Appendix D LRA Documentation

## Memorandum

ERM-New England, Inc.

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To:

File

From:

John D'Agostino, Duane Wanty; for John McTigue

Date:

7 May 1996

Subject:

Raytheon Wayland, LRA Activities



#### 1.0 Introduction

### 1.1 Background

Raytheon Electronic Systems (RES) contracted ERM-New England, Inc. (ERM) to conduct a Phase I Investigation of RES's Wayland, Massachusetts' Boston Post Road facility. The results of field sampling and analysis of soils conducted during the Phase I investigation revealed concentrations of organic and inorganic contaminants in soils within three drywells and one sump above Reportable Concentrations (RCs) pursuant to 310 CMR 40.1600 of the Massachusetts Contingency Plan (MCP). In order to abate these conditions, Raytheon elected to conduct four Limited Removal Actions (LRAs) pursuant to 310 CMR 40.0318, including excavation, removal and disposal of contaminated materials.

#### 1.2 Purpose & Scope

The purpose of this memorandum is to summarize and document the completion of the four LRAs and the current site status. The LRAs were conducted to remove contaminated soils and associated materials containing Oil and/or Hazardous Materials (OHM) in excess of RCs. ERM provided technical assistance including oversight, sampling and analysis of soils, and Licensed Site Professional (LSP) services. RES contracted Laidlaw Environmental Services (LES) to perform excavation, removal, transportation and disposal services. Because ERM was not involved in all aspects of the LRAs, this summary is limited to ERM personnel's personal observations and compilation of information collected from third party sources (i.e., RES and LES personnel).

#### 2.0 Methodology

The parties involved in the four LRAs varied as follows:

• LES was the contractor for the removal and disposal of soils from dry well DW-06 and RES conducted the construction oversight. ERM later assisted in the testing of soils removed as part of this LRA.

- LES was the contractor for the removal and disposal of soils from dry wells DW-01 and DW-05 and the Boiler Room sump. ERM conducted the construction oversight.
- RES Personnel capped pipes leading to former drywells.

Field screening methods were used as noted below in Section 3.0. In addition, field samples were analyzed at the laboratory using a combination (as detailed in Section 3.0) of the following methods:

- Volatile Organic Compounds (VOCs) by EPA Method 8260
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270
- Poly-Chlorinated Biphenyls (PCBs) by EPA Method 8080
- Organochlorine Pesticides by EPA Method 8080
- Total Petroleum Hydrocarbons (TPH) by EPA Method 8100
- RCRA 8 Total Metals
- TCLP Metals (only where specified below)

#### 3.0 Results and Discussion

#### 3.1 DW-06 (a.k.a. MH-13)

On 30 June 1995, RES became aware of concentrations in soils collected from dry well DW-06 (Sample MH-13) that exceeded RCs for PCBs (12 mg/kg), chromium (7,850 mg/kg), barium (5,310 mg/kg) and lead (666 mg/kg). VOCs and TPH did not exceed RCs. Follow-up investigation activities included a second round of sampling (LES), installation and sampling of a downgradient monitoring well (ERM), and advancement and sampling of a soil boring located adjacent to the dry well (ERM). ERM determined that concentrations did not exceed RCs in the monitoring well (MW-4) or soil boring (SB-5). Analytical results for soil analyses are contained in Table 1.

On 31 October 1995, LES excavated the dry well and surrounding soil. A total of approximately 80 cubic yards of soil were stockpiled onsite in a weather-protected manner. This pile was segregated into two piles: contaminated dry well soils and excess soil. ERM completed testing of the excess soil stockpile and confirmed that no RCs were exceeded. Disposal characterization results are summarized in Table 2. Excavation closure sampling results are contained in Table 1.

On 18 December 1995, RES arranged for the transport of the clean excess soils to AMREC in Charlton via Charlton Welding. Approximately 60 cubic yards of clean soil were shipped. Approximately 20 cubic yards of contaminated soils and debris were shipped by Dart Trucking to CWM Chemical Services in Model City, New York on 18 January 1996.

#### 3.2 DW-01

Soils collected from dry well DW-01 (Sample SB-1) by ERM on 13 October 1995 exceeded RCs for four SVOCs as follows:

- benzo (b) fluoranthene at 2,900 μg/kg
- benzo (a) anthracene at 3,200 μg/kg
- chrysene at 3,100 μg/kg
- benzo (a) pyrene at 2,900 μg/kg

No VOCs, PCBs, or metals exceeded RCs. All analytical results are contained in Table 1.

On 19 December 1995, ERM supervised the backhoe removal of the drywell structure and associated contaminated soils. The excavation was completed to a target depth of 10 feet and measured approximately nine feet by nine feet (36 square feet). Approximately 30 cubic yards (measured in-ground) of soil and debris was removed from the DW-01 excavation. The contaminated soils and drywell structure (bricks and cement blocks) were placed on polyethylene sheeting in two piles adjacent to the drywell excavation.

ERM screened a soil sample taken from the bottom of the excavation for TPH screening using a Hanby TPH test kit. The screening result showed that the soil sample did not contain TPH. Confirmatory samples were taken from the sidewalls and bottom of the excavation by LES employees and sent to Alpha Analytical Laboratories for analysis of SVOCs, PCBs, and Pesticides. All concentrations were non-detectable in these confirmatory samples. When complete, LES secured the excavation with a snowfence that surrounded both stockpiled soils and the excavation. Closure sampling results are contained in Table 1.

On 19 December 1995, ERM collected samples from the two stockpiles for analysis of SVOCs, PCBs, Pesticides, and TCLP Metals. Disposal characterization results are summarized in Table 2. There were no detections of any constituents. On 18 January 1996, RES arranged for the transport of the contaminated soils to American Reclamation Corporation

(AMREC) in Charlton, Massachusetts. Dart Trucking handled the transportation. Bills of Lading are attached.

#### 3.3 DW-05

Soils collected by ERM from dry well DW-05 on 13 and 20 October 1995 exceeded RCs for PCBs (up to 240 mg/kg), benzo(b,k) flouranthene (1,500 µg/kg), cadmium (200 mg/kg), chromium (2,300 mg/kg), lead (690 mg/kg) and silver (170 mg/kg). VOCs, SVOCs and pesticides were all below RCs. All analytical results are contained in Table 1.

LES personnel entered the dry well on 15 and 18 December 1995 using confined space entry safety equipment and removed contaminated soils from the bottom of the dry well using a five-gallon bucket. Approximately one cubic yard of material was removed from the dry well structure in this manner. Soils were placed in a Wrangler box and later transferred to six 55-gallon drums for proper offsite disposal.

A backhoe was then used to remove the dry well structure and associated contaminated soils. The contaminated soils and drywell structure (bricks and concrete blocks) were placed into two 20-cubic yard rolloff containers. The rolloff containers were covered with plastic sheeting attached to each container to protect against weather conditions. The excavation measured six feet by eight feet by nine feet deep, and approximately 16 to 17 cubic yards (measured in-ground) were removed in this manner.

