Post-Removal Report Underground Storage Tank Closure 5,000 Gallon Waste Oil UST No. 0013 Building 204 DRMO 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

June 8, 1992



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

June 8, 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 5,000 Gallon Waste Oil - UST No. 0013 Building 204 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 5,000-gallon, single wall, steel Underground Storage Tank (UST) referenced as UST No. 0013, located at property known as Building 204, Fort Devens, Massachusetts (the site). 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.

Mach Esolog,

Mark E. Baldi Project Manager

J. J. Andracki for James B. O'Brien

Group Manager

EXECUTIVE SUMMARY

On May 20 and 21, 1992, ATEC closed one 5,000-gallon, single wall, steel Underground Storage Tank (UST) located at property known as Building 204, Fort Devens, Massachusetts (the site). The purpose of the closure was to excavate the UST and evaluate the potential for the presence of oil and hazardous material at the site.

ATEC's conclusions are as follows:

Upon excavation and removal, the tank was observed to be in good condition with no holes, perforations, or severe corrosion. However, the bottom of the tank was noted to be dented in several places. Inspection revealed associated piping to be intact and in good condidition.

Ground water was not encountered within the excavation.

Excavated, surface soil required to free the tank was visibly contaminated. This soil was located at the south end of the tank in the vicinity of the fill hopper, and was segregated. Soil within the excavation along the bottom and at the south end was visibly contaminated. A strong petroleum odor was evident in the excavation.

Ten soil samples were obtained from the excavation for field screening and field analysis utilizing a Photoionization Detector(PID) and Non-Dispersive Infrared (NDIR) Analysis respectively. PID readings ranged from 0.2 ppm to 73 ppm. NDIR results ranged from 89.3 ppm to 28,713.7 ppm Total Petroleum Hydrocarbons (TPH).

Two composite soil samples (Stock-1 and Stock-2) were obtained from excavated, stockpiled soils required to free the tank for PID and NDIR screening. Stock-2 was obtained from segregated, visibly contaminated stockpiled soil. PID results were 0.8 ppm and 34 ppm, respectively. NDIR results were 3,507.3 ppm TPH for Stock-1, and 30,863.8 ppm TPH for Stock-2.

Two 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 southeast wall of the excavation revealed 31,800 ppm TPH. Analytical results for LSS-2 obtained from the bottom of the excavation revealed 4,480 ppm TPH.

ATEC's recommendations are as follows:

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.

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. Based upon laboratory analytical results of the the former tank contents (WO-13), laboratory analyses should be conducted for Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds (VOCs), Semivolatile Compounds, and 13 TCLP Metals for soil samples or 8 RCRA Metals for aqueous samples.

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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POST-REMOVAL REPORT

United States Army Building 204 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 5,000-gallon, single wall, steel, Underground Storage Tank (UST) referenced as UST No. 0013, located at property known as Building 204, Fort Devens, Massachusetts (the site). The purpose of the closure was to excavate the UST and evaluate the potential for the presence of oil and hazardous material at the site. The closure of this UST was conducted on May 20 and 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 5,000-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.
- Laboratory Analysis of soil sampled from the UST excavation by a USEPA 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 UNDERGROUND STORAGE TANK EXCAVATION & REMOVAL

On May 20 and 21, 1992, one 5,000-gallon, underground, waste oil, storage tank was excavated and removed from the site. The UST was located approximately 56 feet northeast of the northeast corner of Building 204. Site topography is relatively level with a slight upgradient slope to the north. Surface cover at the site consists of soil and turf.

The tank was covered by approximately 1.0 foot of soil. Some excavated, surface soil required to free the tank was observed to be visibly contaminated. This soil was located at the south end of the tank in the vicinity of the fill hopper, and was segregated. Soil in the excavation consists primarily of light brown, fine sand with little medium to coarse gravel and few boulders. A large boulder (2' diameter) was embedded near grade level in the southwest wall of the excavation. The bottom of the excavation was approximately 7.0 feet below grade. Soil within the excavation along the bottom and at the south end was visibly contaminated. A strong petroleum odor was evident in the excavation. Ground water was not encountered within the excavation.

