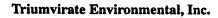
Appendix E WAY-09 Removal





Hazardous Waste Specialists P.O. Box 136, 63 Inner Belt Road, Somerville, MA 02143-0003 617 628-8098 800 966-9282 Fax 617 628-8099

# Analytical Results



# Closure Report

# Oil Tank Removal

for

### Raytheon Company

Electronics Systems 430 Boston Post Road Wayland, MA 01778

Presented to:

Ms. Grace Hwang

Presented by:

Mr. Kevin C. Brayton Triumvirate Environmental, Inc. 63 Inner Belt Road P.O. Box 136 Somerville, MA 02143-0003 (800) 966-9282

## Hazardous Waste Specialists P.O. Box 136, 63 Inner Belt Road, Somerville, MA 02143-0003 617 628-8098 800 966-9282 Fax 617 628-8099

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1.	Summary	of	Events

- II. Daily Logs and Permits
- III. Shipping Documents, Profiles, and Weight Slips
- IV. Analytical Results
- V. Health & Safety Plan
- VI. Invoice

### Summary of Events

#### A. Observation of Tank Removal Activities

Prior inspections of tank did not allow estimates as to amount of material possibly contained. Proximity of tank was confirmed with minimal interferences via magna probe. It was confirmed that surrounding landscape should be removed prior to beginning of project so it would not interfere or be damaged while work was in progress. Poly was applied prior to excavation and all soils were stock piled on poly and covered with poly at the end of each work shift. Upon opening up the site with a backhoe on May 6, 1996, the tank was determined to be approximately 80% full of #2 fuel oil. Tanker/Frac Tank set-up was called on site to pump out product in tank. Tank was pumped empty with contents sent to *United Industrial Services*, *Inc.* and the site was then closed for the day.

On the second day, the tank was purged of vapors, cut open, and cleaned. All necessary health and safety permits were obtained (e.g. hot work, confined space entry) prior to performing applicable work. After receiving Wayland Fire Department's on site visit and approval to proceed, the tank was pulled out intact with no apparent staining into surrounding soils.

Soils below tank were stockpiled separately from soils above tank. One composite sample was collected from each stock pile. A total of five composite confirmatory samples were collected from the North, East, South, and West walls and the excavation bottom. All samples were sent to Alpha Analytical laboratories on a 24-hour turnover for Total Petroleum Hydrocarbon by GC, and the composite sample from the "below tank" stock pile was also analyzed for total RCRA 8 metals, Polychlorinated biphenyls, and Volatile Organic Compounds. In addition, field screening using a photoionization detector (PID) was performed continuously throughout the entire tank removal and soil excavation process. PID readings varied between 0.7 ppm to 3.5 ppm.

Laboratory results were received on May 8, 1996 which indicated no detection for each soil sample collected except for low levels of Arsenic (8.0 mg/kg), Barium (27 mg/kg), Chromium (11 mg/kg), and Lead (4.9 mg/kg) from the "below tank" stockpile sample. These low levels of metals were considered to be acceptable because they were well below Massachusetts Contingency Plan S-1 soil standards.

On May 10, 1996, all excavated soils and one drum of sludge and debris were properly removed and transported from the *Raytheon* facility to approved offsite locations for proper disposal/recycling. The excavation was backfilled and compacted with clean fill materials, and the site was restored to pre-work conditions.

## B. Chronology of Events

5/1/96	Site Supervisor out to preview site, inspect dig safe, check overhead lines, etc.
5/2/96	Site Supervisor with Magna Probe to determine exact location of tank.
5/6/96	Tank unearthed, pumped, and product manifested and shipped to <i>United</i>
	Industrial Services for reuse.
5/7/96	Tank cleaned and removed after receiving Wayland Fire Department's approval
	to proceed. Two stock piles created and samples sent to lab.
5/8/96	Lab results indicate no TPH detection in the confirmatory soil samples.
5/9/96	Arranged for loader, transportation, and approval of rubble into AMREC.
5/10/96	Soils removed and shipped to AMREC. One drum of sludge and debris
	manifested and shipped to United Industrial Services for disposal. Clean fill
	utilized to restore site.

Hazardous Waste Specialists P.O. Box 136, 63 Inner Belt Road, Somerville, MA 02143-0003 617 628-8098 800 966-9282 Fax 617 628-8099

# Daily Logs and Tank Permits



Triumvirate Environmental, Inc.

Hazardous Waste Specialists 63 Inner Belt Rd., Somerville, MA 02143 (800) 966-9282 FAX: (617) 628-8099

SECONDARY PHONE #:	CONTACT:	PAINT BASKETS PLATE COMPACTOR EXTENSION CORDS GARDEN HOSE AIR HOSES 3/8"
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Triumvirate Environmental, Inc.

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ALL COPIES OF PERMIT WILL REMAIN AT JOB SITE UNTIL JOB IS COMPLETED ONE COPY MUST BE SUBMITTED TO THE HEALTH AND SAFETY SPECIALIST

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# The Communealth of Massachusetts Department of Public Safety Division of Fire Prevention and Regulation

### APPLICATION FOR PERMIT, AND PERMIT, FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

FDID# 1931	Permit #	Date
City, Town or District		C.82 \$.40 M.G.L.
Fee Paid: 5 6,		DIG SAFE NUMBER _ いいないとうの! start date_may に なに
In accordance with the	provisions of Chapter	148, Sec. 38A, M.G.L.,
527 CMR 9.00 applicati	on is hereby made by:	MIKE JELESTY - TIJUMY JOTE
Street Address & City	or Town: 63 Immer 5	sur .z.) some. Juine ml
Signature of applicant	:_m), ), Wi	
Applicants name printe	de mise Jerennix	
For permission to remo	ve and transport one t	inderground storage tank from.
Owner: AUTHEON	Street Addre	255: . 77 20 WAYEAU.) MA
Firm transporting wast	e: Townson del Peter	State Lic. # ma 359
Hazardous waste manife	st # <u> </u>	E B # 20 044286488
Approved tank yard:	SIGMOF JOHOL ME	ELLO AU. 100 \$ 0009
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Type of inert gas:	20 1682	UL tank #:
Tank capacity: 1000 G	Substance	e last stored: For our
Date of issue: 5.4.	96 19 Date of e	expiration: 5 1 1996
Signature/Title of Off.		Ken Hart

NAME AND ADDRESS,	rground steel stora MN 0. Tombahello a son MN 0.3570N 87.	GE TANK	<u>\$`</u>							
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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 Trumping Env 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# / 7 3 15 to transport this tank to this yard.  Name and official title of approved tank yard owner or owners authorized representative:										
11	_									
James Maranto	<u>(*pw</u>	5-07-96								
SIGNATURE	TITLE	DATE SIGNED								
This signed receipt of disposal <u>must be returned</u> to the local head of the fire department FDID#   73 5 pursuant to 502 CMR 3:00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)										
FORM'F.P. 291 (rev. 9/88)	(OVER)	MASSACHUSETIS STATE FIR	E MARSHAL'S OFFICE							
			3.							
		*								
			4							
			V.							

DIMENSIONS	Tank Removed From
Width Length  Tank 1 40" x 10'8" (1000 902)	(no. street)
Tank 2 X	(city or town)
Tank 3 X	Fire Department Permit #
Tank 4 X	Permit #(if applicable)
Tank 5 X (feet)	

#### Triumvirate Environmental, Inc.



Hazardous Waste Specialists P.O. Box 136, 63 Inner Belt Road, Somerville, MA 02143-0003 617 628-8098 800 966-9282 Fax 617 628-8099

