1,000 gallon, single wall, steel Underground Storage Tank (UST) referenced as UST No. 0038, located at property known as Building 2519, Fort Devens, Massachusetts. The purpose of the closure was to excavate the UST and to evaluate the potential for the presence of oil and hazardous material at the site.

ATEC appreciates the opportunity to be of service in this matter. If you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

ATEC Associates, Inc.

Mark E. Baldi
Environmental Scientist

James B. O'Brien
Group Manager

Marta J. Nover
Environmental Consulting
Division Manager

EXECUTIVE SUMMARY

On January 21, 1992, ATEC closed one (1) 1,000 gallon, single wall, steel Underground Storage Tank (UST) located at property known as Building 2519, Fort Devens, Massachusetts. The purpose of the closure was to excavate the UST and to evaluate the potential for the presence of oil and hazardous material at the site.

ATEC's conclusions are as follows:

1. Upon excavation and removal, the tank was observed to be in good condition with no holes or perforations. Some moderate rusting of the tank was noted, and the fill pipe was observed to be broken at the connection with the tank.

2. Ground water was not encountered within the excavation.

3. All excavated soils required to free the tank were visibly contaminated. Soil within the excavation were observed to be stained and grossly contaminated. A strong petroleum odor was evident.

4. Ten (10) soil samples were obtained from the excavation for field screening and field analysis utilizing a PID and NDIR Analysis respectively. PID readings ranged from 3.4 ppm to 146 ppm. NDIR results ranged from 852.2 ppm to 15,687.6 ppm TPH.

5. Two (2) soil samples were obtained from the excavation for laboratory analysis for TPH utilizing USEPA Extraction Method 9071 and Analysis Method (draft) 9073. Analytical results for LSS-1 obtained from the south wall of the excavation revealed 25,000 ppm TPH. Analytical results for LSS-2 obtained from the bottom of the excavation revealed 23,200 ppm TPH.

6. One (1) composite, soil sample (LSS-3) was obtained from stockpiled soils for laboratory analysis. Analytical results for LSS-3 revealed 4,750 ppm TPH.

ATEC's recommendations are as follows:

1. Conduct remedial excavation until background levels of <100 ppm TPH by laboratory analysis is attained. Field screening of soil should be conducted during excavation utilizing a Photoionizing Detector until background levels of <1 ppm are attained prior to obtaining samples for laboratory analysis.

2. Advance soil borings and install ground water monitoring wells to determine the vertical and horizontal extent of contamination. Continuous split spoon sampling and analysis will be conducted utilizing field analysis techniques, i.e. Photoionization Detector and Non-Dispersive Infrared Analysis, and laboratory analysis to document soil contamination levels as specified in the Hazardous Waste Containment Plan.

3. Stockpiled soils should be laboratory analyzed for Total Petroleum Hydrocarbons, Volatile Organic Compounds, PCBs, 13 TCLP Metals, flashpoint, corrosivity, sulfide reactivity, and cyanide reactivity for disposal classification.

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APPENDICES

POST-REMOVAL REPORT

United States Army Reserve Center
Building 2519
Fort Devens, Massachusetts
ATEC Project No. 37.07.91.07451

1.0 INTRODUCTION

This Post-Removal Report details the results of the closure of one (1) 1,000 gallon, single wall, steel, Underground Storage Tank (UST) referenced as UST No. 0038, located at property known as Building 2519, Fort Devens, Massachusetts. The purpose of the closure was to excavate the UST, evaluate the potential for the presence of oil and hazardous material at the site. The closure of this UST was conducted on January 21, 1992.

The basic Project Work Scope included:

1. Procurement/administration of all federal, state and local permits, manifests, regulations, etc., associated with UST system closure.

2. Excavating, venting, cleaning, transporting, and disposing of one (1) 1,000 gallon UST by appropriately licensed contractors/facilities.

3. Disposal of UST slops at a licensed facility.

4. Field screening and analysis of soil in the excavations by Photoionizing Detector (PID) and field analyzed with a portable Non-Dispersive Infrared (NDIR) Analyzer, to identify evidence release of oil and hazardous materials from the UST, if any.

5. Laboratory Analysis of soil sampled from the UST excavation by a US EPA certified laboratory for Total Petroleum Hydrocarbons (USEPA Extraction Method 9071 and Analysis Method (draft) 9073).