ERM screened soil from the excavation for PCBs using DTECH test kits to determine the limits of excavation. A sample taken from nine feet below ground surface in the center of the excavation contained 0.5 to 1.0 parts per million (ppm) of PCBs. The screening results were determined by John Drobinski of ERM and Grace Hwang of Raytheon to be low enough to terminate the excavation activities. Confirmatory samples were then taken from all sidewalls and the bottom of the excavation by LES employees and sent to Alpha Analytical Laboratories for analysis of PCBs. All concentrations were non-detectable in these confirmatory samples. ERM used PCBs as an indicator of contamination in this dry well because codisposal of PCBs and metals is likely. ERM therefore assumes that the metals were removed to below RCs along with the PCBs. When completed, LES secured the excavation with snow fence that surrounded the entire excavation and one rolloff container. Closure sampling results are contained in Table 1.

On 18 December 1995, LES collected samples from the two rolloffs for analysis of VOCs, SVOCs, PCBs, Pesticides, and Total RCRA 8 Metals.

The only concentration that exceeded RCs was for PCBs (2,500  $\mu g/kg$ ) in one of the rolloffs. There were no detections of VOCs, SVOCs, or pesticides in either rolloff. Disposal characterization results are summarized in Table 2. On 16 January 1996, RES arranged for the transport of the contaminated soils to Model City, New York via Dart Trucking. The non-contaminated soil was sent to AMREC via Charlton Welding. The six drums of PCB contaminated soil collected on 15 December 1995 were sent to Laidlaw Environmental in Reidsville, North Carolina via JB Hunt Special Commodities on 23 January 1996. Manifests and Bills of Lading are attached.

### 3.4 Boiler Room Sump

Soils collected by LES from the Boiler Room sump on 20 October 1995 were analyzed for TPH, RCRA 8 TCLP, and PCBs. Only PCBs were detected at 2,300  $\mu$ g/kg. However, the laboratory believed they swapped samples with a different sample, therefore, resampling was necessary. Soils collected by LES from the Boiler Room sump on 16 November 1995 exceeded RCs for PCBs (3.2 mg/kg). All analytical results are contained in Table 1.

On 18 December 1995, LES employees removed approximately one 55-gallon drum of soil from the sump using a shovel and a five-gallon bucket. The excavation was completed to a target depth of four feet below ground surface. ERM screened a soil sample taken from the center of the completed excavation for PCBs using a DTECH test kit. The screening results showed that the sample contained less than 0.5 ppm of PCBs, and the excavation was terminated. A confirmatory sample was taken from the base of the sump and sent to Alpha Analytical Laboratories for analysis of PCBs. No PCBs were detected in the confirmatory sample. Closure sampling results are contained in Table 1.

On 23 January 1996, RES arranged for the transport of the contaminated soils to Laidlaw Environmental Services in Reidsville, North Carolina. JB Hunt Special Commodities handled the transportation. Manifests are attached as Appendix D.

## 4.0 Summary, Conclusions and Recommendations

## 4.1 Summary and Conclusions

 PCBs, chromium, barium, lead, oil and grease were detected in dry well DW-06 above RCs. Following the LRA, which occurred within 120 days of knowledge of a release, all concentrations were below RCs.

- Four SVOCs were detected in dry well DW-01 above RCs. Following the LRA, which occurred within 120 days of knowledge of a release, all concentrations were below RCs.
- PCBs, benzo (b,k) flouranthene, cadmium, chromium, silver and lead were detected in dry well DW-05 above RCs. Following the LRA, which occurred within 120 days of knowledge of a release, all concentrations were below RCs.
- PCBs were detected in the Boiler Room sump above RCs. Following the LRA, which occurred within 120 days of knowledge of a release, all concentrations were below RCs.

#### 4.2 Recommendations

- ERM recommends that no further action be taken at former dry well DW-06.
- ERM recommends that no further action be taken at former dry well DW-01.
- ERM recommends that no further action be taken at former dry well DW-05.
- ERM recommends that no further action be taken at the Boiler Room sump.

Table 1 Sheet 1 of 2 Summary of Soil Conditions Prior to and After LRAs \* Raytheon, Wayland, Massachusetts

Sample I.D.  Dare Sampled  Relitence Institut	Reportable Concentration	58-1 13-0ci-15 DW-01	47139-1 (Bottom) 19-Dec-95 DW-01 Excavation	47139-02 (Front) 19-Dec-93 DW-01 Exception	47139-03 (Right) 19-Dec-95 DW-01 Excavation	19-Dec-95	47139-05 (Left) 19-Dec-95 DW-01 Excavation	MH-13 14-Jun-95 DW-06	MH-13 16-Jul-95 DW-06	45375-01 30-Oct-96 DW-96	45375-2 38-Oct-96 DW-96	45373-3 36-Oct-46 DW-06	45375-4 30-Oct-96 DW-06	453 73-3 38-Oct-96 DW-86
Before LRA or After LRA?	(S-1)	Before	After	Aller	Affer	Alter	After	Before	JEA.	After	After	After	After	Alter
Organic														
/oletile Organic Compounds (VOCs) (pgAg) PA Method 8260			NA	NA	NA	NA	NA			NA	NA	NA	NA	,NA
Ethylbenzene	80,000													
1,2-Dichlorobenzene	100,000													
Xylenes	500,000	•						•	•					
Methylene chloride	100	108						13B	188					
Tetrachloroethene	500							•	•					
Trichlorebenzene-1,2,4	100,000 NSL							•						
n-Butylbenzene sec-Butylbenzene	NSL NSL	i i												•
isopropyibenzene	1,000,000													
p-IsopropyHoluene	NSL							•	•					
Naphthalene	4,000							•	•					
1,3,5-Trimethylbenzene	10,000	•						•	•					
1,2,4-Trimethylbenzene	1,000,000	•						•	•					
Semi-Velstile Organic Compounds (SVOCs)(315/8g)	1		ND	ND	ND	ND	ND		ND	NA	NA	NA	NA	NA
EPA Method 8270														
Trichlorobenzene-1,2,4	100,000							•						
Naphthalene	1,000 700	2,900	8											
Benzo (b) flouranthene Pyrene	500,000	5,100	8											
Tetrachlorobenzene	1,000,000	.,												
Pentachlorobenzene	50,000	l												
Benzo (a) anthracene	700	3,200												
Chrysene	7,000	3,100						•						
Flouranthene	600,000 700	4,300 2,900	14					•						
Benzo (a) pyrene bis-2-ethylhexyl phthelete	100,000	1004 <b>744</b> .00	8					1,400						
Polychlorinated Biphenyls (PCBs)(pg/kg)	ŀ	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND
EPA Method 8080	1	1								ė.				
Arochlor 1254	2,000								6,700					
Arochior 1260	2,000							12,000	2,000	Ħ				
Organochlorine Preticides (µg/kg)		NA.	ND	ND	ND	ND	ND	NA	NA	NA	NA	ŅĀ	NA	NA
EPA Method 8000		ĺ												
Total Petroleum Hydrocurbons (TPH)(mg/kg) EPA Method 8100	1 .	NA.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Uknown Hydrocarbon	500							300						
Fuel Oli #6	500							•						
Oil and Gross (mg/kg)		NA	NA	NA	NA	NA	NA	NA	1,379	NA	NA	NA	NA	NA
Total Petroleum Hydrocurbons (TPH)(mg/kg)									NA.	NA	NA	NA	NA.	NA
EPA Method 418.1	500							300						
Inorganic														
Total Metals (mg/kg)	i	1	NA	NA	NA	NA	NA							
Arsenic	30	5.96						12	11.1	3.81	4.32	4.57	3.82	4.62
Barium	1,000	62.00						5,310	2,210	23	17	33	19	28
Cadmium	30	2.20						67.5	35.2	73.5	8.3	16.7	32.8	17.0
Chromium	1,000	19.60						7,850 549	25,200 666	73.5 4.05	5.88	4.58	32.8 8.77	8.61
Lead	300 20	4.40						0.81	1.81	4.05	3.50	4.30		8.01
Mercury Selenium	400	:						•						
Silver	100	1						45.1	31.7					

- Notes:

   Analytical result was below the method detection limit

  ND-No compounds or elements detected above method detection limits

  NA = Not Analytical

  jig/kg-milerogram per kilogram (approximately equal to part per billion (ppb))

  mg/kg-milligram per kilogram (approximately equal to part per million (ppm))

  Tabulands caustis include only those compounds which were detected above method detection limits.