Shipping Documents, Profiles, and Weight Slips

# DEPARTMENT OF ENVIRONMENTAL PROTECTION inzardous-Weste MANIFEST PROGRAM 79 Elm St.: Hartford, CT 06106-5127

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UNIFORM HAZARDOUS Generator's US EPA ID No. WASTE MANIFEST W. A.D. 9.9.0.6.8.5.5.5.4 15.0	Manifest currient No. 2	tenuncia	in in the Shallet edition in its interest that the state of the same of the same same of the same same same same same same same sam
3 Generator's Name and Mailing Address RAYTHEON COMPANY		State Manitost Docu	Ment Number
528 BOSTON POST ROAD	ذ ا	GI F U5	<u>07811</u>
SUDBURY MA 01776	Ţ.	B. (d.S.). (Gon. Gilê Add	nesa)
4. Generator's Phone ( (508)) 440-2729 GRACE HWANG	[]	430 BOSTON P	OST ROAD
5 Transporter 1 Company Name 6. US EPA ID Numb		WAYLAND MA"	
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TRIUMVIRATE ENVIRONMENTAL. INC. IM A D 9 8 5 2 8 4	ver /		10 1) MA 21009
/ Transporter & Company Name			17) 628-8098
9 Designated Carilly Name and Site Address 10. US EPA ID Numb		A CONTRACTOR OF THE PARTY OF TH	
5 Designation than your services and the services are services as the services are services are services as the services are se	<b></b>		
UNITED INDUSTRIAL SERVICES. INC.	· 1	amandara.	1
136 GRACY AVENUE		ECCLERCION.	(OLTHOUGHAN)
MERIDEN CT 06650 1C T D 0 2 4 6 4 4	6 3 8 9 U	THE STATE OF	033 1130 -01 p.r.
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Contai	ners 13. Total	14. Unit
11. (II) DOT Descriptor (mending / 1000) Ortopolis	No.	Type Quantity	WIVE Waste No.
A Other regulated substances, solid, n.o.s.			EDY V NOWE
9, NA3077, PG III ERG# 31	L	- 1 1 -	STATE
(Oil, Dabria)	001	00250	P MA99
b. 529			BPA
		· ·	ATAYE
	1 [		
C			EPA
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		K. Handling Godes for	Wanta Listad Arrena
J. Additional Descriptions tot Meterials Listed Above			i Intenn Emai
(1.) #2 Sucil Oil Contaminated 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	West to Miles	アベルシー	
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一型 <b>用面积 20</b> 15 15 15 15 15 15 15 15 15 15 15 15 15			)
15 Special Handling Instructions and Additional Information		•	•
	ER# (800	966-9282	
(/ (35) of inschi/Also, .CRO2/Approval# DIA064A	CONTACT:	EO COODE	
	oint of Departur		
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Generator Name HAYTHEN COM	Manifest Number CTF 05078
	us waste as defined in 40 CFR 261 and is not subject to
Subpart. I understand that United Oil Recovery, Inc. and that are regulated under the CWA. This waste is a  The applicable waste codes are checked below.	and therefore regulated under 40 CFR 268. This waste is under 40 CFR 268.40 or specifically exempt under this d Bridgeport United Recycling, Inc. operate treatment systems wastewater nonwastewater as defined in this Subpart.
Spent Solvent Wastes	Characteristic Wastes
	D001 Ignitable Liquids, High TOC (>10%) D004 Arsenic D018 Benzene D006 Cadmium D019 Carbon tetrachloride D021 Chlorobenzene D022 Chloroform D007 Chromium D023 o-Cresol D024 m-Cresol D025 p-Cresol D026 Cresol D027 I,4-Dichlorobenzene D028 1,2-Dichloroethane D029 I,1-Dichloroethylene D030 2,4-Dinitrotoluene D031 Hexachlorobenzene D032 Hexachlorobenzene D034 Hexachlorobenzene D035 Methyl ethyl ketone D036 Nitrobenzene D037 Pentrachlorophenol D038 Pyridine D039 Tetrachloroethylene D039 Tetrachloroethylene D040 Trichloroethylene D041 2,4,5-Trichlorophenol D042 2,4,6-Trichlorophenol D043 Vinyl chloride
The information and the state of the state o	
The information provided here is true and accurate to the best of my knowledge. The infor here if the waste meets the treatment standards)	of the second see contract and uniformize with the waste through analysis and testing or c standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set and in true, accurate and complete. I am aware that there are significant permittee for
Signature Huang Tit	uex Technical Specialist
Print Name & Grace Hwang Da	ste / 5/10/96

DEPART

PRINT SMITHIN COMMECTION CONTACT OF DEF FOR AND CHEMICAL SPAT PESPONSE AT 1733, 545 55

# DEPARTMENT OF ENVIRONMENTAL PROTECTION

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7 Transporter 2 Compan	y Name	6. US EPA ID Number	300			OH UBUTERA Y-	
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15 Special Handling Insuruc	tions and Additional Information 334	~ 7	ANK	# 1.30	O	<u> </u>	$\dashv$
	ER# (800) 900-7252	<b>38</b> ) '	1.11	Wh	7 "04		- 1
]•[ Y )•F	CONTACT: ED GOODE						
6 GENERATOR'S CENTIFI	CATION: I hereby declare that the contents	of the consisement are full.	of Departure		Ove by		_
D. COEL SINDOUGH HEITIE WIT	ki are classified, packed, marked, and label mernational and national government regula	<b>ad sad see la all</b>			by highway		
en villneun solst a mu i II	Mercine i certify that I have a second of the			-	the degree :	have desermined to be	. ار
ground or highly Similal brits	to health and the emorphonic OR at Lam a	SMAIL outside consists. I have	Pisposal curre Pimade a god	ently available : od laith allon to	10 ma which	Minimizes the presum	·   -
Printed/Typed Name	nagement method that is available to me an	Signature					_  _
Grace	Hwand.	Wrace.	رمصور ا	سسهله		Afonia Day Ve	<i>"</i>   7
	ement of Receiptol Materials	1	1 was	7		050691	
Printed Typed Name		Signaturo	·			Month Day Fe.	뉘뜨
STEPHEN	M Drapeau	Stephe	M /	n su	BRICE	05069	215
Printed/Typed Name	ement of Receipt of Materiels	18.000			,		$\Box \propto$
		Signature				Month Bay Yes	, , -
Discrepancy Indication Spa	ice					<u> </u>	_ ∼
		ه.			¥		
Facility Owner or Operator: (	Certification of receipt of hezerdous meteria	te proposed this this in 120-22					1
Printed/Typod Name	A L	Signature	epi as noted	л нет 19,		Monin Day Zuai	_
	H. JUIKE	YIJA	<i>[</i> ].	J. 1.	110	Monin Day Least	1
1 E/UD-22 (Pav. 9/81) Form Appr	oved OMB No. 2050-0039, Employ \$73046, Previous				<u> </u>		ك



1.36 GRACEY AVENUE MERIDEN CT 06451-2270 TEL. (203) 238-6745 FAX (203) 630-2503 CHATI

CHAIN OF CUSTODY

#### Incoming Load

0a <sup>-</sup>	te 05/07/96	Transporter <u>ZE</u>	cco co	n engan penggapan penggapan bahasa engan penggapan
Ti	me In	Time Out		
	mple Number <u>7</u>			
Re	eived by	Time In	Time O	ut
	rk Order <u>00047956</u>			
¦Xː fotal Halogens <u>30</u>	81 I			
X Flash Point 127°	31 \$			
Methylene Chloride	3			
Freen	# I			
Trichloroethylene		trachloroethylene		., vierą, <u>arujus, piede</u> lės (1864 v. 1
		······································		
	<u>Transporter</u>	Invoice		
W/O No. Appr ID Mani	est Waste	Quantity UOM	Price	Ext Ant
00047956 4035ALH CTFO	507822 CR02	762.00		

Land Ban Notifica	tion Form	1
Generator Name AYTHEON COM	ANY	Manifest Number CTF050 78
Nonhazardous Waste. This waste is not hazardo regulation under 40 CFR 268.		
Hazardous Waste. This waste is hazardous waste banned from land disposal values are	and therefore regu	lated under 40 CFR 268 This
Subpart. I understand that United Oil Recovery, Inc. and that are regulated under the CWA. This waste is a		· TO UL SIXCUICALIV CYCINGI IIIII
Spent Solvent Wastes	Characteri	stic Wastes
F001, F002, F003, F004 F005	D001	Ignitable Liquids, High TOC (>10%
Accione Benzene	D001 D004	Ignitable Liquids, Low TOC (<10%) Arsenic
n-Butyl Alcohol ' Carbon Disulfide	D018	Benzene Cadmium
Carbon Tetrachloride Chlorobenzene	D019 D021 D022	Carbon tetrachloride Chlorobenzene
Cresol (m- and p- isomers) Cresol (o- isomer)	D022 D007 D023	Chloroform Chromium
Cyclohexanone 1,2-Dichlorobenzene	D024 D025	o-Cresol m-Cresol p-Cresol
Ethyl Acetate Ethyl Benzene	D026	Cresol I,4-Dichlorobenzene
Ethyl Ether Isobutanol Methanol	D028 D029	1,2-Dichlorocthane 1,1-Dichlorocthylene
Methylene Chloride Methyl Ethyl Ketone	D030 D032	2,4-Dinitrotoluene Hexachlorobenzene
Methyl Isobutyl Ketone Nitrobenzene	D033 D034	Hexachlorobutadiene Hexachloroethane
Pyridine Tetrachloroethylene	D008	Lead Methyl ethyl ketone
Toluene 1,1,1-Trichloroethane	D036 D037	Nitrobenzene Pentrachlorophenol
	D038 D011	Pyridine Silver
TrichloroethyleneTrichlorofluoromethane	D039 D040 D041	Tetrachloroethylene Trichloroethylene
Xylene	D042 D043	2,4.5-Trichlorophenol 2,4,6-Trichlorophenol Vinyl chloride
domination provided here is true and accurate to the best of my knowledge. The inform (the waste meets the treatment standards)1 contify under peakly of law that } In knowledge of the waste to support this contification that the waste complies with the	ution here in submitted solutions	y to comply with the I Dis (and in An COR 201) (C)
h knowledge of the weate to support his certification that the waste complies with the set CFR 262.12 or RCRA section 3004(d). I believe that the information I submitted ting a false certification, including the possibility of a fine and imprimentate.	standards opecial in 40 CF is true, societies and complete	R. Part 268 Subpart D and all applicable prohibitions set tet. I am aware that there are significant permittee for
sture have hwang Til	· Techni	cal Specialist
( Name Grace Hwang Da	1e5-6	-96