Associated piping was drained, and tank connections were removed. Inspection of associated piping to be intact and in good condition. UST No. 0013 was estimated to contain 155 gallons of waste oil and sludges. Approximately 30 gallons of waste oil was removed on January 27, 1992, and transported to a licensed T.S.D.F. (Beede Waste Oil Corporation). 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, perforations, or severe corrosion. However, the bottom of the tank was noted to be dented in several places. Following venting of the tank, an access way was cut in the end of the tank to allow entry for cleaning. Approximately 20 gallons of waste oil and sludges were removed, and transported to a licensed T.S.D.F. (Hitcock Gas Engine Company) utilizing a vacuum truck on May 21, 1992. Appropriate hazardous waste manifests are included in Appendix F. It was then entered and vacuumed/wiped clean of any residual slops. Approximately 125 gallons of waste oil and sludges were removed and drummed on May 21, 1992 and was transported on June 5, 1992. Appropriate hazardous waste manifests are included in Appendix F.



Waste oil sludges were sampled on April 14, 1992 for laboratory analyes for hazardous waste manifest characterization purposes. The sample (WO-13) was analyzed for Volatile Organic Compounds (USEPA Method 8010/8020), Semivolatile Compounds (USEPA Method 8270), 13 TCLP Metals (USEPA Method 6010), Polychlorinated Biphenyls (USEPA Method 8080), flashpoint (USEPA Method 1010), and corrosivity (USEPA Method 9045). See Section 4.0 for further infortmation.

The scrap tank was removed from the site on June 1, 1992. The tank was disposed at John C. Tombarello & Sons. A copy of the disposal receipt is included in Appendix G.

3.0 SAMPLING AND ANALYSIS PLAN

Ten 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 of the samples (SS-1 to SS-8) were obtained from the excavation walls at a depth of approximately 3.0 - 4.0 feet below grade. Two of the samples (SS-9 and SS-10) were obtained from the bottom of the excavation at a depth of approximately 7.0 feet below grade. Two composite soil samples (Stock-1 and Stock-2) were obtained from excavated, stockpiled soils required to free the tank. Stock-2 was obtained from segregated, visibly contaminated stockpiled soil. Sampling locations for the excavation are depicted on the Sampling Schematic attached as Figure 2.

Two soil samples (LSS-1 and LSS-2) were obtained from the excavation for laboratory analysis. Soil Sample LSS-1 was obtained from the southeast wall of the excavation. Soil sample LSS-2 was obtained from the bottom of the excavation. 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 custody forms are included in Appendix E.



4.0 ANALYTICAL RESULTS

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

Sample No.	PID (ppm)	NDIR(ppm)
SS-1	6.5	8,760.8
SS-2	1.8	8,713.2
SS-3	28	23,029.5
SS-4	2.8	688.7
SS-5	5.3	89.3
SS-6	0.2	2,698.7
SS-7	1.6	1,575.0
SS-8	54	24,731.5
SS-9	73	28,713.7
SS-10	27	4,053.3
Stock-1	0.8	3,507.3
Stock-2	34	30,863.8

TABLE 1 - PID AND NDIR RESULTS

Laboratory analytical results of the two soil samples obtained from the excavation revealed 31,800 ppm TPH for LSS-1, and 4,480 ppm TPH for LSS-2 (See Appendix D).

Laboratory analytical results for the sample of waste oil sludge (WO-13) obtained from the tank for hazardous waste manifest characterization purposes revealed the following levels of Volatile Organic Compounds: 20,100 ppb Trichloroethene. Laboratory analytical results revealed the following levels of Semivolatile Organic Compounds: 175 ppm Isophorone, 70 ppm Bis(2-ethylhexyl)phthalate, 55 ppm Flourene, and 2,430 ppm 2-Methylnaphthalene. Laboratory analytical results of WO-13 for 13 TCLP Metals revealed 2.7 ppm Lead, and 0.05 ppm Zinc. Laboratory analytical results did not reveal levels for Polychlorinated Biphenyls (See Appendix D).

5.0 CONCLUSIONS AND RECOMMENDATIONS

ATEC's conclusions are as follows:

Upon excavation and removal, the tank was observed to be in good condition with no holes, perforations, or severe corrosion. However, the bottom of the tank was noted to be dented in several places. Inspection revealed associated piping to be intact and in good condition.

Ground water was not encountered within the excavation.

Excavated, surface soil required to free the tank was visibly contaminated. This soil was located at the south end of the tank in the vicinity of the fill hopper, and was segregated. Soil within the excavation along the bottom and at the south end was visibly contaminated. A strong petroleum odor was evident in the excavation.

Ten soil samples were obtained from the excavation for field screening and field analysis utilizing a PID and NDIR Analysis respectively. PID readings ranged from 0.2 ppm to 73 ppm. NDIR results ranged from 89.3 ppm to 28,713.7 ppm TPH.