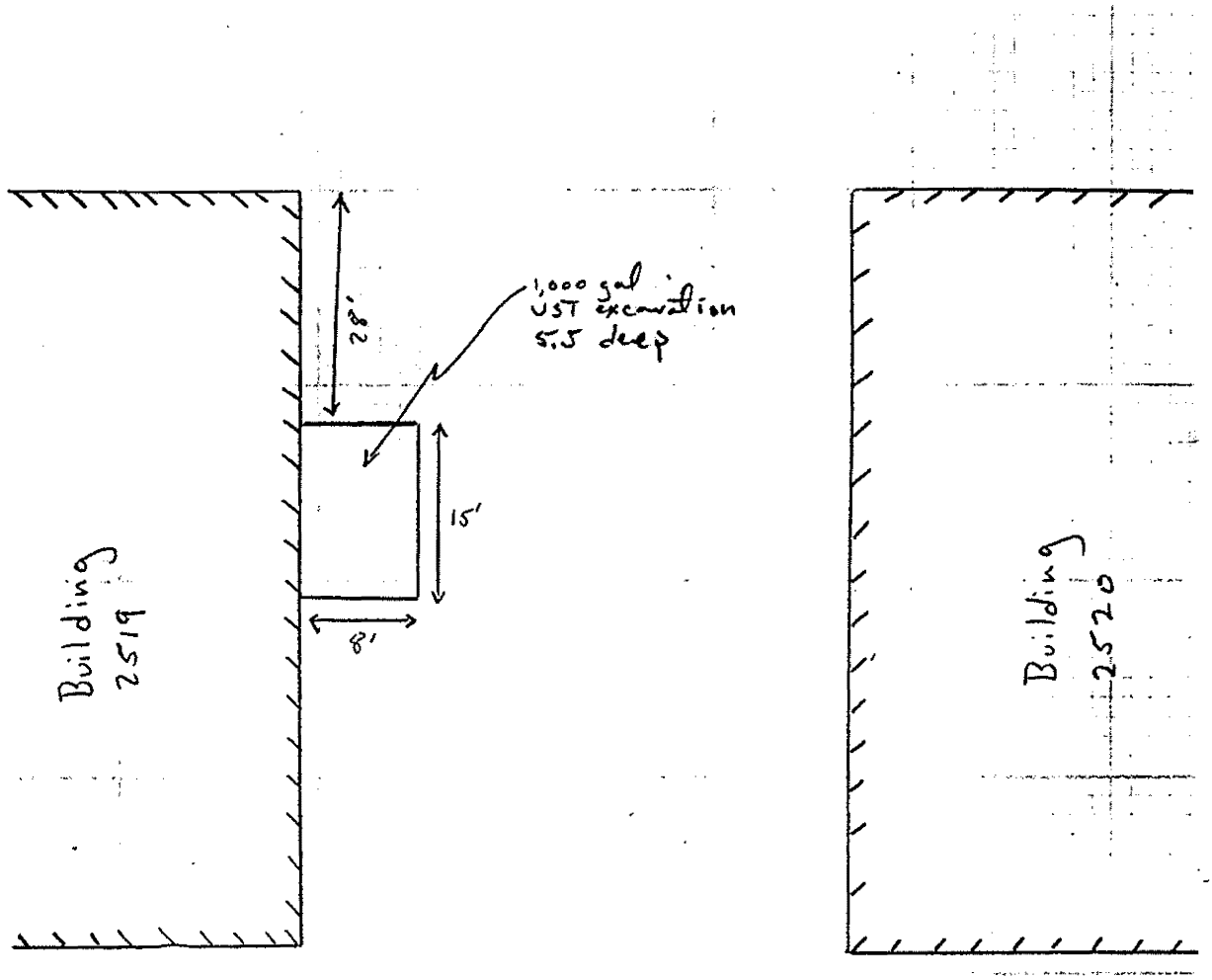
6. Preparation of a Post-Removal Report, to include assimilation of information gathered; major findings; and conclusions.

2.0 SUBSURFACE STORAGE TANK EXCAVATION AND REMOVAL

On January 21, 1992, one (1), 1,000 gallon, subsurface, No. 2 fuel oil, storage tank was excavated and removed from the site. The UST was located adjacent to the north side of Building 2519. Site topography is level. There is a slight upgradient slope approximately 100 feet to the southeast of the site.

Soils in the excavation consisted primarily of medium brown, fine sand with some medium to coarse gravel, cobbles, and boulders. The tank was covered by approximately 1.5 feet of soil. The bottom of the excavation was approximately 5.5 feet below grade. Ground water was not encountered within the excavation. All excavated soils required to free the tank were visibly contaminated. Soil removed from above the tank were visibly stained. Within the excavation, soil was observed to be grossly contaminated. A strong petroleum odor was evident.

Associated piping was drained, and tank connections were removed. UST No. 0038 was estimated to contain 48 gallons of No. 2 fuel oil and sludges. Approximately 13 gallons of fuel oil was removed on January 7, 1992, and transported to a licensed T.S.D.F. (Beede Waste Oil Corporation). Approximately 35 gallons of fuel oil and sludges were removed and drummed on January 21, 1992 for transportation at a later date. Tank openings were capped, and the tank was removed from the excavation. Upon excavation and removal, the tank was observed to be in good condition with no holes or perforations. Some surficial to moderate rusting of the tank was noted, and the fill pipe was observed to be broken at the connection with the tank. Following venting of the tank, an access way was cut in the end of the tank to allow entry for cleaning. It was then entered and vacuumed/wiped clean of any residual slops.