# AMERICAN RECLAMATION CORP.

#### 100 West Main Street NORTHBOROUGH, MA 01532

Northborough (508) 393-6333 FAX (508) 393-4511 Charlton (508) 248-3777 FAX (508) 248-7701

CUSTOMER'S ORDER NO.	PHONE	DATE	DATE					
IAME		(- \						
DORESS	Triumicint.	C Faille sy						
	Dari #12		······································					
	C.O.D. CHARGE ON ACCT. MOSE	: -1						
SOLD BY CASH	C.O.D. CHARGE ON ACCT. MDSE	LRETD. PAID OUT						
QTY.	DESCRIPTION	PRICE	AMOUNT					
1 Lerei	ef rubile	,						
	2494	<u> </u>						
			<u> </u>					
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			<b>,</b>					
	1:17 05/10/96	83200 LB (	·					
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		53320 LB-	<u> </u>					
		49880 LB	N					
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,		TAX	<u> </u>					
RECEIVED BY	7	TOTAL	 					

All claims and returned goods MUST be accompanied by this bill. Thank You

# TRIUMVIRATE ENVIRONMENTAL INC.

P.O. BOX 136, BOSTON, MA 02143

			7 F.O. DOX.10	-		<del></del>					
STRA RIGI	IGHT BIL NAL - NOT	L OF LAD	ING BLE					Shipper's	No	T5782A	B.O.L
	•				_			Carrier's	No		`
CARRIER:	DART TRUCKIN	G CO, INC.				CAC			te $\frac{5}{7}$	10/96	
Consignee	130 Sturbrid Charlton MA	lamation Cor ge Road (Rou 01508	poration te 20) Zip		FROI Shipp Stree Origin	er t	528 BOS	ON COMPA STON POS MA 017	T ROAD 76	Zip-	
Route:								Vehi Num			
No. Shipping Units		Packages, Description of A MATERIALS - PROPER SI			ZARD LASS	I.D. Number	PACKING GROUP	WEIGHT (subject to correction)	RATE	LABELS R (or exer	
	Non RCRA, N Rubble	on DOT Regul	.ated								
									-		
Remit C.O Address: City:	.D. to:	State:	Zip:			COD	Amt:	\$	[	C.O.D. F Prepaid C Collect C	]
NOTE - Where t	declared value of the prope	value, shippers are requi	red to state specifically alue of the property	" wit	Bubject to Section the consigner, the or The carner shall not	make delivery of the sname	ers without payment of freight	ered to the consignee with t and all other levelal charges.	nout recourse on	FREIGHT C	COLLECT
PECEIVED, signary and services of the control of, said serms.  Shipper hereb	is hereby specifically stated by the shipper to be not exceeding \$ Per Suprement Concepts  Per Supreme										
	the above-named materials are in proper condition for transporta reation.	properly classified, described, descr	ckaged, marked PLAC	ARDS JIRED			PL/	ACARDS •		- FURNISHED BY C	
CHIDDED:	Per					ARRIER:		ART TRUC	KING (	O INC	
SHIPPER: PER:	RAYTHEON ( GRACE HWAN			_		R:				,	
DATE:	5/10/96				<u> </u>	TE	5/18/9	6			
		y 966 <b>-</b> 9282			Monitore	ed at all time il to transporta	s the Hazard tion (172.604)	ous Material i	s in transp	ortation inclu	ing storage
ILLUTTONE											



BRIDGEPORT UNITED RECYCLING, INC. 50 Cross Street Bridgeport, CT 06610

UOR USE ONLY		
New	Update	
Profile #		
Sample Arrival Da	ite	

WASTE STRE	AM PROF	<b>ILE SHEET</b>							Sample	Arrival Date
GENERATOR						BROKE	R/SALESPE	RSON		
	AYTHEON					Name	TRIVIAVI	ATT FAILE	HMENTH!	
Address 4/	30 Bosn	W POST	ROAD			Address	P.O. BO	12	MUEPINE"	
h	MYLANT	MA O	1778			7.557000	P 100	X 136	42.417	
Mailing Name	528 Bas	STON POST	Pare		<del></del>	Contact	BOSTON	MA TONA	02143	1.
Address	SUMALINIA	IMA C	1231			Contact	DONAD	PILATO	Phone #	617) 628-8098
	- wy	, , , , , , ,	77.16						•	
Technical Conta	ect 77/	100 H	1016			TRANSP				
Phone #		CE HW	7749			Name	ZECCO			
Shipping Contact		14/0-0	(14)			Address				
Phone #	ct SAME		<del></del>							
EPA ID #	2000	200 1 0 =				Contact			Phone #	
EPAID#	TIMO	190 685	554	7-		EPA ID#				
WASTE DESCR	RIPTION									
Chemical & Phy	-	pН	Odor M	TILD Flack	Point >14	/O % Oil	100 %	D O	Please submi	t a one (1) quart representative sample of
Liquid	<b>U</b> Multilayere		-10		Value (BTU/lb)			Bottom Sedime	the waste stre	eam. Describe the sampling method below.
U Semi-Liquid U Solids		U 4-6 U 1		VFIC HEAL	/alue (BTU/ID)			pecific Gravity	<u>18</u>	
	ntion - Descr	ibe the process	generating week	GAR PINI	<u>C</u>	% Water	0	<del></del>		ì
			s generating waste	7 1			Is and their M	laterial Safety D	Data Sheets.	
CHEMICAL CON	<b>NSTITUENTS</b>								·	
Petroleum Phase	Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase	Suspected Levels	Actual Levels (UOR use only)		Suspected Levels	Actual Levels (UOR use only)	This waste is:  © RCRA Listed	RCRA Number(s)
PCBs	NIS	NIS	Copper (Cu)	TNIS	N/S	Selenium (Se)	NIS	NIS	State Regulated	
Halogens		1	Cadmium (Cd)	1 1	1515	Mercury(Hg)	NI	N/3	Non-Regulated	
Solvents			Chromium (Cr)	1	<del>   </del>	Cuspide (CMs)	<del>                                     </del>	<del>                                     </del>	U Virgin Material	State Number MA47/CKA7

CHEMICAL CON	ISTITUENTS									
Petroleum Phase	Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase	Suspected Levels	Actual Levels (UOR use only)		Suspected Levels	Actual Levels (UOR use only)	This waste is:  © RCRA Listed	RCRA Number(s)
PCBs	NIS	NIS	Copper (Cu)	NIS	N/S	Selenium (Se)	NIS	NIS	State Regulated	
Halogens		1	Cadmium (Cd)	ī	1.	Mercury(Hg)	1912	N/3	▼ Non-Regulated	<u> </u>
Solvents			Chromium (Cr)		<i> </i>	Cyanide (CN-)		<del>                                     </del>	Virgin Material	State Number MA97 CROS
Arsenic (As)			Lead (Pb)			Iron (Fe)	<del>  </del>	<del>                                     </del>	Notes & special har	dling information
Cadmium (Cd)			Nickel (Ni)			pH		<del>                                     </del>		
Chromium (Cr)			Silver (Ag)		1 1	Phenois		<del>                                     </del>		•
Lead (Pb)	•	1/	Zinc (Zn)	1	1	THOROIS		<del>  . / </del>		
			DOT Hazard Cla DOT Shipping N Additional Desc	lame Com		LIQUID, N	10013, 1. 1993, 1	0-S. 14/11	UN/NA Number Amount of Waste / Frequency of Shipm	
The undersigned certifies the MI potential hazards have be at any time, the information esponsibility for any misreplescribed above does not consider the MI potential of the MI potential of the MI potential of the MI pot	n above should cha	ange or prove different	nt, shipments will cease un	til further approva	companying sample has been approved a	is representative of the streatable by United Oil	Recovery, Inc.	i	FACILITY USE ONL Rec'd on Sample Container Approved By Comments	

UNITED OIL RECOVERY, INC. 36 Gracey Ave. eriden, CT 06451- (203) 238-6751 BRIDGEPORT UNITED RECYCLING, INC. 50 Cross Street
Bridgeport, CT 066