  NSL = No Standard Listed

  Shading indicates that the value exceeds the Reportable Concentration

Table 1 Sheet 2 of 2 Summary of Soil Conditions Prior to and After LRAs \* Raytheon, Wayland, Massachusetts

Sample LD. Date Sampled: Reference to the Control of the Con	Reportable Concentration (S-1)	SB-4 S1 29-Oct-45 Inside DW-5 I Before	SB-8 S2 13-Oct-95 Inside DW-S Before	SB-6 S3 13-Oct-95 Inside DW-5 Before	SB-9 S4 13-Oct-95 Inside DW-3 Before	47131-01 (Bottom) 18-Dec-55 DW-5 Excavation After	47131-02 (Front) 18-Dec-95 DW-5 Exzavation After	47131-03 (Right) 18-Dec-95 DW-5 Exzavation After	47131-04 (Back) 18-Dec-95 DW-5 Excavation After	47131-05 (Left) 18-Dec-95 DW-5 Excavation After	2-13-1 16-Nov-95 Boiler Rm Original Before	47101-06 16-Deca95 Boiler Res Super After
Organic			***	414	***							
Volatile Organic Compounds (VOCs) (µg/kg) EPA Method 8260			NA	NA.	NA	NA	NA	NA	NA	NA	NA NA	NA
Ethylbenzene	80,000	_										
1,2-Dichlorobenzene	100,000											
Xylenes	500,000											
Methylene chloride	100											
Tetrachloroethene	500	90										
Trichlorobenzene-1,2,4	100,000	110										
n-Butylbenzene	NSL											
sec-Butylbenzene	NSL	-										
Isopropylbenzene	1,000,000											
p-Isopropyltoluene	NSL	•										
Naphthalene	4,000 10,000											
1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene	1,000,000	1 :										
1/4/4- Finised Mostresise	2,000,000	· -										
Semi-Volatile Organic Compounds (SVOCs)(µg/kg) EPA Method 8270			NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene-1,2,4	100,000	5,700										
Naphthalene	4,000	640										
Benzo (b,k) flouranthene	700	1,500										
Pyrene	500,000	1,200					-					
Tetrachlorobenzene	1,000,000	13,000										
Pentachlorobenzene	50,000 700	17,000										
Benzo (a) anthracene	7,000	:										
Chrysene Flouranthene	600,000	l :										
Benzo (a) pyrene	700	1 :										
Benzo (a) pyrene	700	·										
Pelychlorinated Biphenyls (PCBs)(µg/kg)					ND	ND	ND	ND	ND	ND		ND
EPA Method 8080		i										ND
Arochlor 1260	2,000	240,000	4,000	630							3,200	
											STOREST STREET, STREET	
Organochlorine Pesticides (µg/kg)	•	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA Method 8080	}	l										
Total Petroleum Hydrocarbons (TPH)(mg/kg)	-	NA.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA Method 8100	500	1										
Uknown Hydrocarbon Fuel Oil #6	500	l										
Puel Ost Ro	300											
Inorganic												
Total Aletals (mg/kg)	ĺ	İ				NA.	NA	NA	NA.	NA.	NA	NA
Arsenic	30	29	5.2	4.4	4.8	****	****	****	****	****	1471	***
Barium	1,000	120	9.5	15	12							
Cadmium	30	200	5.2		2.2							
Chromium	1,000	2,300	220	110	110							
Lead	300	690	57	12	6.5							
Mercury	20	1			•							
Mercury Selenium	400	l :		:								
Silver	100	170	3.0	0.83						j		

#### Notes:

Analytical result was below the method detection limit

ND=No compounds or elements detected above method detection limits

NA = Not Analyzed

rya - ivo annyusu

g/kg-mikrogram per kilogram (approximately equal to part per billion (ppb))

mg/kg-milligram per kilogram (approximately equal to part per million (ppm))

\*Tabulated results include only those compounds which were detected above method detection limits.

NSL = No Standard Listed

'es that the value exceeds the Reportable Concentration

Table 2
Sheet 1 of 1
Summary of Disposal Characterization\*
Raytheon, Wayland, Massachusetts

Sample I.D.  Date Sampled  Reference Location	C-1 17-Nov-95 DW-06 Excavation	D-1 17-Nov-95 DW-06 Excavation	47133-06 19-Dec-98 DW-05 Stockpile	47133-07 19-Dec-95 DW-05 Stockpile	47139-6 19-Dec-95 DW-01 Stockpile	47139-7 19-Dec-95 DW-01 Stockpile
Comments						_
Organic					.,,	<b>514</b>
Volatile Organic Compounds (VOCs) (µg/l)			ND	ND	NA	NA
EPA Method 8260						
Dichloroethene-cis-1,2	İ					
Tetrachloroethene						
Trichloroethene						
Trichloroethane-1,1,1						
Dichloroethene-1,1						
Semi-Volatile Organic Compounds (SVOCs)(µg/l)			ND	ND	ND	ND
EPA Method 8270						
EF A METHOR OT O						•
Polychlorinated Biphenyls (PCBs)(µg/kg)	ND	ND				
EPA Method 8080	1					
				460	NID	NID
Arochlor 1260			2,500	460	ND	ND
			ND	ND	ND	ND
Organochlorine Pesticides (µg/l)			ND	IND	ND	ND
EPA Method 8080						
Total Hydrocarbon (mg/kg)						
EPA Method 418.1	930	130				
EFA Wichion 410.1						
Inorganic					ND	ND
Total Metals (mg/kg)	2.9	3.3	6.9	6.0	1,12	
Arsenic	2.9	3.3 19	24	44		
Barium	20	- 17	23	10		
Cadmium	37	37	260	160		
Chromium	4.8	5.2	260	22.0		
Lead	4.0	J.L		<del></del>		
Mercury		-				
Selenium Silver	[	-	· 1.1	0.43		

#### Notes:

ND=No compounds or elements detected above method detection limits

µg/kg=microgram per kilogram (approximately equal to part per billion (ppb))

mg/l=milligram per liter (approximately equal to part per million (ppm))

Refer to laboratory reports for a complete list of compounds analyzed and method or sample specific quantitation limits.