Two composite soil samples (Stock-1 and Stock-2) were obtained from excavated, stockpiled soils required to free the tank for PID and NDIR screening. Stock-2 was obtained from segregated, visibly contaminated stockpiled soil. PID results were 0.8 ppm and 34 ppm, respectively. NDIR results were 3,507.3 ppm TPH for Stock-1, and 30,863.8 ppm TPH for Stock-2.

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ATEC's recommendations are as follows:

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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. Based upon laboratory analytical results of the the former tank contents (WO-13), laboratory analyses should be conducted for Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds (VOCs), Semivolatile Compounds, and 13 TCLP Metals for soil samples or 8 RCRA Metals for aqueous samples.

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. 0013, located at property known as Building 204, 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, Project 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 May 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 204, Fort Devens, Massachusetts ATEC File No. 37.07.91.07451

- A-1: One side of removed tank.
- A-2: Opposite side of removed tank.
- A-3: Excavation as viewed from north, facing south.

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A-4: Excavation as viewed from south, facing north.





APPENDIX B: UST CLOSURE CHECKLIST

UST CLÓSURE O/C CHECK LIST	11571.	s - 5 000	and words to	Ching 2011	
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS		NOTES
	(1) (6)				Site Topography: celland and the
	3/20/76	Q	<u>.</u>		Unered clop to it - UT
brain & flush piping & pumps	5/10/92	8:14			,
xcavate to top of tank	5/20/72	54.7.0		~~~~~	Depth to tank: 1.0
Les teule pote I EI (V) Iguale & Simon	(7/- 5/6-)		I.FI.		soull tot cover
en tark lide lelloz levels & tines	2734827	T_{1}		20.7	
		T2: / / / / / /	<u>.</u>	20.1	
		Τ3: / ζ σ	ō	70, 9	
		T4:7:45	0	70.5	
		T5: 2 : 00	0	70.5	
	1	T6: 7: 15	Ö	70.7	
		T7:			
		T8:			
		T9:			
		T10:			
		T11:			
~~~~~		T12:			
Pump & clean tank:	1/27 192	10100	<u>30</u> gal liquid		Tank Dimensions/Conditions: 6D×737C
Note quantities liquid (gal) & sludge (lbs)	5/71/91	2:15	175 9465. sludge		Good courd go he los part or anonica
	5/21/92	9:00	20 gal shope		Tank dented along langit of
Remove all tank connections, and cap openings	5/10/91	9:45			Lation,
Excavate soils to free tank	5/20/92	10:10			
Segregate stained soils: Note PID readings	5/20/92	10:105	PID (ppm)	NDIR (ppm)	
(if>10 ppm NDIR also) => Soil comerced			0.8		5-6,1,-1
to free tack vis contam.			34	~~~~~	Preder & mart
Sola 5 and acound fill				*****	
hopper yeary dade by stained.					
were contain Decare a ded					
	1	1			8

UST CLOSURE O/C CHECK LIST				
				NOT22
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
Remove tank mining numps and hardware	(170/97	10.110	Photographic Descriptions:	Soil Description: /isht b. I want
Photograph exceptation: note descriptions			Photo 1: Tank	Let's m. c. most few boulder
Sketch Schematic			Photo 2: Tang 4	
			Photo 3: France M Land S	
			Photo 4:	There & there have a tel availed
			Photo 5:	Depth to Groundwater/Conditions:
			Photo 6:	
Place tank at safe distance from excavation	G/120197	10:45		Depth of Excavation/Conditions: $\overline{2}, \mathcal{O}$
				contan soil through it have in the
Secure tanks transport off-site				word of send & hot and parent
				noticeable petro indoc =
Obtain 10 soil samples from	~176/9Z	12:00	PID (ppm) NDIR (ppm)	Sample locations: 3.0-4.0' chistory
excavation walls/bottom: Note PID/NDIR			SS1: 6.5	5
readings and sample locations.			SS2: 1.8	1 wall
			SS3: 28	F. Joseph M.
			SS4: 7.8	E wall
			SS5: < 3	N world
			SS6: 0.2	N wall
		1	SS7: 1.6	ed our H
			SS8: 54	11 west
		[	ss9: 73	1. + 1 min
			SS10: 27	1.04101.2
		}		