UOR USE ONLY		
New	Upda	
Profile #		
Sample Arrival Da	ate	$\exists$

	AM PROFI	LE SHEET							<u> </u>	ie Arrivai Date	
GENERATOR						BROKER	R / SALESPE	PSON			
Site Name	HYTTIEDL	Comp	HV4					TE ENV.	INC. Ref#		
Address 2/	30 BOS	TON POS	KOAD			Address			1190. 1101#		_
	AYLAND	MAO	1778					WH OC	71112		
	SAME	4				Contact	DONA	71 3	Phone #	11 121 1 22 2	3,47
Address 5	ZB BO	STON POS	TRAD		<del></del>		UNIL	STITAL	Filone #	(617)628-3	2018
Sa	SBURU		01776			TRANSP	ORTER		l.		
Technical Conta	act GRAG	E HULA	16				TEI				
Phone #	(5738)	4/40-2=	729			Address	101			· · · · · · · · · · · · · · · · · · ·	
Shipping Contact			<i></i>			Address					
Phone #						Contact			Dh #		
EPAID#	MIAD9	906855	54	· ·		EPA ID #	MANG	85286	Phone #		
WASTE DESCR							111101	OS COG.	108		
Chemical & Ph	ysical State	рН	Odor )	1.3	7140	1700	مسيرين		Please sub	mit a one (1) quart representa	· · · · · · · · · · · · · · · · · · ·
<b>U</b> Liquid	<b>U</b> Multilayere	d <b>U</b> 2-4 U 8	10		Point 7140			Bottom Sedim	the waste s	tream. Describe the sampling	auve sample of method below.
Semi-Liquid		U 4-6 U 1		Heat V	/alue (BTU/lb)			pecific Gravity			
Solids Process Descri	Single Phas	se <b>0</b> x6-8 U >	12 Color			% Water	·				
	puon - Desch	ne trie process	generating waste	stream. Plea	se include a list	t of virgin materia	is and their M	laterial Safety (	Data Sheets.		
Vietni	#27	-1000 Oa	- JUNTE	(In) FA	MINATE	SUF VI	115	19	AM JAXN	LEANING-	
VINGIFI	0.	VEL WIT	Source	002777		110, 100	9 . 4	e Eui ja			,
		VEL ON						een ja			
CHEMICAL COMPetroleum Phase		Actual Levels (UOR use only)	Aqueous Phase	Suspected Levels	Actual Levels		Suspected Levels	Actual Levels	This waste is:	RCRA Number(s)	NONIC
CHEMICAL CO	NSTITUENTS Suspected	Actual Levels (UOR use only)	Aqueous Phase	Suspected Levels	Actual Levels (UOR use only)		Suspected Levels	Actual Levels (UOR use only)	This waste is:	RCRA Number(s)	NONE
CHEMICAL COI Petroleum Phase	NSTITUENTS Suspected Levels	Actual Levels	Aqueous Phase Copper (Cu)	Suspected	Actual Levels	Selenium (Se)	Suspected	Actual Levels	This waste is:  U RCRA Listed State Regulate	RCRA Number(s)	NONE
CHEMICAL COI Petroleum Phase PCBs	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd)	Suspected Levels	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg)	Suspected Levels	Actual Levels (UOR use only)	This waste is:  U RCRA Listed U State Regulate U Non-Regulate U Virgin Materia	RCRA Number(s)	
CHEMICAL COR Petroleum Phase PCBs Halogens	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr)	Suspected Levels	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> )	Suspected Levels	Actual Levels (UOR use only)	This waste is:  U RCRA Listed U State Regulate U Non-Regulate U Virgin Materia	RCRA Number(s)	NONE OUMAG
CHEMICAL COR Petroleum Phase PCBs Halogens Solvents	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb)	Suspected Levels	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe)	Suspected Levels	Actual Levels (UOR use only)	This waste is:  U RCRA Listed U State Regulate U Non-Regulate U Virgin Materia	RCRA Number(s)	
Petroleum Phase PCBs Halogens Solvents Arsenic (As)	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni)	Suspected Levels	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe) pH	Suspected Levels	Actual Levels (UOR use only)	This waste is:  U RCRA Listed U State Regulate U Non-Regulate U Virgin Materia	RCRA Number(s)	
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd)	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni) Silver (Ag)	Suspected Levels	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe)	Suspected Levels	Actual Levels (UOR use only)	This waste is:  U RCRA Listed U State Regulate U Non-Regulate U Virgin Materia	RCRA Number(s)	
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb)	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni) Silver (Ag) Zinc (Zn)	Suspected Levels	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe) pH	Suspected Levels	Actual Levels (UOR use only)	This waste is:  U RCRA Listed U State Regulate U Non-Regulate U Virgin Materia	RCRA Number(s)	
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr)	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase  Copper (Cu)  Cadmium (Cd)  Chromium (Cr)  Lead (Pb)  Nickel (Ni)  Silver (Ag)  Zinc (Zn)  SHIPPING INFO	Suspected Levels  A/S  ORMATION	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe) pH Phenols	Suspected Levels  N/5  6-8	Actual Levels (UOR use only)	This waste is:  U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special h	RCRA Number(s)  ed d State Number andling information	0414149
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb)	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni) Silver (Ag) Zinc (Zn) SHIPPING INFO DOT Hazard Cl	Suspected Levels  N/S  ORMATION lass / Packing	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe) pH Phenols	Suspected Levels  N/5  6-8	Actual Levels (UOR use only)	This waste is:  U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special h	RCRA Number(s)  ed d State Number	0414149
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb)	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase  Copper (Cu)  Cadmium (Cd)  Chromium (Cr)  Lead (Pb)  Nickel (Ni)  Silver (Ag)  Zinc (Zn)  SHIPPING INFO	Suspected Levels  N/S  ORMATION lass / Packing	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe) pH	Suspected Levels  N/5  6-8	Actual Levels (UOR use only)	This waste is:  U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special h	RCRA Number(s)  ed d State Number andling information	0414149
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb)	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase  Copper (Cu)  Cadmium (Cd)  Chromium (Cr)  Lead (Pb)  Nickel (Ni)  Silver (Ag)  Zinc (Zn)  SHIPPING INFO  DOT Hazard Cl  DOT Shipping I	Suspected Levels  N/S  ORMATION lass / Packing	Actual Levels (UOR use only)  N/S  Group Onle	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe) pH Phenols	Suspected Levels  N/5  6-8	Actual Levels (UOR use only)	This waste is: U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special in	RCRA Number(s)  State Number (and ing information	COLIMAG
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb)	NSTITUENTS Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni) Silver (Ag) Zinc (Zn) SHIPPING INFO DOT Hazard Cl	Suspected Levels  N/S  ORMATION lass / Packing	Actual Levels (UOR use only)	Selenium (Se) Mercury(Hg) Cyanide (CN <sup>-</sup> ) Iron (Fe) pH Phenols	Suspected Levels  N/5  6-8	Actual Levels (UOR use only)	This waste is: U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special in	RCRA Number(s)  State Number  andling information  Non-Regulated	0414149
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb) Please list Speci	Suspected Levels  Fig. Solvents:	Actual Levels (UOR use only)	Aqueous Phase  Copper (Cu)  Cadmium (Cd)  Chromium (Cr)  Lead (Pb)  Nickel (Ni)  Silver (Ag)  Zinc (Zn)  SHIPPING INFO  DOT Hazard Cl  DOT Shipping I	Suspected Levels  N/S  ORMATION lass / Packing Name	Actual Levels (UOR use only)  W/S  Group Onles	Selenium (Se) Mercury(Hg) Cyanide (CN-) Iron (Fe) pH Phenols	Suspected Levels  N/S  6-8  Levels  N/S  N/S  N/S  N/S  N/S  N/S  N/S  N/	Actual Levels (UOR use only)	This waste is: U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special h	RCRA Number(s)  State Number (s)  andling information  Non-Regulated  / Shipment (gals.)	COLIMAG
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb) Please list Speci	Suspected Levels  What all above inform been noted in the been not	Actual Levels (UOR use only)	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni) Silver (Ag) Zinc (Zn) SHIPPING INFO DOT Hazard Cl DOT Shipping I	Suspected Levels  N/S  ORMATION lass / Packing Name  cription	Actual Levels (UOR use only)  W/S  Group Onle  Group Onle  Group Onle	Selenium (Se) Mercury(Hg) Cyanide (CN-) Iron (Fe) pH Phenois	Suspected Levels  N/S  6-8  Levels  N/S  Comparison of the compari	Actual Levels (UOR use only)	This waste is: U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special in  UN/NA Number Amount of Waste Frequency of Shi	RCRA Number(s)  State Number (s)  andling information  Non-Regulated  / Shipment (gals.)	COLIMAG
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb) Please list Speci	Suspected Levels  U  fic Solvents:	ation is true and accandling section. Shipange or prove that the notation is true and the notation is true and accandling section.	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni) Silver (Ag) Zinc (Zn) SHIPPING INF DOT Hazard Cl DOT Shipping I Additional Descurate to the best of his/her ments may not begin until	Suspected Levels  N/S  ORMATION  ass / Packing  Name  cription  r knowledge. The a this waste stream ntil further approve	Group OTHE	Selenium (Se) Mercury(Hg) Cyanide (CN-) Iron (Fe) pH Phenols  Charage And	Suspected Levels  N/S  6-8  VICTII	Actual Levels (UOR use only)	This waste is: U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special in UN/NA Number Amount of Waste Frequency of Shi	RCRA Number(s)  ed  State Number (s)  andling information  Non-Regulated  / Shipment (gals.)  pment OF/CE  NLY  Rec'd By	04MA9
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb) Please list Speci	Suspected Levels  U  fic Solvents:	ation is true and accandling section. Shipange or prove that the notation is true and the notation is true and accandling section.	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni) Silver (Ag) Zinc (Zn) SHIPPING INFO DOT Hazard Cl DOT Shipping I	Suspected Levels  N/S  ORMATION  ass / Packing  Name  cription  r knowledge. The a this waste stream ntil further approve	Group OTHE	Selenium (Se) Mercury(Hg) Cyanide (CN-) Iron (Fe) pH Phenols	Suspected Levels  N/S  6-8  VICTII	Actual Levels (UOR use only)	This waste is: U RCRA Listed State Regulate U Non-Regulate U Virgin Materia Notes & special in  UN/NA Number Amount of Waste Frequency of Shi FACILITY USE O Rec'd on	RCRA Number(s)  ed  State Number (s)  andling information  Non-Regulated  / Shipment (gals.)  pment OF/CE  NLY  Rec'd By	04MA9
Petroleum Phase PCBs Halogens Solvents Arsenic (As) Cadmium (Cd) Chromium (Cr) Lead (Pb) Please list Speci	Suspected Levels  U  fic Solvents:	ation is true and accandling section. Shipange or prove that the notation is true and the notation is true and accandling section.	Aqueous Phase Copper (Cu) Cadmium (Cd) Chromium (Cr) Lead (Pb) Nickel (Ni) Silver (Ag) Zinc (Zn) SHIPPING INF DOT Hazard Cl DOT Shipping I Additional Descurate to the best of his/her ments may not begin until	Suspected Levels  N/S  ORMATION  ass / Packing  Name  cription  r knowledge. The a this waste stream ntil further approve	Group OTHE	Selenium (Se) Mercury(Hg) Cyanide (CN-) Iron (Fe) pH Phenols	Suspected Levels  N/S  6-8  VICTII	Actual Levels (UOR use only)	This waste is:  O RCRA Listed State Regulate O Non-Regulate O Virgin Materia Notes & special in  DOT Regulate UN/NA Number Amount of Waste Frequency of Shi FACILITY USE O Rec'd on Sample Container	RCRA Number(s)  ed  State Number (s)  andling information  Non-Regulated  / Shipment (gals.)  pment OF/CE  NLY  Rec'd By	COLIMAG