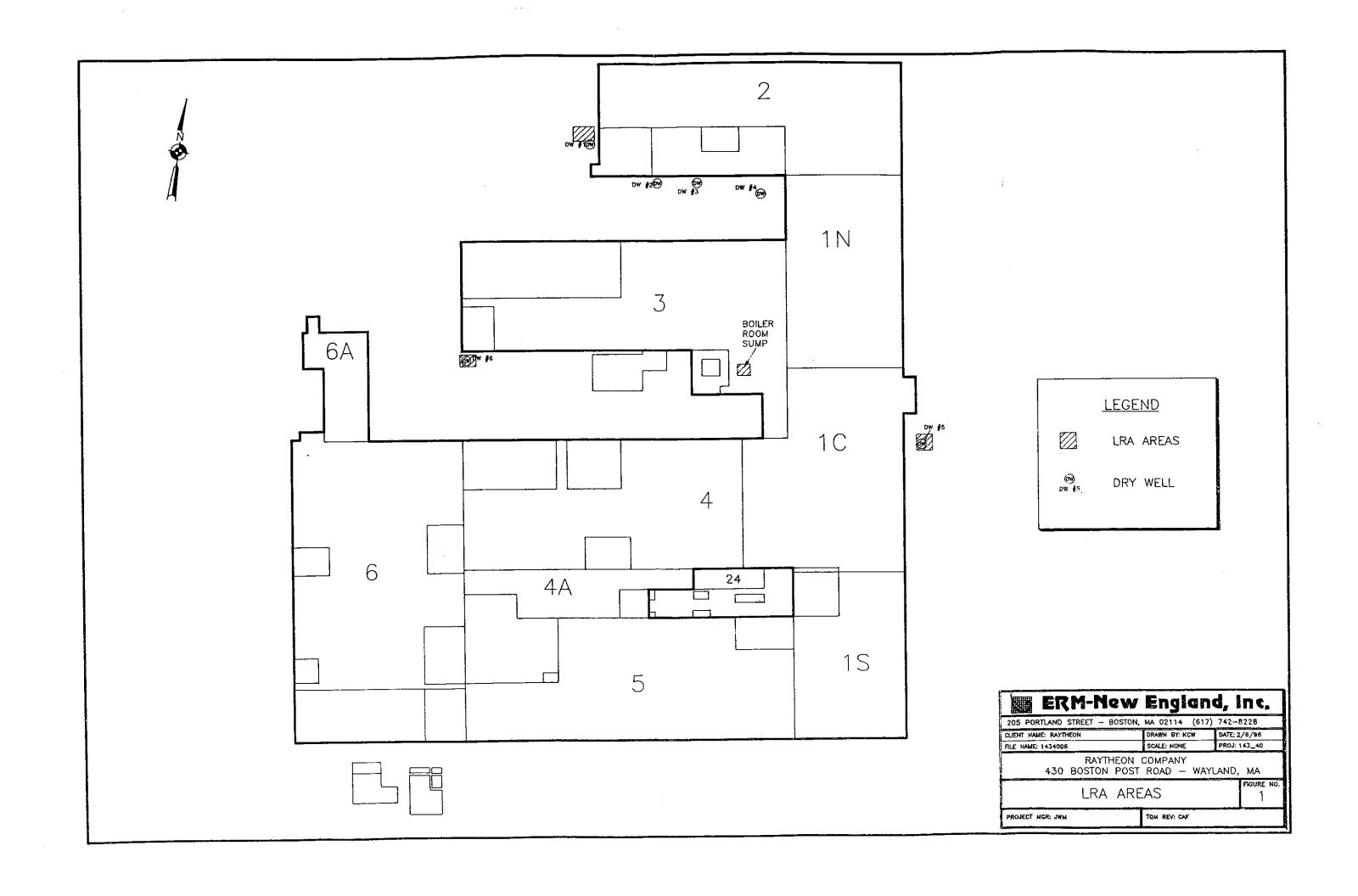
Shading indicates that the value exceeds the Reportable Concentration.

All soil samples were analyzed by Alpha Analytical Labs.

5.17.96 1:25 PM

<sup>-=</sup> Analytical result was below the method detection limit

<sup>\*</sup>Tabulated results include only those compounds which were detected above method detection limits.



# Limited Removal Action

DW-01

Massachusetts Department of Environmental Protection BWSC-012A Bureau of Waste Site Cleanup Release Tracking Number # BILL OF LADING (pursuant to 310 CMR 40.0030) A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED: Release Name (optional): 430 Boston Post Road Location Aid: City/Town: Wayland Zip Code: 01778 Date/Period of Generation:  $\frac{12}{19}$  /  $\frac{95}{95}$  to  $\frac{12}{19}$  /  $\frac{95}{95}$ Additional Release Tracking Numbers Associated with this Bill of Lading: None  $^{\bigstar}$ Note: If this Bill of Lading is the result of a Limited Removal Action (LRA) taken prior to Notification, a Release Tracking Number is not needed. B. PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH BILL OF LADING: Name of Organization: Raytheon Electronic Systems Name of Contact: Grace Hwang Technical Specialist Title: -Street: 528 Boston Post Road Sudbury City/Town: \_\_ Zip Code: 01776 State: -Telephone: 508 - 440 - 2729 Ext. -C. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH BILL OF LADING: (check one/specify) RP Specify (circle one): Owner Operator (Generator ) Transporter Other RP: PRP Specify (circle one): Owner Operator Generator Transporter Other PRP: Fiduciary/Secured Lender Agency/Public Utility on a Right of Way Other Person: If an owner and/or operator is not conducting the response action associated with the Bill of Lading, provide on an attachment the name, contact person, address and telephone number, including any area code and extension, for each, if known. D. TRANSPORTER/COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Charlton Welding Mont Larry McKassick Mark Desantis O)d 016 11 Griffin Street Q120 Webster Road Street: Charleson Oxford (HALL) State: MA U City/Town: . Zip Code: 7037 500 - 248 Ext. Telephone: E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: AMREC Contact Person: Bill McCambridge Title: Operations Manager 130 Route 20 Street: \_\_\_ Zip Code: 01508 Charlton City/Town: \_ State: -Telephone: 508 - 248 - 3777 Ext. ... Landfill/Disposal Type of Facility: X Asphalt Batch/Cold Mix Incinerator (check one) Temporary Storage Asphalt Batch/Hot-Mix Landfill/Daily Cover Landfill/Structural Fill Other: \_ ☐ Thermal Processing MAD 982-201-05

Division of Solid Waste N/A Management Permit #: Division of Hazardous Waste/Class A Permit #: \_

EPA Identification #: \_

Actual/Anticipated Period of Temporary Storage (specify dates if applicable): \_\_\_\_/\_\_\_ to \_\_\_\_/\_\_\_\_ to \_\_\_\_/\_\_\_ N/A Reason for Temporary Storage (if applicable):