		<u>[</u>		
Obtain 2 soil samples & 1 water samples	5170/97	12:40		Sample Locations:
for laboratory analysis. Note sample locations.		<u> </u>		LSS1:
		1		LSS2: 10
		<u> </u>		LWS1:
		1		

UST CLOSURE O/C CHECK LIST	[			
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
				tons of backfill
Backfill excavation (if clean):	N/A			Backfill description:
Note amount & type of backfill	~/74			
Close open excavation (if applicable)	~ /A			
Restore surface and rope off	6-20-92	3:00		
Remove rubbish/debris	5-20-92	3.15		
Transport hazardous material off-site:		······································		- Amount - Classification
Note amount/classification		<u></u>		
Make copies of manifests, permits,	5-3-92	10:00		
and disposal receipts.	6-3-92	16:00		

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## APPENDIX C - OCMA 220 DATA SHEETS



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#### 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 0013

DATE: <u>May 26, 199</u> OPERATOR: <u>Charles Langenhagen</u>

#### CALIBRATION DATA

TYPE	FIRST RE.	ADING	SECOND R	eadnig	THIRD REA	ADING	SPAN					
CALIBRATION	INITIAL	FINAL	INITIAL	FINAL	<u>INTI'IAL</u>	FINAL	CHECK					
ZERO:	2.6	0.0	-1.0	0.0	-0.2	0.0	26.8					
SPAN:	31.1	40.0	45.0	40.0	40.8	40.0						
ZERO:	7.8	0.0	-7.0	0.0	-0.9	0.0						

#### ANALYTICAL DATA

SAMPLE	WEIGH	T (g)	1st DILUTIC	N RATIO [m]	2nd DILUTIO	N RATIO [ml]	<b>HISTRUME</b>	IT RESULTS	(pymL	CONCENTRATION
NUMBER	GROSS	TARE	F-113	SAMPLE	<u>F-113</u>	SAMPLE	<u>1st</u>	<u>211d</u>	<u>3rd</u>	mgfl
STOCK-1	82.0	75.3	20.0	1.0			37.5	37.3		3507.3
STOCK-2	80.9	75.1	25.0	0.5			116.8	117.0		30363 3
<u>\$8-1</u>	82.1	74.8	25.0	0.5			43.7	418		3760,3
88-2	81.2	75.3	25.0	0.5	میداند. پر بروند انداز ایند ور واقار ایند		33.4	33.6		3713.3
	<u></u>	75.0		0.5			115.7	115.9		29009 5
88-4	81.6	75.2	17,5	3.0			21.4	215		688.7
88-5	80.7	74.5	17.5	3.0			2.5	2.7		£ 93
55-6	81.9	75.2	17.5	3,0	20.0	1.0	72.6	287	<u>28.5</u>	2693,7
<u> </u>	82.6	75.2	20.0	1.0		aller an allelin andra andra andra andra andra 1 f	18.3	18 5		1575 0
55-8	82.6	75 3	25.0	0.5			113.0	118.0		24731.5
48 U	<u>\$? 7</u>	75.4	25.0	0.5	• •••	····	136.5	137.0		287137

APPENDIX D - LABORATORY REPORTS

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In Response To The Future

## **ERTIFICATE OF ANALYSIS**

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#### FOTAL PETROLEUM HYDROCARBON-IR Method 418.1

Client: ATEC Environmental Consultants

Client Project ID: Ft. Devens, UST 13, Bldg 204 ESS Project ID: 921346 Date Samples Received: 5/22/92 Date Reported: 6/2/92

Client ID	Lab ID	Results	Units	MRL	% Solids
LSS-1	921326-01	31,800	mg/Kg	537	93%
LSS-2	921326-02	4,480	mg/Kg	105	95%

MRL = Method Reporting Limit

Note: Results reported on a dry weight basis.

Approved by: Davie Dickinson Laboratory Director

Date: ______2

Invironmental Science Services

522 Atriclle Areena Providence, Rhore Island 02909 (401) 421-0398 Fax, (401) 421-5731

se Mu	AL SCIENCE SUC	то	15087722980	P.02
	-	In Response We	o The Future	**************************************
TIFICATE OF ANALYSIS Wasle	oil sludge analy: stamp, nemou	;íS al		
Client: ATEC Environmental Con	sultants			
Client Project ID: UNT 13, Blo	ig 204	ESS Pro	ject ID: 9	20975
Client Sample ID: W.Q13		ESS Samp	ple ID: 92	0975-01
Date Sample Received: 4/20/92		Date Rep	ported: 5/	11/92
Parameter	Results	Units	MRL	Method
Corrosivity (pH)	7.58	s.v.	N/A	9045
Flashpoint	No Flash	°F	200	1010
Polychlorinated Biphenyls	ND	mg/Kg	Attached	8080
Semivolatile Organics Isophorone Bis(2-ethylhexyl)pithalate Fluorene 2-Methylnaphthalen;	175 70 55 2,430	mg/Kg mg/Kg mg/Kg mg/Kg	Attached Attached Attached Attached Attached	8270 8270 8270 8270
<b>Volatile Organics</b> Trichloroethene	20,100	ug/Kg	Attached	8010/802
Toxicity Characterist & Leaching	ng Procedure			1311
Lead	2.7 0.05	mg/L mg/L	Attached Attached	6010 6010