UST LOCATION PLAN

1,000 gallon UST relative to:
Building 2519
Fort Devens, Massachusetts

PROJECT: 37.07.91.07451

NOT TO SCALE

FIGURE: 1

ATEC

The scrap tank was removed from the site on January 21, 1992 and transported to the Contractor's yard, Lake George Street, Fort Devens for temporary storage. The tank was disposed at Tombarello & Sons, a licensed Massachusetts tank yard, on January 28, 1992. A copy of the disposal receipt is included in Appendix G.

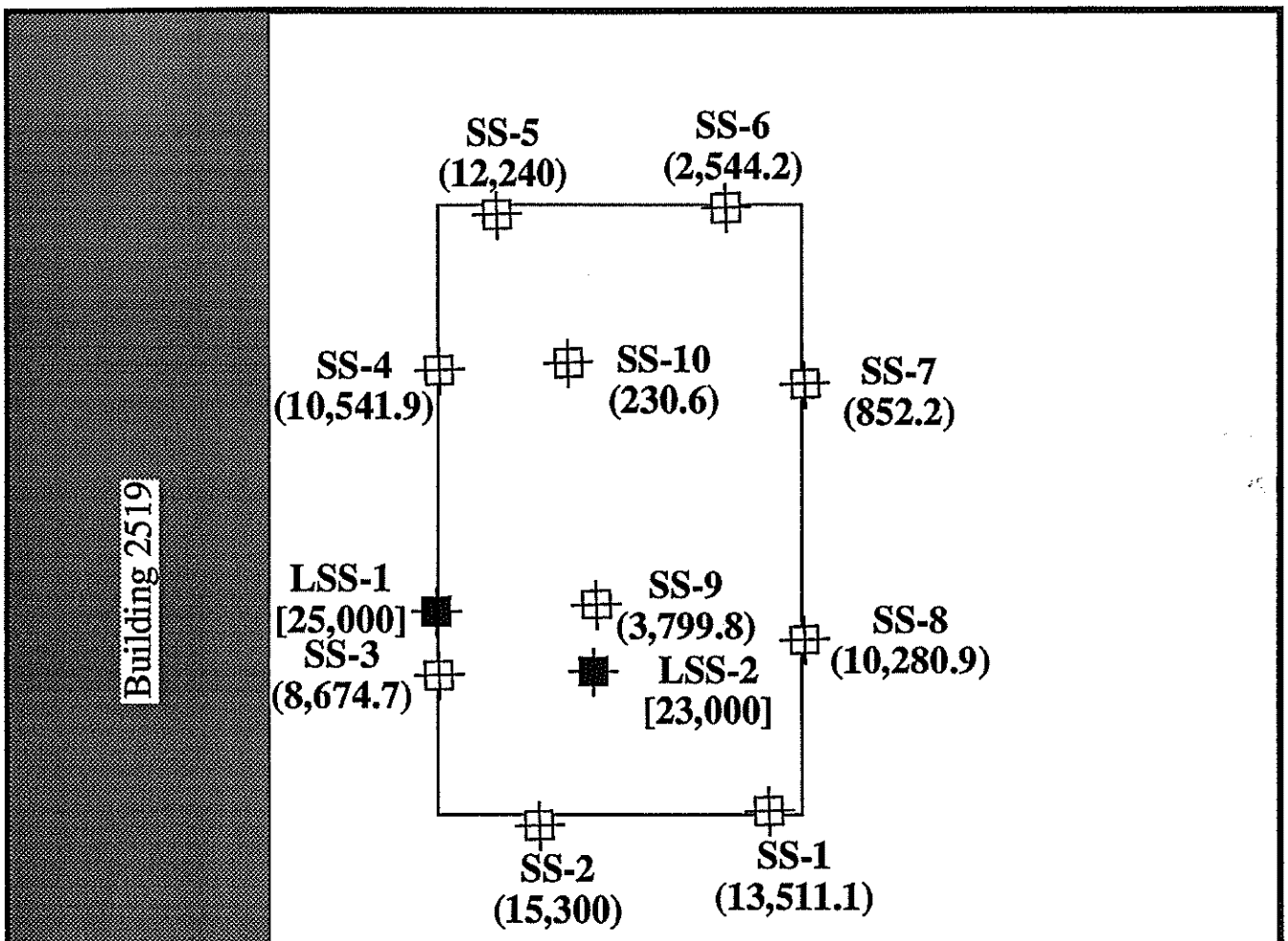
3.0 SAMPLING AND ANALYSIS PLAN

Ten (10) soil samples were obtained from the excavation for field screening with a Photoionizing Detector (PID) and field analyzed with a Non-Dispersive Infrared (NDIR) Analyzer. The PID field screening for Volatile Organic Compound (VOC) vapors was conducted with an HNu photoionizer utilizing the jar headspace screening protocol outlined in the Hazardous Materials Containment Plan. The NDIR field screening for Total Petroleum Hydrocarbons (TPH) was conducted with a Horiba OCMA 220, utilizing the procedures outlined in the Hazardous Materials Containment Plan.