Payrend 10/1/93

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Massachusetts Department of Environmental Protection BWSC-012A Bureau of Waste Site Cleanup BILL OF LADING (pursuant to 310 CMR 40.0030) E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION (continued): Temporary Storage Address: City/Town: State: Zip Code: F. DESCRIPTION OF REMEDIATION WASTE: (check all that apply) Contaminated Media (circle all that apply): (Soil ) Groundwater Surface Water Other: Contaminated Debris (circle all that apply): Demolition/Construction Waste Vegetation/Organic Materials Inorganic Absorbant Materials Other: Concrete blocks from dry well removal Non-hazardous Uncontainerized Waste (circle all that apply): Non-aqueous Phase Liquid Other: 30 yd 3 du Non-hazardous Containerized Waste (circle all that apply): Tank Bottoms/Sludges Containers Drums Engineered Impoundments Other: Type of Contamination (circle all that apply): Diesel Fuel #2 Oil #6 Oil (Waste Oil) Kerosene Jet Fuel Estimated Volume of Materials: Cubic Yards: \_\_ 20 Tons: Contaminant Source (check one/specify): Transportation Accident Underground Storage Tank Mother: Inactive Dry Well Response Action Associated with Bill of Lading (circle one): Immediate Response Action Release Abatement Measure Utility-Related Abatement Measure ( Limited Removal Action (LRA) ) Comprehensive Response Action Other (specify): \_ Remediation Waste Characterization Support Documentation attached: ☐ Site History Information ☐ Sampling and Analytical Methods and Procedures ☒ Laboratory Data Field Screening Data If supporting documentation is not appended, provide an attachment stating the date and in connection with what document such information was previously submitted to DEP. G. LICENSED SITE PROFESSIONAL (LSP) OPINION: ERM-New England, Inc. Name of Organization: John Drobinski Principal-in- Charge Title: \_ 8228 Ext. \_ 617 - 742I have personally examined and am familiar with the information contained on and submitted with this form. Based on this information, it is my CMR 40.0030, and that the facility or location can accept remediation wastes with the characterize the Remediation Weath is accordance with 310 CMR 40.0030, and that the facility or location can accept remediation wastes with the characteristics described in the property of the control of t NHOL DROBINSKI <u>16/96</u> Date: \_\_\_\_\_ 219 H. CERTIFICATION OF PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS I certify under penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any

I certify under penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for wilfully submitting false, inaccurate, or incomplete information.

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Signature: Juged Reale)	Date:	1/16/90
Name of Person (print): George Chretien		

Revised 10/1/93

*	····
Massachusetts Department of Environn Bureau of Waste Site Cleanup  BILL OF LADING (pursuant to 310 CMR 40:0030) LOG SHEETOF	nental Protection BWSC-012B  Release Tracking Number:
I. LOAD INFORMATION: LOAD 1: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment:	Date of Receipt: Time of Receipt:
Truck/Tractor-Registration: Trailer Registration (if any):	(circle one) am/pm
LOAD 2: Signature of Transponer Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: (circle one) am/pm	Date of Receipt: Time of Receipt:
Truck/Tractor Registration : Trailer Registration (if any):	(circle one) am/pm Load Size (cu. yds./tons):
LOAD 3: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: (circle one) am/pm	Date of Receipt: Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any):	(circle one) am/pm Load Size (cu. yds./tons):
LOAD 4: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative:
Date of Shipment: Time of Shipment: (circle one) am/pm Truck/Tractor Registration: Trailer Registration (if any):	Date of Receipt: Time of Receipt: / (circle one) am/pm
LOAD 5: Signature of Transporter Representative:	Load Size (cu. yds./tons):  Receiving Facility/Temporary Storage Representative:
Date of Shipment:/	Date of Receipt:  Time of Receipt:  (circle one) am/pm  Load Size (cu. yds./tons):
LOAD 6: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative
Date of Shipment: /	Date of Receipt: /
LOAD 7: Signature of Transporter Representative:	Receiving Facility/Temporary Storage Representative
Date of Shipment: Time of Shipment: (circle one) am/pm	Date of Receipt: Time of Receipt:
Truck/Tractor Registration: Trailer Registration (if any):	(circle one) am/pm

Revised 10/1/93

J. LOG SHEET VOLUME INFORMATION:

This form is printed on recycled paper.

Load Size (cu. yds./tons):

Total Volume This Page (cu.yds./tons):

Total Carried Forward (cu.yds./tons):

Total Carried Forward and This Page(cu.yds./tons):

Page 1 of 1

K. SUMMARY OF	MARY SHEET_	OF	
DATE OF SHIPMENT:	DATE OF RECEIPT:		
		NUMBER OF LOADS SHIPPED:	DAILY VOLUME SHIPPED (CU. YDS TONS)
1-18-18	1-18-96		40.55
	******		
			*
		•	
			4
			** ** *** *** *** *** *** *** *** ***
			************************
			***************************************
**			
			· - ************************************
		•	

Revised 10/1/93

SUMMARY SHEET TOTAL SHIPPED:

BILL OF LADING TOTALSHIPPED (only if different):

This form is printed on recycled paper.

l	<b>/</b>	<u></u>		3
	=	DE	P	

# Massachusette Department of Environmental Protection BWSC-012C Bureau of Waste Site Cleanup

L. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY. STORAGE LOCATION:  Reaching Facility/Femorary Location Representatives (print):  M. ACKNOWLEDGEMENT OF SHIPMENT AND RECEIPT OF REMEDIATION WASTE BY PERSON COMDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LADING:  I certify under penalties of law that I have personally examined and an armillar with the information contained in this automittal, including and sil documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obta the information, the material information contained herein is, to the best of my knowledge and belief, true, eccurate and completes. I am at that there are significant penalties, including, but not limited to, possible lines and imprisonment, for willully submitting takes, inaccurate incomplete information.  Signature:  Date:  Date:  Date:	
Location Representative (print):  Signature:  Date:  Date:  M. ACKNOWLEDGEMENT OF SHIPMENT AND RECEIPT OF REMEDIATION WASTE BY PERSON  CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LADING:  I certify under penalties of law that I have personally examined and an familiar with the information contained in this submittal, including and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaths information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am a that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willuly submitting false, inaccurate incomplete information.  Signature:  Date:	-
certify under pensities of law that I have personally examined and am familiar with the information contained in this submittal, including and all documents accompanying this certification, and that, based on my inquiry of those inclividuals immediately responsible for obtain information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am a that there are significant pensities, including, but not limited to, possible fines and imprisonment, for willully submitting false, insecuration complete information.  Signature:  Date:	<del></del>
that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willully submitting false, insecurat incomplete information.  Signature:  Date:	
Signature:	) arry ining ware ie, or
	_

100 West Main Street Northborough, MA 01532 Tel: (508) 393-6333 Fax (508) 393-4511

WEIGHER \_



TO P.O. Box 653 130 Sturbridge Road Charlton, MA 01508 Tel. (500) 248-3777 Fax (508) 248-7701 15084402051 P.02 35536

DATE			
CUSTOMER RATHESON DUST  CITY WAT I AW STATE THE	10:12	01/18/96	115020 LB 6
TRUCK NO. CW2  NET WEIGHT - TONS 41,59  REMARKS 1 1010 OF 01115011			
DRIVER ON COFF	10:24	01/18/96	115020 LB (K) 5 31840 LB T 83180 LB N

See all enga



## INFORMATION FORM FOR RELEASE SITES

GENERATOR INF	ORMATION:	
Generator Name: Generator Address:	Raythern Electronic Systems	
Release Location:	Wayland MA 01777	
Contact Person:	siml as above	_
Telephone:	Grace Hwang 508 440 2051	_
RELEASE INFORMA	ATION:	_
Site History/Use:	This site was a research and	
Description of Release:	Scaled production of electronic relationstations cal color Constitution of	- '4 ?d
Petroleum Released:	Refer to attached soil boring results.	9
Amount of Soil:  Description of Soil:	- yards.	Client IO#
	- Fine to medium sand AND - 10% concrete blocks	SB-1 on IEA Lab
BILLING INFORMATION	: (for submission of documentation and invoice(s))	Report
Company:	Laidlaw Environmental	R117C-
Address:	Setter Street	
Contact Person:	Dave Danis	
Telephone:	08 683 1002 Fax: 508 6823871	
100 West Main Street	3= 00 = 38   1	

SITE DIAGRAM AND SAMPLING INFORMATION:	
In the space below, please provide an approximate representation of the site and/or the stockpile(s) of soil designated for recycling. Indicate the sampling delineations and methodologies used. Attach additional information if necessary.	nte
BEFORE EXCAVATION AFTER EXCAVATION	
	) ,
B Control B Cover C C Coll only)	
# denotes sampling point for rourcus tative stock pile characterization	
CERTIFICATION STATEMENT:	$\neg$
I certify that the information provided on this sheet and applicable attachments has been carefully reviewed and is representative of the site, and I have applied due diligence in the characterization of the site.	
Signed: July 10ang Date: 12/27 /95	
Name: Grace M Huiang Title: Technical Spaialus	#
Company: Kaythom Flectronic Systems	-
Telephone: 508 440 272 9 Fax: 508 440 2051	-

55-1 = DW

FRU N.E.