Main Office 877-2460 WELLESLEY

235-1828

# New England

# SAND and GRAVEL COMPANY, INC. BIRCH ROAD AND DANFORTH ST., P.O. BOX 3248, FRAMINGHAM, MASS. 01701

		16
1 1	/	Date 3/10/96 19
Sold to / ri	hoira	1 Env.
Street MR +	20	Ragaffier
Town Nay	du d	(Bright from
Delivered 🗹		At Pit
BRICK and PLASTER SAND		
CONCRETE SAND		
DRY SCREENED SAND	<u>.</u>	
GRAVEL		<u>.</u>
ROOFING GRAVEL		
CRUSHED BANK RUN		· · ·
BANK RUN		YARDS
LOAM		YARDS
SUB-SOIL		YARDS
FILLING		YARDS
EQUIPMENT RENTAL HRS.		
TRUCK NUMBER	GROSS	
DRIVER SALVE	TARE	
WEIGHER	NET	
Received by		
THIS COMPANY WILL NOT BE RESPONSIBLE F	OR DAMAGE CAUSED	BY TRUCKS DELIVERING MATERIAL BEYOND STREET PAVEMENT.
		SENT OF THE BUYER SHALL BE CONSIDERED FULL PROOF OF DELIVERY

No. 88956 CREATIVE FORM GRAPHICS 508-831-3556 CUSTOMER COPY

# RAMPCO CONSTRUCTION COMPANY, INC.

SCHOFIELD AVE. DUDLEY, MA 01571

(508) 943-8818 FAX (508) 943-9214 Νō

1076

		DATE	5/14	<u>)                                    </u>	1996
<u>M</u>	Triumvirate Inui	DRY	nent	MC	
ADDRESS	KAUTHOON Co	ap			
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In cons	ideration of your making delivery off the onsible for all damage done to sidewalks,	highwa	y, the sign	ned agrees	to

**TERMS CASH** 

# RAMPCO CONSTRUCTION COMPANY, INC.

SCHOFIELD AVE. DUDLEY, MA 01571

(508) 943-8818 FAX (508) 943-9214 Νō

1008

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in cons	ilderation of your making delivery off the his onsible for all damage done to sidewalks, dri	ghway, the sig lveways, ground	ned agrees to is or otherwise.
	12111		<del></del>

# RAMPCO CONSTRUCTION COMPANY, INC.

SCHOFIELD AVE. DUDLEY, MA 01571

(508) 943-8818 FAX (508) 943-9214 Νō

1007

T	Francis ALO	5/6	
DDRESS	Paytheon- Wayland	11/1	145
DRIVER			
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Khrs	BAKKHEE WENL		
- 4/3/-	<i>[17]</i>		
	TAX		
	TOTAL		
in cons	ideration of your making delivery off the highwonsible for all damage done to sidewalks, drivew	y, the sig	ned agrees to
be resp	onsible for all damage done to sidewalks, drivew	sys, ground	

#### ALPHA ANALYTICAL LABORATORIES

# Eight Walkup Drive Westborough, Massachusetts 01581-1019 (508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

#### CERTIFICATE OF ANALYSIS

Client: Triumvirate Environmental

Laboratory Job Number: L9602852

Address: 63 Inner Belt Road

Invoice Number: 82971

Somerville, MA 02143

Date Received: 07-MAY-96

Attn:

Rob Lamonica

Date Reported: 08-MAY-96

Project Number: WAY-09

Delivery Method: Alpha

Site: Rayth

Raytheon

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9602852-01	#1 NORTH WALL	Wayland, MA
L9602852-02	#4 WEST WALL	Wayland, MA
L9602852-03	#3 SOUTH WALL	Wayland, MA
L9602852-04	#2 EAST WALL	Wayland, MA
L9602852-05	#6 STOCK PILE B	Wayland, MA
L9602852-06	#7 STOCK PILE T	Wayland, MA
L9602852-07	#5 BOTTOM FLOOR	Wayland, MA

Authorized by:

Scott McLean - Laboratory Director

### MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602852-01

#1 NORTH WALL

Date Collected: 07-MAY-96

Sample Matrix:

Date Received: 07-MAY-96

SOIL

Date Reported: 08-MAY-96

Condition of Sample:

Satisfactory

Field Prep:

None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	88.	8	0.10	3	2540B	07-May	sī
Hydrocarbon Scan GC 8100 M	odified			1	8100M	07-May 08-May	DE
Mineral Spirits	ND	mg/kg	100				
Gasoline	ND	mg/kg	100				
Fuel Oil #2/Diesel	ND	mg/kg	100				
Fuel Oil #4	ND	mg/kg	100				
Fuel Oil #6	ND	mg/kg	100			-	
Motor Oil	ND	mg/kg	100				
Kerosene	ND	mg/kg	100				
SURROGATE RECOVERY							
o-Terphenyl	86.0	ક					

#### MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602852-02

Date Collected: 07-MAY-96 #4 WEST WALL Date Received: 07-MAY-96

Sample Matrix:

SOIL

Date Reported: 08-MAY-96

Condition of Sample:

Satisfactory

Field Prep: None

PARAMETER	RESULT	UNITS	RDL	ref	METHOD	DATES PREP ANALYSIS	II
Solids, Total	89.	ક	0.10	3	2540B	07-May	SI
Hydrocarbon Scan GC 8100	Modified			1	8100M	07-Мау 08-Мау	DE
Mineral Spirits	ND	mg/kg	100				
Gasoline	ND	mg/kg	100				
Fuel Oil #2/Diesel	ND	mg/kg	100				
Fuel Oil #4	ND	mg/kg	100				
Fuel Oil #6	ND	mg/kg	100				
Motor Oil	ND	mg/kg	100				
Kerosene	ND	mg/kg	100				
RROGATE RECOVERY							
o-Terphenyl	80.0	ક					

## MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602852-03

#3 SOUTH WALL

Date Collected: 07-MAY-96 Date Received: 07-MAY-96

Sample Matrix:

SOIL

Date Reported: 08-MAY-96

Condition of Sample:

Satisfactory

Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	83.	ક	0.10	3	2540B	07- <b>Ma</b> y	ST
Hydrocarbon Scan GC 8100	Modified			1	8100M	07-May 08-May	DB
Mineral Spirits Gasoline Fuel Oil #2/Diesel Fuel Oil #4 Fuel Oil #6 Motor Oil Kerosene	ND ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	100 100 100 100 100 100				
SURROGATE RECOVERY							
o-Terphenyl	82.0	ક					

# MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602852-04

Date Collected: 07-MAY-96

Sample Matrix:

#2 EAST WALL SOIL

Date Received: 07-MAY-96 Date Reported: 08-MAY-96

Condition of Sample:

Satisfactory

Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Solids, Total	86.	*	0.10	3	2540B	07-May	sī
Hydrocarbon Scan GC 8100	Modified			1	8100M	07-Мау 08-Мау	DB
Mineral Spirits Gasoline Fuel Oil #2/Diesel Fuel Oil #4 Fuel Oil #6 Motor Oil Kerosene	ND ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	100 100 100 100 100 100				
O-Terphenyl	76.0	ક					

Complete list of References and Glossary of Terms found in Addendum I

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602852-05

#6 STOCK PILE B

Satisfactory

Date Collected: 07-MAY-96 Date Received: 07-MAY-96

Sample Matrix:

SOIL

Date Reported: 08-MAY-96

Condition of Sample:

Field Prep:

None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS		ID
Solids, Total	89.	ક	0.10	3	2540B		07-May	ST
Total Metals				1	3005/3050			
Arsenic, Total	8.0	mg/kg	0.20	1	6010	07-Mav	08-May	GF
Barium, Total	27.	mg/kg	2.0	1	6010		08-May	
Cadmium, Total	ND	mg/kg	0.40	1	6010	_	08-May	
Chromium, Total	11.	mg/kg	0.80	1	6010	_	08-May	
Lead, Total	4.9	mg/kg	2.0	1	6010		08-May	
Mercury, Total	ND	mg/kg	0.25	1	7470/7471		08-May	
Selenium, Total	ND	mg/kg	0.40	1	6010	-	08-May	
Silver, Total	ND	mg/kg	0.40	1	6010	-	08-May	

Taboratory Sample Number: L9602852-05

#6 STOCK PILE B

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Volatile Organics by GC/MS			į	1	8260	08-May 08-May	DI
Methylene chloride	ND	ug/kg	25.				
1,1-Dichloroethane	ND	ug/kg	7.5				
Chloroform	ND	ug/kg	7.5				
Carbon tetrachloride	ND	ug/kg	5.0				
1,2-Dichloropropane	ND	ug/kg	18.				
Dibromochloromethane	ND	ug/kg	5.0				
1,1,2-Trichloroethane	ND	ug/kg	7.5				
2-Chloroethylvinyl ether	ND	ug/kg	50.				
Tetrachloroethene	ND	ug/kg	7.5	•			
Chlorobenzene	ND	ug/kg	18.				
rrichlorofluoromethane	ND	ug/kg	25.				
1,2-Dichloroethane	ND	ug/kg	7.5				
1,1,1-Trichloroethane	ND	ug/kg	5.0			,	
Bromodichloromethane	ND	ug/kg	5.0				
trans-1,3-Dichloropropene	ND	ug/kg	7.5				
cis-1,3-Dichloropropene	ND	ug/kg	5.0				
Bromoform	ND	ug/kg	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0				
Benzene	ND	ug/kg	5.0				
<b>Toluene</b>	ND	ug/kg	7.5				
thylbenzene	ND	ug/kg	5.0				
loromethane	ND	ug/kg	50.				
comomethane	ND	ug/kg	10.				
Vinyl chloride	ND	ug/kg	18.				
Chloroethane	ND	ug/kg	10.				
l,1-Dichloroethene	ND	ug/kg	7.5				
rans-1,2-Dichloroethene	ND	ug/kg	7.5				
Trichloroethene	ND	ug/kg	5.0				
l,2-Dichlorobenzene	ND	ug/kg	50.				
1,3-Dichlorobenzene	ND	ug/kg	50.				
1,4-Dichlorobenzene	ND	ug/kg	50.				
Methyl tert butyl ether	ND	ug/kg	50.				
(ylenes	ND	ug/kg	5.0				
cis-1,2-Dichloroethene	ND	ug/kg	5.0				
Dibromomethane	ND	ug/kg	50.				
l,4-Dichlorobutane	ND	ug/kg	50.		•		
Iodomethane	ND	ug/kg	50.				
1,2,3-Trichloropropane	ND	ug/kg	50.				
Styrene	ND	ug/kg	5.0				
Dichlorodifluoromethane	ND	ug/kg	50.				
Acetone	ND	ug/kg	50.				
Carbon Disulfide	ND	ug/kg	50.				
2-Butanone	ND	ug/kg	1500				
Vinyl Acetate	ND	ug/kg	50.				
-Methyl-2-pentanone	ND	ug/kg	50.				
2-Hexanone	ND	ug/kg ug/kg	50.				
Ethyl methacrylate	ND	ug/kg	50.				
Acrolein	ND	ug/kg	130				

comments: Complete list of References and Glossary of Terms found in Addendum I

Laboratory Sample Number: L9602852-05

#6 STOCK PILE B

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ΤÜ
Volatile Organics by GC/MS co			****				
	oncinaea			1	8260	08-May 08-May	DB
Acrylonitrile	ND	ug/kg	50.				
Bromochloromethane	ND	ug/kg	25.				
2,2-Dichloropropane	ND	ug/kg	25.				
1,2-Dibromoethane	ND	ug/kg	25.				
1,3-Dichloropropane	ND	ug/kg	25.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	25.				
Bromobenzene	ND	ug/kg	25.				
n-Butylbenzene	ND	ug/kg	25.				
sec-Butylbenzene	ND	ug/kg	25.				
tert-Butylbenzene	ND	ug/kg	25.				
o-Chlorotoluene	ND	ug/kg	25.				
p-Chlorotoluene	ND	ug/kg	25.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.				
Hexachlorobutadiene	ND	ug/kg	25.				
Isopropylbenzene	ND	ug/kg	25.				
p-Isopropyltoluene	ND	ug/kg	25.				
Naphthalene	ND	ug/kg	25.				
n-Propylbenzene	ND	ug/kg	25.				
1,2,3-Trichlorobenzene	ND	ug/kg	25.				
1,2,4-Trichlorobenzene	ND	ug/kg	25.				
1,3,5-Trimethylbenzene	ND	ug/kg ug/kg	25. 25.				
1,2,4-Trimethylbenzene	ND	ug/kg ug/kg					
trans-1,4-Dichloro-2-butene	ND		25.				
Ethyl ether	ND	ug/kg ug/kg	25. 130				
SURROGATE RECOVERY							
Toluene-d8	84.0	ફ					
4-Bromofluorobenzene	81.0	*					
Dibromofluoromethane	99.0	ક					
Polychlorinated Biphenyls				1	8080	07-May 08-May	DB
Arochlor 1221	ND	ug/kg	250				
Arochlor 1232	ND	ug/kg	250				
Arochlor 1242/PCB 1016	ND	ug/kg	250				
Arochlor 1248	ND	ug/kg	250				
Arochlor 1254	ND	ug/kg	250				
Arochlor 1260	ND	ug/kg	250				
Arochlor 1262	ND	ug/kg	250				
Arochlor 1268	ND	ug/kg	250				
SURROGATE RECOVERY							
2,4,5,6-Tetrachloro-m-xylene	98.0	ક					
Decachlorobiphenyl	97.0	*					

Comments: Complete list of References and Glossary of Terms found in Addendum I

05089604:04 Page 8

#### ALPHA ANALYTICAL LABORATORIES CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9602852-05

#6 STOCK PILE B

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Hydrocarbon Scan GC 8100	Modified			1	8100M	07-May 08-May	DE
Mineral Spirits Gasoline Fuel Oil #2/Diesel Fuel Oil #4 Fuel Oil #6 Motor Oil Kerosene	ND ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	100 100 100 100 100 100				
SURROGATE RECOVERY							
o-Terphenyl	81.0	ક્ષ					

#### ALPHA ANALYTICAL LABORATORIES CERTIFICATE OF ANALYSIS

# MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602852-06

#7 STOCK PILE T

Date Collected: 07-MAY-96 Date Received: 07-MAY-96

Sample Matrix:

SOIL

Date Reported: 08-MAY-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	84.	8	0.10	3	2540B	07-May	ST
Hydrocarbon Scan GC 8100	Modified			1	8100M	07-May 08-May	DB
Mineral Spirits Gasoline Fuel Oil #2/Diesel Fuel Oil #4 Fuel Oil #6 Motor Oil Kerosene	ND ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	100 100 100 100 100 100				
SURROGATE RECOVERY							
o-Terphenyl	74.0	ક					

# ALPHA ANALYTICAL LABORATORIES CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602852-07

#5 BOTTOM FLOOR

Date Collected: 07-MAY-96

#5 BOTTOM FLO

Date Received: 07-MAY-96
Date Reported: 08-MAY-96

Condition of Sample:

Sample Matrix:

Satisfactory

Field Prep:

None

Number & Type of Containers: 1 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	92.	ቔ	0.10	3	2540B	07-May	ST
Hydrocarbon Scan GC 8100	Modified			1	8100M	07-May 08-May	
Mineral Spirits Gasoline Fuel Oil #2/Diesel Fuel Oil #4 Fuel Oil #6 Motor Oil Kerosene	ND ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	100 100 100 100 100 100				
RROGATE RECOVERY							
o-Terphenyl	123.	ક					

## ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9602852

Parameter	Value 1	Value	2	RPD	Units
Solids, Total	DUPLICAT	E for sa	mple	(s) 01-0	7
	92.	91.		1	8
Total Metals	DUPLICAT	E for sar	mple	(s) 05	
Mercury, Total	ND	ND		NC	mg/kg
Total Metals	DUPLICAT	B for san	mple	(s) 05	
Arsenic, Total Barium, Total Cadmium, Total Chromium, Total Lead, Total Selenium, Total Silver, Total	8.0 27. ND 11. 4.9 ND	7.6 30. ND 12. 5.8 ND		4 10 NC 5 17 NC NC	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg

# ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE BATCH SPIKE ANALYSES

aboratory Job Number: L9602852

Parameter	% Recovery
Total Metals	SPIKE for sample(s) 05
Mercury, Total	120
Total Metals	SPIKE for sample(s) 05
Arsenic, Total	75
Barium, Total	94
Cadmium, Total	100
Chromium, Total	76
Lead, Total	92
On I am dam	0.0
Selenium, Total	88

# THE TABLE AND TO THE BATCH MS/MSD ANALYSIS

with the control of Substitutions of the

2 125 1	. 3 %	MED 3	RPD
volati a Sina. ten tyr cd/ ak	Coist Pacovery	MS/MSD for	sample(s) 05
1,1 - imalor, . 3	2.73	104	1
	7. *I	107	6
The state of the s	7 )3	102	0
falukna	5.9	105	6
Chiored Mizere	9 3	101	3

# ALPHA ANALYTICAL LABORATORIES ADDENDUM I

#### REFERENCES

- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.
- Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF.
   17th Edition. 1989.

#### GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

#### LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

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## Triumvirate Environmental, Inc.

Hazardous Waste Specialists P.O. Box 136, 63 Inner Belt Road, Somerville, MA 02143-0003 617 628-8098 800 966-9282 Fax 617 628-8099

Health & Safety Plan

# TRIUMVIRATE ENVIRONMENTAL, INC.

# SITE SPECIFIC HEALTH AND SAFETY PLAN

# **FOR**

# RAYTHEON ELECTRONIC SYSTEMS Wayland Campus

Job #: T- 5782

Compliance Department 1996

The following list provides names and telephone numbers for emergency contact personnel. In the event of a medical emergency, personnel will take direction from the HSO and notify the appropriate emergency organization. In the event of a fire or spill, the site supervisor will notify the appropriate local, state, and federal agencies. A map showing the route to the nearest hospital with written directions is located in the back of this plan.

<b>Organization</b>	<b>Telephone</b>
Police:	911
Fire:	911
Ambulance:	911
Hospital (Hospital)	203-384-3000
Poison Control Center	800-682-9211
EPA Emergency Response Team	908-321-6660
National Response Center	800-424-8802
Center for Disease Control	404-488-4100
Chemtrec	800-424-9555
Triumvirate Environmental, Inc.	800-966-9282
Raytheon internal numbers:	
Medical Dept.	Ext. 1300
Maintenance Dept.	Ext. 1321
Safety Manager	Ext. 7-431-4325
Security Manager	Ext. 6605
Guards	Ext. 1420
Grace Hwang	(508) 440-2729

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Appendix A Standard Operating Procedures (SOP's)

Appendix B MSDS's

#### 1.0 INTRODUCTION

During development of this plan consideration was given to current safety standards as defined by EPA/OSHA/NIOSH, health effects and standards for known contaminants, and procedures designed to account for the potential for exposure to unknown substances. Specifically, the following reference sources have been consulted:

- OSHA 29 CFR 1910.120 and EPA 40 CFR 311
- NIOSH/OSHA/USCG/EPA Occ. Health and Safety Guidelines
- (ACGIH) Threshold Limit Values

#### 1.1 Key Personnel

The following personnel and organizations are critical to the planned activities at the Site. The organizational structure will be reviewed and updated periodically by the site supervisor.

#### Triumvirate Environmental, Inc.

Ed Goode; Director, Operations Jeff Kent; S & H Specialist Kevin Walker; Project Manager Rob Lamonica; Site Supervisor

#### Raytheon Electronic Systems

Grace Hwang (508) 440-2729

#### 1.2 Organizational Responsibility

Triumvirate Environmental, Inc (TEI) is responsible for the excavation, decontamination, testing of surrounding soil, stockpiling of any contaminated soil, disposal of tank, and site restoration of one 1,000 gallon underground storage tank located at the Raytheon Electronic Systems Plant in Wayland. Further details of site activities are listed in Section 2.0 "Activity Hazard Analysis".

## 2.0 SAFETY AND HEALTH RISK ANALYSIS

#### 2.1 Activity Hazard Analysis

The following list provides physical hazard descriptions for each task to be performed on site.

#### Confined space entry/Decontamination:

#### Hazards

- Back strain from carrying or moving supplies and transfering any residual from the tank into containers.
- Irritation from wearing respirators for long periods of time.
- Physical hazards associated with the use of various hand tools (pinch, scrap, cut, blisters) while deconing the interior of the tanks.
- Personnel slipping, tripping, and falling because of uneven or slippery surfaces.

#### **Hazard Prevention**

- Back stress can be prevented by frequent breaks in routine. Use slow and even movements and proper lifting techniques.
- Frequent breaks will provide relief from any discomfort.
- Work gloves will reduce the possibility of hand injury or blisters.
- The confined space entry attendant will monitor the entrants and entrants will take extreme caution while performing their tasks.

#### Air Monitoring:

- Electrical hazards as a result of power sources to run sampling equipment.
- Hazards associated with ambient environment being sampled.
- Readings indicating nonexplosive atmospheres, low concentrations of toxic substances, or other conditions may increase or decrease suddenly, changing the associated risks.

#### **Hazard Prevention:**

- Grounded plugs will be used when a power source is needed reducing the hazard of electrical shock.
- Generators or air pumps should be used in dry areas, away from possible ignition sources. Do not stand in water or other liquids when handling equipment. Electrical shall conform with OSHA 29 CFR 1910.303(a), 29 CFR 1910.305(a), and (f)(3).
- Extension cords shall be protected from damage and maintained in good condition.
- Equipment should be placed within easy reach using a ladder, elevated platform, or placing the equipment on a stake.
- Personnel should be thoroughly familiar with the use, limitations, and operations of the monitoring equipment.
- Perform continuous monitoring in variable atmospheres.
- Use intrinsically safe instruments until the absence of combustible vapors is anticipated.
   Proper protective clothing such as gloves and goggles should be used when handling corrosive substances. Eyewash and first aid should be available.

#### **Soil Excavations:**

#### Hazards

- Operation of Heavy Equipment
- Exposure to airborne contaminants released during intrusive activities.
- Sides of excavation can cave in.
- Falling during access/egress or while monitoring or dismounting equipment, or stumbling into excavation.
- An overhead hazard can result from material, tools, rock, and/or soil falling into the
  excavation
- Congested work area due to too many workers in a small area.

#### **Hazard Prevention**

- All equipment operators will be fully trained and hold all applicable licences and certificates. One on site person will be assigned to be the "spotter" to aid the operator visually.
- Monitor for airborne contaminants. Use personal protective equipment.

- Provide adequate sloping of sides of the excavation. Regularly inspect trenches for changing conditions.
- Provide ladders to trenches to allow safe access and egress.
- Provide an adequate barrier around open pits. Material from pit must be placed away from edge to prevent cave ins and instability of pit.
- To prevent overexertion, limit manual lifting and emphasize mechanical means where practical.
- Maintain ample work room between workers.

#### 2.2 HEAT STRESS

Heat stress usually is the result of protective clothing decreasing natural body ventilation, although it may occur at any time that work is being performed at elevated temperatures.

<u>Symptoms</u> resulting from heat stress are: Pale, clammy, moist skin; profuse perspiration; and extreme weakness. Body temperature is normal; pulse is weak; the person may have a headache, may vomit, and may be dizzy.

Treatment: Remove person to a cool, air-conditioned place, loosen clothing, place in a head low position, and provide bed rest. Consult a physician, especially in severe cases. Have the patient drink one or two cups of water immediately, and every 20 minutes thereafter. Total water consumption should be about one or two gallons per day.

#### 2.3 COLD STRESS

Exposure to temperatures at or below freezing or to excessive wind velocities at higher temperature can cause a variety of body effects.

There are two (2) primary effects of cold exposure: Frost Bite and Hypothermia.

Frost Bite:

<u>Symptoms</u>: Erythema, blistering, throbbing pain, numbness, swelling and possible gangrene. <u>Treatment</u>: Relocate individual to a warm location and provide slow and steady rewarming.

Hypothermia:

Symptoms: The body begins to shiver in an attempt to generate body heat. Individuals reacts are slow, there is mental confusion, and often a glassy facial stare. Body temperature is low, pulse and respiration are slow. Death can occur within two (2) hours.