Eight (8) of the samples (SS-1 to SS-8) were obtained from the excavation walls at a depth of approximately 2.5 - 3.5 feet below grade. Two (2) of the samples (SS-9 and SS-10) were obtained from the bottom of the excavation at a depth of approximately 5.5 feet below grade. Two (2) composite soil sample (Stock-1 and Stock-2) were obtained from stockpiled soils for PID and NDIR field screening. Sampling locations for the excavation are depicted on the Sampling Schematic attached as Figure 2.

Two (2) soil samples (LSS-1 and LSS-2) were obtained from the excavation for laboratory analysis. Soil Sample LSS-1 was obtained from the south wall of the excavation. Soil sample LSS-2 was obtained from the bottom of the excavation. One (1) composite, soil sample (LSS-3) was obtained from stockpiled soils required to free the tank. These samples were analyzed for TPH utilizing USEPA Extraction Method 9071 and Analysis Method (draft) 9073. Sampling locations are depicted on the Sampling Schematic attached as Figure 2.

The appropriate chain of custodies are included in Appendix E.



LEGEND:

Field Screened Soil Sample

Lab Analyzed Soil Sample

( ) NDIR Results in ppm

[ ] Lab Analysis Results in ppm

Results in bold denote levels in excess of MA DEP Remedial Goal Level (100 ppm)

SAMPLING SCHEMATIC

1,000 gallon UST excavation at:
Building 2519
Fort Devens, Massachusetts

PROJECT: 37.07.91.07451

NOT TO SCALE

FIGURE: 2

ATEC

4.0 ANALYTICAL RESULTS

The results from analysis with the Photoionization Detector (PID) and the Non-Dispersive Infrared (NDIR) Analyzer of the ten (10) soil samples obtained from the excavation, and the two (2) composite samples obtained from stockpiled soil are as follows:

TABLE 1 - PID AND NDIR RESULTS

Sample No.	PID (ppm)	NDIR(ppm)
SS-1	132	13,511.1
SS-2	66.0	15,300.0
SS-3	146	8,674.7
SS-4	60.0	10,541.9
SS-5	31.0	12,240.0
SS-6	3.4	2,544.2
SS-7	61.0	852.2
SS-8	76.0	15,687.6
SS-9	91.0	11,322.0
SS-10	52.0	9,351.4
Stock-1	64.0	5,370.5
Stock-2	75.0	5,105.9

N.D. = None Detected

Laboratory analytical results of the two (2) soil samples obtained from the excavation revealed 25,000 ppm TPH for LSS-1, and 23,200 ppm TPH for LSS-2. Laboratory analysis of the one (1) soil sample obtained from the stockpiled soils revealed 4,750 ppm TPH for LSS-3. See Appendix D.

5.0 CONCLUSIONS AND RECOMMENDATIONS

ATEC's conclusions are as follows:

1. Upon excavation and removal, the tank was observed to be in fair condition with no holes or perforations. Some moderate rusting was noted, and the fill pipe was observed to be broken at the connection with the tank.

2. Ground water was not encountered within the excavation.

3. All excavated soils required to free the tank were visibly contaminated. Soil within the excavation were observed to be stained and grossly contaminated. A strong petroleum odor was evident.

4. Ten (10) soil samples were obtained from the excavation for field screening and field analysis utilizing a PID and NDIR Analysis respectively. PID readings ranged from 3.4 ppm to 146 ppm. NDIR results ranged from 852.2 ppm to 15,687.6 ppm TPH.

5. Two (2) soil samples were obtained from the excavation for laboratory analysis for TPH utilizing USEPA Extraction Method 9071 and Analysis Method (draft) 9073. Analytical results for LSS-1 obtained from the south wall of the excavation revealed 25,000 ppm TPH. Analytical results for LSS-2 obtained from the bottom of the excavation revealed 23,2000 ppm TPH.

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ATEC's recommendations are as follows:

1. Conduct remedial excavation until background levels of <100 ppm TPH by laboratory analysis is attained. Field screening of soil should be conducted during excavation utilizing a Photoionizing Detector until background levels of <1 ppm are attained prior to obtaining samples for laboratory analysis.

2. Advance soil borings and install ground water monitoring wells to determine the vertical and horizontal extent of contamination. Continuous split spoon sampling and analysis will be conducted utilizing field analysis techniques, i.e. Photo-ionization Detector and Non-Dispersive Infrared Analysis, and laboratory analysis to document soil contamination levels as specified in the Hazardous Waste Containment Plan.

3. Stockpiled soils should be laboratory analyzed for Total Petroleum Hydrocarbons, Volatile Organic Compounds, PCBs, 13 TCLP Metals, flashpoint, corrosivity, sulfide reactivity, and cyanide reactivity for disposal classification.

6.0 CERTIFICATIONS & QUALIFICATIONS

This report is addressed to Mr. Robert J. Kruzewski, Contracting Officer of Directorate of Contracting, United States Army, Fort Devens with respect to UST No. 0038, located at property known as Building 2519, Fort Devens, Massachusetts (the site).