Approved by: David Dickinson Laboratory Director

11 211492 Date:__

Invironmental Science Services

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APPENDIX E - CHAIN OF CUSTODY FORMS

#### CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJEC	CT NAM	<u>е</u> (	·	13	- 7.	11	, Ž	04	/				LAB	PRO	J. NO	». /	/	LAE	BORA		RY A	NAL	YSIS		7	හු	/
SAMPLERS:	Signature)			a <u>v</u>	<u>e e</u> 												 3		3	/3		/					holens.	
SAMPLING M	1ETHOD	·····	OSITE		œ			RED	FIED			ER OF AINERS	E.				PO VII			MET.	BULT 10	/ ``/			( ( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )			
SAMPLE I.D. NO.	DATE	тіме	сомр	GRAB	WATE	SOIL		FILTER	ACIDII	ICED		NUMB	LAB I.I NUMB	2				50/04						ŝ	or with	/		
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<u> </u>	an fa			X		×				×		1				~							-Sj	>/.7	T 			
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## APPENDIX F - HAZARDOUS WASTE MANIFESTS

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DEPARTMENT OF ENVI	CONNECTICI	JT PROT	rec:	TION			
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8700-22 (Rev. 9/91) Form Approved OXAB No 2050-0039. Expires 9/30/94. Previous edition is obsolete.



#### COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE . . . One Winter Street . 1

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APPENDIX G - PERMITS/CERTIFICATIONS

# The Commonsmealth of Massachusetts



Department of Public Safety-Division of Fire Prevention

APPLICATION FOR PERMIT FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

To: HEAD OF FIRE DEPARTMENT

<u>5-8</u> 1992
C.82 S.40 M.G.L.
DIG SAFE NUMBER
92194383
Start Date

In accordance with the provisions of Chapter 148, G.L. as provided in Section 38A Application is hereby made by  $\frac{Atec}{(Name of Person, Firm or Corporation)}$ 

107 Accord Parte D. Norwell MA

For permission to remove and transport underground steel storage tank(s) from

Bldy 204 Market St, Fort Devene Street address (city or town) to approved Tank Yard#<u>/496/</u>_____ FDID# 17919 State clearly type of Type of inert gas used inert gas used in steel storage tank Name of Person, Firm, Corporation disposing tank <u>ATEC</u> Date issued - rejected 5/13 1992 By: <u>Harden Signature of Applicant</u> Date issued - rejected 5/13 1992 By Date of expiration 19 paid/due Fee (MGL C-148, S-10A) The Commonwealth of Massachusetts DEPARTMENT OF PUBLIC SAFETY-DIVISION OF FIRE PREVENTION 5-8 192 PERMI .12 5.40 M.O.L. FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD DIG SAFE NUMBER In accordance with the provisions of Chapter 148, G.L. as provided in <u>92194383</u> Section 38A this germit is granted to finel Date .... Name: <u>ATFC, Fruing mental</u> 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 tank: Dry Ice steel storage tank Name and address of contractor disposing tank <u>ATEC</u> Location to which tank will FDID# 17919 Fee paid \$ _____ be transported 14901 Approved tank yard# Spinature of off Kial granting permit(TITLE) (Word of Fire Dept ) This permit will expire 7/13 1992

RECEIPT OF OLSPOSALLOF UNDERGROUND IS	VEELS STORAGER PANKS TO SHORE THE STORAGER PANKS
VAME AND ADDRESS OF APPROVED TANK YARD APPROVED TANK YARD APPROVED TANK YARD NO. 1490 Constraints of the second seco	$\begin{array}{c c} \hline 0 & \underline{\leftarrow} & \underline$
his signed receipt of disposal must be returne	DATE SIGNED d to the local head of the fire department
ORM F.P. 291 (rev. 9/88) (OVER	MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE
DIMENSIONS Width Length ank 1 $-\underline{72''} \times \underline{33'10''} (5.000 \text{ Gre})$ . ank 2 $ \times$ ank 3 $ \times$ ank 4 $ \times$ ank 5 $ \times$ (feet) (feet)	Tank Removed From <u>FL: Devens - Blag = 204 - tank = 13</u> (no. street) <u>Ayer</u> (city or town) Fire Department <u>Now - listed</u> Permit # <u>(if applicable)</u>