Ø003/021



SOIL BORING RESULTS BEFORE EXCAVATION.

## TEA LABORATORY RESULTS

Report Date: 11/07/95

Client: Project:

Raytheon - RESD

WAY ZEA

Received Date:

10/24/55

IEA Job Number: R117C-005

Sample #	Client ID	Parnmeter Beessessessessess	Results	Units	FOL	Date Analyzed
/			-			****
,	25. 1	TOTAL METALS	•			
1	5B-1	Arsenic	5.96	mg/kg(dry)	0.30	79 /00 /00
•	8B-1	Barium	62	mg/kg(dry)	10	11/01/99
1	SB-1	Cadmium	2.2	mg/kg(dry)		10/31/95
	SB-1	Crretium	35.6	mg/kg(dry)	1.0	10/31/95
1	<b>2B-1</b>	Laad \	4.40	mg/kg (GFY)	3.0	10/31/95
2	5B-1	Marcury		mg/kg (dry)	0.50	11/01/95
1	8B-1	Salenium	BOL	mg/kg(dry)	0.10	10/31/95
1	SB-1	Silver	ect	mg/kg(dry)	0.50	11/01/95
~			EQL	ng/kg (dry)	2.0	10/31/95
_		TOTAL METALS				
2 2 2 2 2 2 2	8B-4	Arsenic	9	4		
2	5B-4	Barium	3.56	DS/KS(dry)	0.50	11/01/95
3	58-4	Cadmium	21	mg/kg (dry)	10	10/31/95
2	SB-4	Chromium	BOL	mg/kg (dry)	1.0	10/31/95
Z	33-4	Lead	13.4	ag/kg (dry)	3.0	10/31/95
2 ·	SD-4	Kercury	7.73	mg/kg(dry)	0.50	11/01/95
2.	5B-4	Selanium	BQL	mg/kg (dry)	0.10	10/31/95
2 ·	SB-4		BOL	mg/kg(dry)	0.50	11/01/95
		silver	BQL	mg/kg(dry)	2.0	10/31/95
		TOTAL METALS				00,01,32
3	\$ <b>5-</b> \$	France				
3 3	2B-9		4.73	ng/)cg (qry)	0.50	11/01/95
3	<b>6</b> 38 - 5	Earium Cadmium	22	mg/kg(dry)	10	10/31/95
3	\$8-9		BQL	mg/kg(dry)	1.0	10/31/95
3	5B-9	Chromiun	9.6	mg/kg (dry)	3.0	10/31/95
3	58-9	Lead	4.39	mg/kg (dry)	0.50	11/01/95
3	22-9	Mercury	BQL	mg/kg (dry)	0.20	10/31/95
3	5B~9	Selenium	0.84	mg/kg(dry)	0.50	TO/21/32
_	- D	Silver	BQL	mg/kg (dry)	2.0	11/01/95 10/31/95

COMMENTS:

PQL = Practical Quantitation Limit

BQL w Below Quantitation Limit

Results.wki Rev. 041393

A TORNEY CHEW AND CHOCKER CONTROLLED CONTROL

1/07/85 17:22 2508 867 7871

IEA-MASS

FRE K.E.

@1004/021



## SOIL BORING RESULTS BEFORE EXCAUATION.

#### Analyzis Report: EPA Method 8080A Aroclors

Orac Dear

R117C-005-01

SB-1

Soil

Client: Raytheum - RESD Project: WAY ESA Report Date: 11/06/95 Collected: 10/13/95 Received: 10/24/95 Extracted: 10/27/95 Analyzed: 10/30/95 By: GAM

Dilution Factor: 2.4

Container: Glass

IEA ID:

Sample:

Type:

Rumber	Compound	PQL ug/kg (dry)	Result ug/kg (dry)
1 2 3 4 5 6 7	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	340 240 240 240 240 240	BOL BOL BOL BOL BOL

## Surrogate Standard Recovery:

Tetrachloro-meza-xylene

95 \$

#### Comments:

BQL - Below Quantitation Limit. PQL = Practical Quantitation Limit. Quantitation limit elevated due to extract dilution prior to analysis. Extract diluted due to the presence of non-target compounds.

Doc# GCF20300.MA

11/07/95 17:25 \$508 867 7871

IEA-KASS \_\_ +-- ERM N.E.



SOIL BORING RESULTS BE FORE EXCAJATION

ATORNEY CLEW AND COMMENT PRODUCT AIMED COMPRESS CLAIMED PROPULEGES CLAIMED

# Abalymis Report: \$PA Method 8250A (PAGE 2 OF 2 PAGES)

Client: Projecti

Raytheon - RESD

IEA ID:

R117C-005-01

WAY ESA

Sample:

SB-1

Other TCL Compounds

Mumber	Compound	FOL	Result
32	Acetone	ug/kg (dry)	ug/kg (dry)
33	2-Buranone	. 120	
34	n-Butylbensene	120	eql
35	e-Butylbenzene	- EU	BÓL
36	a sachtostastis	6	egl
37	t-Butylbenzene	6	Bol
38	Carbon disulfide	<del>-</del>	eql.
39	2-Culorosoluene	6	BOL
40	4-Chlorotolume	6	EQL
41	1,2-Dibromoethane	6	BQ1
62	2-Hexanone	<b>.</b>	BOL
43	Wexachlorobutadiene	34	BOL
44	150PY0PY1Denzene	6	BQL
45	D-ISODromy tolung	5	BOL
46	* "Mathyl-2-perrane"	6	BOL
47	"" OPEN	24	BOL
	Maphenalene	E	BQL
48	E-Propylbenzene	60	eol
49	Styrene	6	
50	1.1.1.2-Tetrachlorock	6	BOL
51	-/4/3-Trightorobens	6	BQL
52	f.f.4*TEichlombana-	č	BOL
53	1,2,4-Trimethylbenzene	6	BOL
54	1,3,5-Trimethylbentene	6	BOT
55	Vinyl acetate	Ĕ	BQL
56	Xylenes (Total)	24	bol
		6	eql
Frogate	Standard Receivery:	•	BÓL
	1,3-Dichloroethine-de	•	
	Toluene-ds	0 F A.	_
	- valentardo Brancel	85 t	<del>-</del> .
	Bromofluorobensene	104 \$	
		· 100 ₹	

### COMMENTS:

BQL = Below Quantification Limit.