ATEC certifies that to the best of their professional knowledge, information and belief:

The investigation of the site described in the report was performed by Mark E. Baldi, Quality Control Manager; and James B. O'Brien, Group Manager (site investigators) who are qualified to make the investigations and formulate the opinions herein set forth.

The site investigators are familiar with the current provisions of the State of Massachusetts General Law Chapter 148; 527 CMR 9.00; and 502 CMR 3.00.

The site investigators are knowledgeable regarding the types of industrial, manufacturing, commercial or other processes or operations which might reasonably be expected to generate, use, treat, store or dispose of oil or hazardous material.

The site investigators have reviewed the recent history of the site and have considered the potential for the generation, use, treatment, storage, or disposal of oil or hazardous material by (a) the uses presently associated with the site and (b) to the extent ascertainable by inquiry, as noted.

In January 1992, the site investigators studied the site and, except as herein qualified, the areas in the vicinity of the site to assess the possible presence of oil and hazardous material at the site.

The following qualifications apply to ATEC's opinion:

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

The work performed in conjunction with this assessment and the data developed are intended as a description of available information at the dates and locations given. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

APPENDIX A: PHOTOGRAPHIC DOCUMENTATION

Building 2519, Fort Devens, Massachusetts
ATEC File No. 37.07.451

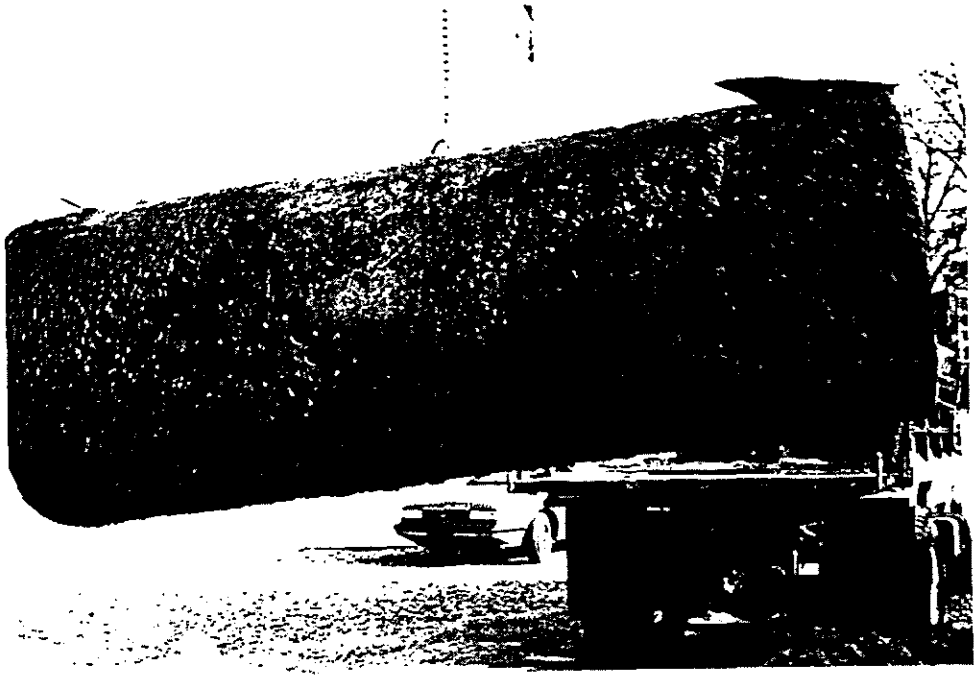
A-1: One (1) side of removed tank.

A-2: Opposite side of removed tank.

A-3: Excavation as viewed from west, facing east.

A-4: Excavation as viewed from east, facing west.