Treatment: Relocate individuals to warm location, remove wet or cold clothing and provide rewarming as rapidly as possible. Provide both external (fire, electric blanket, rescuer's body heat) and internal (hot liquids) heat. Placing individual in 105°-110°F tub of warm water is recommended. Seek medical attention.

#### 2.4 CHEMICAL HAZARDS

Chemical	TLV / TWA	Flash Point	Hazards
#2 Fuel oil	None	110-190°F	Combustible

#### **FUEL OIL #2:**

Often referred to as Diesel fuel, it is a member of the petrolem products. Because of its elevated flash point, it will generally not be a fire hazard.

Properties: Flash point-110-190 F; Flammable limits- 1.3 to 6.0 %.

Fire response: CO2, dry chemical, water.

#### 3.0 PERSONNEL TRAINING REQUIREMENTS

Consistent with OSHA's 29 CFR 1910.120 regulation covering Hazardous Waste Operations and Emergency Response, all site personnel are required to be trained in accordance with the standard. At a minimum, all personnel are required to be trained to recognize the hazards on-site, the provisions of this HASP, and the responsible personnel.

## 4.0 PERSONAL PROTECTIVE EQUIPMENT TO BE USED

This section describes the general requirements of the EPA for designated Levels of Protection needed for each task at the site.

#### 4.1 Levels of PPE, B-D

Level B: Supplied-air respirator

Chemical-resistant overalls

Gloves (outer), chemical-resistant

Gloves (inner), chemical-resistant

Boots (outer), chemical-resistant, steel toe and shank

Hard hat

Level C: Air-purifying respirator, full-face, cartridge-equipped

Chemical-resistant coveralls

Gloves (outer), chemical-resistant

Gloves (inner), chemical-resistant

Boots (outer), chemical-resistant, steel toe and shank

Hard hat (if applicable)

#### Level D: Safety glasses

Coveralls (work uniform)

Gloves

Boots/shoes, leather or chemical-resistant, steel toe and shank

Hard hat

#### 5.0 MEDICAL SURVEILLANCE REQUIREMENTS

Medical monitoring programs are designed to track the physical condition of employees on a regular basis as well as survey preemployment or baseline conditions prior to potential exposures. The medical surveillance program is a part of each employers Health and Safety program. This information may be obtained by contacting the Health and Safety Specialist at our corporate offices at (800) 966-9282.

#### 6.0 AIR MONITORING/SAMPLING

This section explains the general concepts of an air monitoring program and specifies the surveillance activities that will take place during project completion at the Site.

#### 6.1 Direct-Reading Monitoring Instruments

#### Instrument: Combustible gas indicator (CGI)

Hazard Monitored: Combustible gases and vapors.

Application: Measures the concentration of a combustible gas or vapor.

<u>Detection Method</u>: A filament, usually made of platinum, is heated by burning the combustible gas of vapor. The increase in heat is measured. Gases and vapors are ionized in a flame. A current is produced in proportion to the number of carbon atoms present.

#### Instrument: Ultraviolet (UV) Photoionization Detector (PID)

Hazard Monitored: Many organic and some inorganic gases and vapors.

<u>Application</u>: Detects total concentration of many organic and some inorganic gases and vapors. Some identification of compounds are possible if more than one probe is measured.

<u>Detection Method</u>: Ionizes molecules using UV radiation; produces a current that is proportional to the number of ions.

<u>General Care/Maintenance</u>: Recharge or replace battery. Regularly clean lamp window. Regularly clean an maintain the instrument and accessories.

#### 6.2 Contaminants to be monitored at the Site

#### Combustible Gas Indicator (CGI)

Frequency: Continuously throughout excavations and tank entry.

Locations: Excavation area / Inside tank

#### Ultraviolet Photoionization Detector (PID)

Frequency: Periodically monitoring

Locations: Downwind in excavation area / In excavation.

#### 7.0 SITE CONTROL MEASURES

The following section defines measures and procedures for maintaining site control. Site control is an essential component in the implementation of the site health and safety program. Standard Operating Procedures (SOP's) regarding tasks being performed at the site are listed in Appendix A at the back of this Plan.

#### 7.1 Buddy System

During all activities when conditions present a risk to personnel, the implementation of a buddy system is mandatory. A buddy system requires at least two people who work as a team; each looking out for each other. Table 8.2 lists those tasks which require a buddy system and any additional site control requirements.

#### 7.2 Site Communications Plan

Successful communications between field teams and contact with personnel in the support zone is essential. The following communications systems will be available during activities at the Site.

- Air Horn
- Hand Signals

Signal	Definition
Hands clutching throat	Out of air/cannot breath
Hands on top of head	Need assistance
Thumbs up	OK/I am all right/I understand
Thumbs down	No/negative
Arms waving upright	Send backup support
Grip partners wrist	Exit area immediately

#### 8.0 DECONTAMINATION PLAN

Section 4.2 lists the tasks and specific levels of protection required for each task. Consistent with the levels of protection required, the decontamination figure provides a step by step representation of the personnel decontamination process for levels B, C and D. These procedures should be modified to suit site conditions and protective ensembles in use. The steps provided below in Section 8.1 and 8.2 will begin after personnel exit the Exclusion Zone and enter the Contamination Zone.

#### 8.1 Level B Deconamination Steps

- Step 1 Segregated equipment drop
- Step 2 Tape removal
- Step 3 Boot cover removal
- Step 4 Outer glove removal
- Step 5 Safety boot removal
- Step 6 Splash suit removal
- Step 7 Face piece removal
- Step 8 Inner glove removal
- Step 9 Field wash

#### 8.2 Level C Decontamination Steps

- Step 1 Segregated equipment drop
- Step 2 Tape removal
- Step 3 Boot cover removal
- Step 4 Outer glove removal
- Step 5 Safety boot removal
- Step 6 Splash suit removal
- Step 7 Face piece removal
- Step 8 Inner glove removal
- Step 9 Field wash

#### 8.3 Level D Decontamination Steps

- Step 1 Remove outer garments (i.e., coveralls)
- Step 2 Remove gloves
- Step 3 Wash hands and face

#### 9.0 EMERGENCY RESPONSE/CONTINGENCY PLAN

This section describes contingencies and emergency planning procedures to be implemented at the Site. This plan is compatible with local, state and federal disaster and emergency management plans as appropriate.

## 9.1 Personnel Roles and Lines of Authority

The Site Supervisor has primary responsibility for responding to and correcting emergency situations. This includes taking appropriate measure to ensure the safety of site personnel and the public. Possible actions may involve evacuation of personnel from the site area, and evacuation of adjacent residents. He/she is additionally responsible for ensuring that corrective measures have been implemented, appropriate authorities notified, and follow-up reports completed. The HSO may be called upon to act on the behalf of the site supervisor, and will direct responses to any medical emergency. The individual contractor organizations are responsible for assisting the project manager in his/her mission within the parameters of their scope of work.

- The Site Supervisor is: Bruce Sullivan
- The HSO is: TBA

#### 9.2 Emergency Recognition/Prevention

Section 2.0 provides a listing of physical hazards onsite. Additional hazards as a direct result of site activities are listed in Table 10.1 as are prevention and control techniques/mechanisms. Personnel will be familiar with techniques of hazard recognition from preassignment training and site specific briefings. The HSO is responsible for ensuring that prevention devices or equipment is available to personnel.

#### 9.3 Evacuation Routes/Procedures

In the event of an emergency which necessitates an evacuation of the site, the following alarm procedures will be implemented:

Evacuation alarm notification should be made using three short blasts on the air horn, supplemented using the hand held radios. All personnel should evacuate upwind of any activities. Insure that a predetermined location is identified off-site in case of an emergency, so that all personnel can be accounted for.

Personnel will be expected to proceed to the closest exit with your buddy, and mobilize to the safe distance area associated with the evacuation route. Personnel will remain at that area until the re-entry alarm is sounded or an authorized individual provides further instructions.

## 9.4 Emergency Contact/Notification System

The following list provides names and telephone numbers for emergency contact personnel. In the event of a medical emergency, personnel will take direction from the HSO and notify the appropriate emergency organization. In the event of a fire or spill, the site supervisor will notify the appropriate local, state, and federal agencies. A map showing the route to the nearest hospital with written directions is located in the back of this plan.

Organization	<u>Telephone</u>
Police: Fire: Ambulance:	911 911 911
Hospital (Hospital)	<del>203-384-3000</del> 509-383-1800
Poison Control Center	800-682-9211
EPA Emergency Response Team	908-321-6660
National Response Center	800-424-8802
Center for Disease Control	404-488-4100
Chemtrec	800-424-9555
Triumvirate Environmental, Inc.	800-966-9282

#### 9.5 Spill or Leaks

In the event of a spill or a leak, site personnel will:

- Inform their supervisor immediately;
- Locate the source of the spillage and stop the flow if it can be done safely; and,
- Begin containment and recovery of the spilled materials.

#### 9.6 Emergency Equipment:

The following list of equipment will be on site throughout the duration of this project:

- First aid kit
- Fire extinguisher
- Mobile telephone
- Spill kits
- Eye wash
- Berm materials