PQL = Practical Quantitation Limit.

B = Compound in blank.

Doc# MSF11901.MA

/07/95 17:23

Client: .

Project:

Report Date:

5508 86T 7871

IEA-MASS

+-- ERM N.E.

ATORNE CLENT AND ATORNED CHANGED CLAIMED COMPRINE GESCLAIMED Ø 007/021



SOIL BORING RESULTS BEFORE EXCAVATION

Analysis Report: EPA Method 8260A (PAGE 1 OF 2 PAGES)

> IEA ID: R117C-005-01

Raytheon - RESD sample: 6B-1 WAY ESI. soil Type: 11/07/95 10/13/95 Container: Glass

Collected: Received: 10/24/95 10/27/95 Analyzed: GMT By:

Dilucion Factor: 1.2

Priority Pollutant Compounds

		POL	Result
Munper	Compound	nalled (qual)	nd\rd (qrh)
1	Benzene	6	BQL
2	Bromodichloremethane	6	BQL
3	Bromoform	€ .	BÖT
4	Bronomethane	12	BOL
5	Carbon tetrachloride	6	BOL
5	Chlorobenzene	6	BQL
7	Chloroethane	12	BQL
8	2-Chlorosthylvinyl cther	6	BOL
۶	Chloroform	6	. BQL
10	Chloromothene	73	BQL
11	Dibromochloromethane	8	BÖL
12	1,2-Dichlorobenzene	6	BOL
23	1,3-Dichlorobenzene	<b>6</b>	eql
14	1,4-Dichlorobensene	5	BQL
15	1,1-Diahloroethane	. е	BOT
16	1.2-Dichloroerhane	6	BQL
17	1,1-Dichloroethene	€	eol
18	1,2.Dichloroethenes (Total)	€	BQL
15	1,2-Dichleropropana	£	₽QL
20	cis-1,3-Dichleropropeze	6	₽QL
21	rrens-1,3-Dichlerepropent	€	eql
22	Ethylbenzene	6	BQL
23	Methylene chluride	б	loB
24	1,1,2,2-Tetrachloroethane	6	EQL
25	Tetrachlorosthens	6	BOT
36	Tolucne	6	BQL
27	1,1,1-Trichlomosthane	€	BOL
28	1,1,2-Trichlomoethane	6	BOT
39	Trichloroethane	6	BQL
30	Trichlorofluoromethane	6	BCL
31	Vinyl chlorids	12	EQL

Doc# MSF11901.MA

#### 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: Laidlaw Environmental Services

Laboratory Job Number: L9509693

Address: 221 Sutton Street

Invoice Number: 79983

North Andover, MA 01845

Date Received: 19-DEC-95

Attn: Dave Danis

Date Reported: 26-DEC-95

Project Number:

Delivery Method: Alpha

Site: Raytheon

Alpha sample number	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9509693-01	47133-06	Wayland, MA
L9509693-02	47133-07	Wayland, MA
L9509693-03	47139-6 PILE #1	Wayland, MA
L9509693-04	47139-7 PILE #2	Wayland, MA ·

Authorized by: 9

Scott McLean - Laboratory Director

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

Laboratory Sample Number: L9509693-03

47139-6 PILE #1

Date Received: 19-DEC-95

Sample Matrix:

SOIL

Date Reported: 26-DEC-95

Date Collected: 19-DEC-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Plastic

PARAMETER	RESULT	UNITS	RDL	rep	METHOD	DATES PREP ANALYSI	ID
Solids, Total	89.	ş.	0.10	3	2540B	26-De	s S T
нд	7.4	SU		1	9040	19-De	s ST
Hydrocarbons, Total	930	mg/l	0.50	Ţ	418.1	26-Dec 26-De	c ST
Flash Point	>200	F	60	1	1010	21-De	c ST
Cyanide, Reactive	ND	mg/kg	0.25	ı	7.3	21-De	о <u> </u>
lfide, Reactive	ND	mg/kg	0.20	ı	7.3	21-De	c ST
TCLP Extraction			<b>4</b> 8,234,4	<b>490</b>	(1311 // //	22-Dec	
Arsenic, TCLP Barium, TCLP Cadmium, TCLP Chromium, TCLP Lead, TCLP Mercury, TCLP Selenium, TCLP	ND ND ND ND ND ND	mg/l mg/l mg/l mg/l mg/l mg/l	1.0 0.50 0.10 0.20 0.50 0.005	1 1 1 1 1 1 1	6010 6010 6010 6010 6010 7470/7471 6010	26-Dec 26-De 26-Dec 26-De 26-Dec 26-De 26-Dec 26-De 26-Dec 22-De 22-Dec 22-De 26-Dec 26-De 26-Dec 26-De	GF GGF GGF GGDM

Laboratory Sample Number: L9509693-03

47139-6 PILE #1

	RESULT	UNITS	RDL	REP METHOD	
				MATHOD	DATES PREP ANALYSIS
Semi-volatile Organics by c	All and the second second				THE ANALYSIS
	ic/ms		<b>3</b> .000.000	1 8270	200 200 may 1 may 1 m
Acenaphthene	ND	40		in the second of the second second second the second	21-Dec 23-Dec
Benzidine	ND	ug/kg	270		
1,2,4-Trichlorobenzene	ND	ug/kg	2300		
Hexachlorobenzene	ND	ug/kg	350		
Bis (2-chloroethyl) ether	ND	ug/kg	270		
2-Chioronaphthalene		ug/kg	290		
1,2-Dichlorobenzene	ND	ug/kg	290		
1,3-Dichlorobenzene	ND	ug/kg	270		
1,4-Dichlorobenzene	ND	ug/kg	310		
3,3'-Dichlorobenzidine	ND	ug/kg	230		
4-Dinitrotoluene	ND	<b>ug/</b> kg	610		
2,6-Dinitrotoluene	ND	ug/kg	350		
zobenzene	ND	ug/kg	270		
luoranthene	ND	ug/kg	270		
-Chlorophenyl phenyl ether	ND	ug/kg	270		
-Bromophenyl phenyl ether	ND	ug/kg	290		
is (2-chloroisopropyl) ether	ND	ug/kg	270		
is (2-chloroethoxy) methane	ND	ug/kg	190		
exachlorobutadiene	MD	ug/kg	210		
exachlorocyclopentadiene	ND	ug/kg	770		•
sxachloroethane	MD	ug/kg	730	•	
sophorone	ND	ug/kg	480		•
aphthalene	ND	ug/kg	230		
itrobenzene	ND	ug/kg	210		
trosopinhanuta	ND	ug/kg	180		
itrosoDiphenylAmine (NDPA) /DE	A ND	ug/kg	230		
"" " " " " " " " " " " " " " " " " " "	ND	ug/kg	250	-	
s(2-ethylhexyl)phthalate	ND	ug/kg	880		
tyi benzyl phthalate	ND	ug/kg			
-n-butylphthalate	ND	ug/kg	190		
-n-octylphthalate	ND	ug/kg	690		
ethyl phthalate	ND	ug/kg	230		
methyl phthalate	ND	ug/kg	480		
nzo(a) anthracene	ND	ug/kg	480	•	
nzo(a) pyrene	ND		310		
nzo (b) fluoranthene	ND	ug/kg	360		
nzo(k) fluoranthene	ND	ug/kg	350		
rysene	ND	ug/kg ug/kg	350		
enaphthylene	ND		310	- ·	
hracene	ND	ug/kg	2 <b>5</b> 0		
zo (ghi) perylene	ND	ug/kg	230		
orese	ND	ug/kg	480		
nanthrene	ND	ug/kg	270		
enzo(a,h)anthracene	ND	ug/kg	250		
eno(1,2,3-cd)pyrene	ND	ug/kg	460		
ene		ug/kg	460		
line		na/ka	270		
hloroanıline		ug/kg	960		
ethylnaphthaiene		ug/kg	3,80	•	
e e e e e e e e e e e e e e e e e e e	ND	ug/kg	670		