A-1



A-2

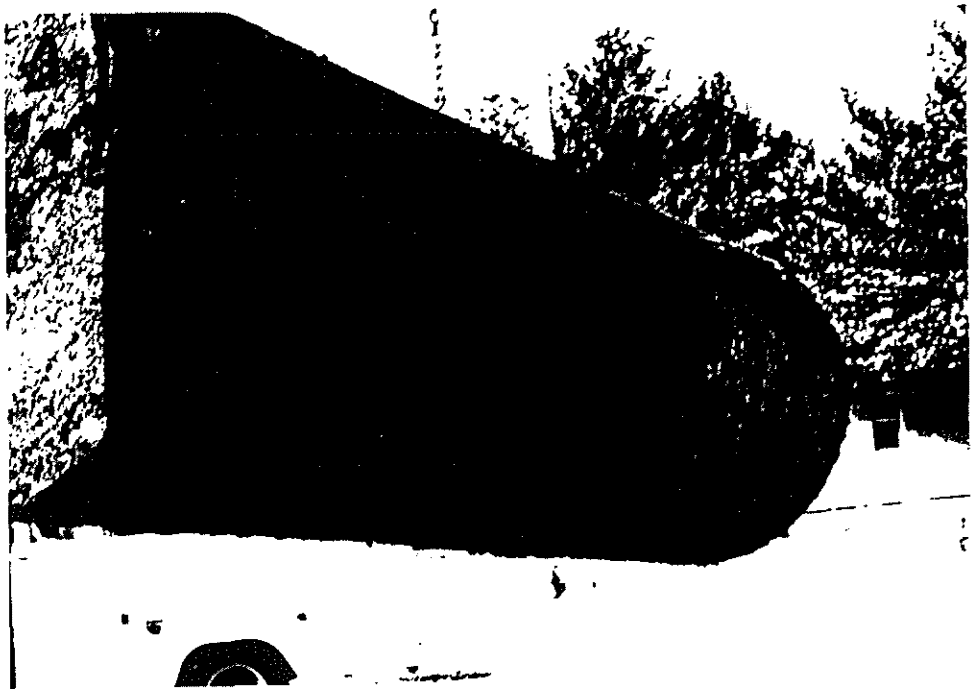


PHOTO DOCUMENTATION	PROJECT: 37.07.91.07451	ĀTEC
1,000 gallon UST excavation at: Building 2519 Fort Devens, Massachusetts		

A-3

A-4

PHOTO DOCUMENTATION

1,000 gallon UST excavation at:
Building 2519
Fort Devens, Massachusetts

PROJECT: 37.07.91.07451

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APPENDIX B: UST CLOSURE CHECKLIST

UST-CLOSURE O/C CHECK LIST	Tank 38 Bldg 259 Fort Devens MA			
1000 gal No. 2 Fuel				
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Calibrate PID & LEL/O2 meters	1/21/92	9:00		Site Topography: level. slight upgradient slope 100' to SE
Drain & flush piping & pumps	1/21/92	9:00		
Excavate to top of tank	1/21/92	9:30		Depth to tank: 1.5'
Vent tank note LEL/O2 levels & times	1/21/92		LEL O2	
		T1: 12:15	21.6	
		T2: 12:30	19.3	
		T3: 12:45	20.9	
		T4:		
		T5:		
		T6:		
		T7:		
		T8:		
		T9:		
		T10:		
		T11:		
		T12:		
Pump & clean tank:	1/17/92		13 gal. liquid + 35 gal	Tank Dimensions: 4X10.5'
Note quantities liquid (gal) & sludge (lbs)	1/21/92		___ lbs. sludge	surficial to moderate rust. no holes, perforations, Fill pipe broken at connection
Remove all tank connections, and cap openings	1/21/92	1:00		
Excavate soils to free tank	1/21/92	2:00		
Segregate stained soils: Note PID readings	1/21/92	2:30	PID (ppm) NDIR (ppm)	
(if >10 ppm NDIR also)			64	stock-1
All soils req to free tank visibl contaminated			75	stock-2

...OSURE O/C CHECK LIST

DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Remove tank, piping, pumps, and hardware.	1/21/92	2:30	Photographic Descriptions:	Soil Description: brown fine sand, w/
Photograph excavation; note descriptions.			Photo 1: Tank	some med-coarse gravel, cobbles,
Sketch Schematic			Photo 2: Tank	boulders
			Photo 3: excav E face W	
			Photo 4: excav W face E	
			Photo 5:	Depth to Groundwater/Conditions: N/A
			Photo 6:	
Place tank at safe distance from excavation	1/21/92	2:30		Depth of Excavation: 5.5'
				soils within excav stained,
Secure tanks transport off-site	1/21/92			grossly contam, strong odor
				from excav
Obtain 10 soil samples from	1/21/92	2:45	PID (ppm) NDIR (ppm)	Sample locations: 2.5-3.5' deep
excavation walls/bottom: Note PID/NDIR			SS1: 132	
readings and sample locations.			SS2: 66	
			SS3: 146	
			SS4: 60	
			SS5: 31	
			SS6: 3.4	
			SS7: 61	
			SS8: 76	
			SS9: 91	
			SS10: 52	
...les & 1 water samples	1/21/92	3:15		Sample Locations:
...s. Note sample locations.				LSS1: ≈ SS3
				LSS2: ≈ SS9
				LWS1:
				LSS3: composite stockpile

KE O/C CHECK LIST

FINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
				____ tons of backfill
Backfill excavation (if clean):				Backfill description:
Note amount & type of backfill				
Close open excavation (if applicable)				
Restore surface and rope off				
Remove rubbish/debris				
Transport hazardous material off-site:				Amount Classification
Note amount/classification				
Make copies of manifests, permits,				
and disposal receipts.				

APPENDIX C - OCMA 220 DATA SHEETS

Consulting Geotechnical, Materials and Environmental Engineers

TPH SOIL ANALYSES BY NON-DISPERSIVE INFRARED ANALYZER - MODIFIED EPA STANDARD TEST METHOD 418.1

PROJECT NAME, NUMBER, TANK: U.S. ARMY - FORT DEVENS 37.07.91.451 UST 0038

DATE: Jan 24, 1992

OPERATOR: RICHARD W.GERMAN

CALIBRATION DATA

TYPE CALIBRATION	FIRST READING INITIAL	FIRST READING FINAL	SECOND READING INITIAL	SECOND READING FINAL	THIRD READING INITIAL	THIRD READING FINAL	SPAN CHECK
ZERO:	1.5	0.0	-1.1	0.0	0.8	0.0	30.9
SPAN:	30.0	40.0	44.3	40.0	40.4	40.0	
ZERO:	6.5	0.0	-7.0	0.0	-0.6	0.0	

ANALYTICAL DATA

SAMPLE NUMBER	WEIGHT (g) GROSS	WEIGHT (g) TARE	1st DILUTION RATIO (ml) F-113	1st DILUTION RATIO (ml) SAMPLE	2nd DILUTION RATIO (ml) F-113	2nd DILUTION RATIO (ml) SAMPLE	INSTRUMENT RESULTS (ppm) 1st	INSTRUMENT RESULTS (ppm) 2nd	INSTRUMENT RESULTS (ppm) 3rd	CONCENTRATION mg/l
STOCK-1	85.2	79.1	20.0	1.0	—	—	51.8	52.0	—	5370.5
STOCK-2	81.9	73.3	20.0	1.0	20.0	0.5	60.0	35.5	35.7	5105.9
SS-1	81.5	75.0	20.0	0.5	25.0	0.5	68.0	57.2	57.4	13511.1
SS-2	82.0	75.9	20.0	0.5	25.0	0.5	69.0	60.8	61.0	15300.0
SS-3	87.2	76.3	25.0	0.5	—	—	62.1	61.8	—	8674.7
SS-4	84.3	75.2	25.0	0.5	—	—	63.3	62.7	—	10541.9
SS-5	83.0	76.3	25.0	0.5	—	—	56.0	54.0	53.6	12240.0
SS-6	85.4	78.1	20.0	0.5	—	—	16.5	15.0	15.1	2544.2
SS-7	83.5	75.4	20.0	0.5	—	—	5.4	5.6	—	852.2
SS-8	83.5	76.0	20.0	0.5	25.0	0.5	116.4	77.5	76.9	15687.6
SS-9	83.6	76.1	25.0	0.5	—	—	55.7	55.5	—	11322.0
SS-10	83.4	76.1	20.0	0.5	—	—	55.6	55.5	—	9351.4
—	—	—	—	—	—	—	—	—	—	*Error*
—	—	—	—	—	—	—	—	—	—	*Error*

APPENDIX D - LABORATORY REPORTS

In Response To The Future

CERTIFICATE OF ANALYSIS

Date: 2/03/92 Job: 215
Account: 95659
Received: 1/25/92

TO: ATEC ENVIRONMENTAL CC.
62 Accord Park Drive
Norwell, MA 02061

Project: DEVENS-TANK 38

Attn: Mr. Mark Baldi

Sample Number	Method Number	Parameter	Result	Unit	Sample Description
92021501	EPA-160.3	Total Solids	84	%	LSS1
	EPA-418.1	TPH/IR (Dry Wt.)	25000	mg/kg	
92021502	EPA-160.3	Total Solids	85	%	LSS2
	EPA-418.1	TPH/IR (Dry Wt.)	23200	mg/kg	
92021503	EPA-160.3	Total Solids	89	%	LSS3
	EPA-418.1	TPH/IR (Dry Wt.)	4750	mg/kg	

David Dickinson
Laboratory Manager

Page: 1

Environmental Science Services
332 Atwells Avenue, Providence, Rhode Island 02909 (401) 421-0398 Fax. (401) 421-5731

APPENDIX E - CHAIN OF CUSTODY FORMS

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	LAB PROJ. NO.
07.451	Devens - Tank 38	
	CLIENT	

SAMPLERS: *(Signature)*

SAMPLING METHOD: grab

SAMPLE I.D. NO.	DATE	TIME	COMPOSITE	GRAB	WATER	SOIL		FILTERED	ACIDIFIED	ICED		NUMBER OF CONTAINERS	LAB I.D. NUMBER	VOLATILE ORGANICS	BTX & E	TOTAL HYDROCARBONS	PCB'S	E.P. TOXIC METALS	TOTAL METALS (8)	IGNITABILITY		SAMPLE LOCATION / REMARKS
LSS 1	1/21/92			X		X						1				X						
LSS 2	1/21/92			X		X						1				X						
LSS 3	1/21/92		X	X		X						1				X						

LABORATORY ANALYSIS

ATEC Environmental Consultants
Division of ATEC Associates, Inc.
62 Accord Park Drive
Norwell, MA 02061
(617) 878-6200

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
	1/27/92				

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Project Manager / Phone #:

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	LAB PROJ. NO.
62.451	Dennis Tank 38	
	CLIENT	

SAMPLERS: *(Signature)* [illegible]

SAMPLING METHOD: grab

LABORATORY ANALYSIS

SAMPLE I.D. NO.	DATE	TIME	COMPOSITE	GRAB	WATER	SOIL		FILTERED	ACIDIFIED	ICED		NUMBER OF CONTAINERS	LAB I.D. NUMBER	VOLATILE ORGANICS	BTX & E	TOTAL HYDROCARBONS	PCB'S	E.P. TOXIC METALS	TOTAL METALS (8)	IGNITABILITY			SAMPLE LOCATION / REMARKS
L551	1/21/92			✓		X						1				X							split
L552	1/21/92			X		X						1				X							split
L553	1/21/92		✓	X		✓						1				X							split

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[illegible]	1/22/92				

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Project Manager / Phone #:

ATEC® Environmental Consultants
Division of ATEC Associates, Inc.
62 Accord Park Drive
Norwell, MA 02061
(617) 878-6200

APPENDIX F - HAZARDOUS WASTE MANIFESTS

PRESS HARD - YOU ARE WRITING THROUGH EIGHT COPIES. SEE REVERSE SIDE FOR DIRECTIONS

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE

One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator US EPA ID No. / Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
	MA 7 2 1 0 0 6 2 3 5 / 1 5 4 0 0 0 0 1	Page 1 of 1	

3. Generator's Name and Mailing Address: HQS Fort Devens AFZD-DEQ Box 10 Fort Devens MA 01433

4. Generator's Phone (508) 796-3003 - 34 ... 508-796-2711

A. State Manifest Document Number: MA F353641

B. State Gen. ID: SAME

5. Transporter 1 Company Name: Beede Waste Oil Corp.

6. US EPA ID Number: N H D 0 1 8 9 5 8 1 4 0

C. State Trans. ID: NH 4 4 6 7 3 5

D. Transporter's Phone 603 382-5761

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Trans. ID:

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address:
Beede Waste Oil Corp.
Kelley Road PO Box 127
Plaistow, NH 03865

10. US EPA ID Number: N H D 0 1 8 9 5 8 1 4 0

G. State Facility's ID: Not Required

H. Facility's Phone 603 382-5761

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	WASTE PETROLEUM OILS N.O.S. COMBUSTIBLE LIQUID **NA1270**	1	TT	0 1 4 0 0	G	~~MA01~~ M 4 9 7
b.						
c.						
d.						

GENERATOR

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)

a. c.

b. d.

K. Handling Codes for Wastes Listed Above

a. c.

b. d.

15. Special Handling Instructions and Additional Information

To be Recycled Exempt Recycle

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date Month Day Year
		01 07 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Robert D Murphy Jr	Robert D. Murphy Jr	01 07 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year

APPENDIX G - PERMITS/CERTIFICATIONS

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC SAFETY—DIVISION OF FIRE PREVENTION

PERMIT

FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

DIG SAFE NUMBER

In accordance with the provisions of Chapter 148, G.L., as provided in Section 38A this permit is granted to

Name: Atec Environmental Associates Inc.
Full name of person, firm or Corporation

To transport underground steel storage tank(s) to Approved tank yard# 14901

State clearly type of inert gas used in steel storage tank

steel tank: Dry Ice
method

FDID# 17919

Fee paid $ N/A

Name and address of contractor disposing tank ATEC Associates, 62 Accord Park Dr, Nor

Location to which tank will be transported

14901
Approved tank yard#

This permit will expire 31 Jan 1992

Signature of official granting permit (TITLE)
(Head of Fire Dept.)

RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK

NAME AND ADDRESS OF APPROVED TANK YARD: JOHN E. TOMBARELLO & SONS, 207 MARSTON ST., LAWRENCE, MASS. 01841

APPROVED TANK YARD NO. 1 4 9 0 1

Tank Yard Ledger 502 CMR 3.03(4) Number: 9 2 0 0 1 2 2

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by firm, corporation or partnership ATEC Environmental Assoc. and accepted same in conformance with Massachusetts Fire Prevention Regulation 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank dismantling yards.
A valid permit was issued by LOCAL Head of Fire Department FDID# 1 7 9 1 9 to transport this tank to this yard.
Name and official title of approved tank yard owner or owners authorized representative:

James Marsento (SIGNATURE) CPW (TITLE) 1-28-92 (DATE SIGNED)

This signed receipt of disposal must be returned to the local head of the fire department FDID# 1 7 9 1 9 pursuant to 502 CMR 3:00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)

FORM F.P. 291 (rev. 9/88) (OVER) MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE

DIMENSIONS

	Width (feet)		Length (feet)
Tank 1	48"	X	10'8"
Tank 2	-----	X	-----
Tank 3	-----	X	-----
Tank 4	-----	X	-----
Tank 5	-----	X	-----

Tank Removed From
Ft. Devens Bldg. #2519 - tank #38
(no. street)
Ayer
(city or town)

Fire Department Permit # None-Listed (if applicable)