Laboratory Sample Number: L9509693-03

47139-6 PILE #1

PARAMETER	RESULT	7727400-				
		UNITS	RDL	REP	METHOD	DATES
						PREP ANALYSIS
Semi-volatile Organics by C	C/MS conti	กมัดสี	Mark to a series			
2-Nitroaniline		The state of the s			8270	21-Dec 23-Dec I
3-Nitroaniline	ND	ug/kg	310			
4-Nitroaniline	ND	ug/kg	580			
Dibenzofuran	ND	ug/kg	560			
a, a-Dimethylphenethylamine	ND	ug/kg	190			
Hexachloropropene	ND	ug/kg	4400			
Nitrosodi-n-butylamine	ND	ug/kg				
2-Methylnaphthalene	ND	ug/kg	1900			
Tetrachlorobenzene	ND	ug/kg	460			
Pentachlorobenzene	ND	ug/kg	170			
a-Naphthalamine	ND	ug/kg	1200			
b-Naphthalamine	ND	ug/kg	1200			
ycetoppoperine	ND	ug/kg	1900			
Acetophenetidide Dimethoate	ND	ug/kg	880			
A-Drinehiu	ND	ug/kg	960			
4-Aminobiphenyl	ND	ug/kg	1900			
Pentachloronitrobenzene	ND	ug/kg	1000			
Isodrin	ND	ug/kg	380			
p-Dimethylaminoazobenzene	ND	ug/kg	360			
-111Orobenzilate	ND	ug/kg	690			
s(2-ethylhexyl)adipate	ND	ug/kg	1500			
Methylcholanthrene	ND	ug/kg	310			
conylmethanesulfonate	ND	ug/kg	1900			
rce cobuenone	ND	ug/kg	1400			
itrosodipiperidine		ug/kg	460			
,12-Dimethylben (a) anthron	AND	ug/kg	1900			
THE CE OBOUTHEELD TAME DO		ug/kg	2300	•		
,4,5-Trichlorophenol	ND	ug/kg	3800			
-Cnioro-m-cresol	<b>M</b> D	ug/kg	190			
-Chlorophenol	MD	ug/kg	290			
,4-Dichlorophenol	ND	ug/kg	310			
4-Dimethylphenol	ND	ug/kg	960			
Nitrophenol	ND	ug/kg	230			
Nitrophenol	ND	ug/kg	310			
4-Dinitrophenol	ND	ug/kg	1200			
6-Dinitro-o-cresol	ND	ug/kg	1400			
ntachlorophenol	, ND	ug/kg	1700			
enol	ND	ug/kg	670			
esol, Total	ND	ug/kg	810	•		
4.5-Trichlorophenol	ND	ug/kg	690			
6-Dichlorophenol	ND	ug/kg	270			
nzoic Acid	ND	ug/kg				
nzyl Alcohol	ИD	ug/kg	460			
	ND	ug/kg	3900 560			
RROGATE RECOVERY		Ţ.				
luorophenol	45.5					
nol-de	<b>-</b>	<b>\$</b>				
robenzene-ds		*				
robenzenalds	50.0					

Laboratory Sample Number: L9509693-03

47139-6 PILE #1

PARAMETER	PECTT I					
	RESULT	UNITS	RDL	REF	METHOD	DATES
						PREP ANALYSIS
Semi-realization of the series						
Semi-volatile Organics by G	C/MS conti	nued	Talah Managaran	andronesis ( 🛶 ) is a	e Enghance e cons	
2-Fluorobiphenyl				The state of the state of	B270	21-Dec 23-Dec
2,4,6-Tribromophenol	93.0	*				
4-Terphenyl-d14	87.0	ક્ર				
Transfer MAR	100.	*				
Polychlorinated Biphenyls		والمراوع والمقارع والمقارضو	. Tarket jake suas in in in in			
· · · · · · · · · · · · · · · · · · ·	Application of the second of t			1	8080	21-Dec 22-Dec
Arochlor 1221	ND	ug/kg				
Arochlor 1232	ND	ug/kg	250			
Arochlor 1242/PCB 1016	ND		250			
Arochior 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			
	740	ug/kg	250			
SURROGATE RECOVERY						
2 4 5 5 7						
2,4,5,6-Tetrachloro-m-xylene	70.0	*				
Decachlorobiphenyl	81.0	š				
rganochlorine Pesticides						
				راد در در این به میشود این است. میشود در در این به میشود و میشود این میشود	dad Madales (1999)	
			ar i da sarrigi da en esta filoso en		3080	27-00-00-
Delta-Buc				in the second		STATINGS TY-DEC I
	ND	ug/kg	50.	is Philippine 25		SETTINEC 22-Dec [
Lindane	ND	ug/kg ug/kg	50. 50			STATEDEC 22-Dec [
Lindane Alpha-BHC	ND ND	ug/kg	50.	in Promise we engine		SSZITDEC 22-Dec [
Lindane Alpha-BHC Beta-BHC	ND	ug/kg ug/kg	50. 50.	is the material and a green	or Tar The Artifician Color	SSZITDEC SZ-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor	ND ND	ug/kg ug/kg ug/kg	50. 50. 50.	is de Tiblica e de	or Tail College (1997)	SSZITDEC SZ-DEC [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin	ND ND ND	ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50.			SZITDEC ZZ-DEC [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Meptachlor epoxide	ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50.	is different and a sign		SZITDEC ZZ-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin	ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50.			SZITDEC ZZ-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Adrin aldehyde	ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50.			SZITDEC ZZ-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Indrin aldehyde Indrin ketone	ND ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Endrin aldehyde Endrin ketone ieldrin	ND ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Endrin aldehyde Endrin ketone ieldrin ,4'-DDE	ND ND ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Endrin aldehyde Indrin ketone ieldrin J4'-DDE J4'-DDD	NO NO NO NO NO NO NO NO NO NO NO NO NO N	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-DEC [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Adrin aldehyde Indrin ketone ieldrin ,4'-DDE ,4'-DDD		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50.			SZITUCC ZZ-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Adrin aldehyde Indrin ketone ieldrin I - DDE I - DDD I - DDT Indosulfan I		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-DEC [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Adrin aldehyde Indrin ketone ieldrin A'-DDE A'-DDD A'-DDT Indosulfan I		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-DEC [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Chdrin aldehyde Endrin ketone ieldrin 4'-DDE 4'-DDD 4'-DDT Endosulfan I Endosulfan sulfate		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-DEC I
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin aldehyde Endrin ketone Dieldrin .4'-DDE .4'-DDD .4'-DDT Indosulfan I Indosulfan sulfate ethoxychlor		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			ZZI-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Chdrin aldehyde Endrin ketone ieldrin 4'-DDE 4'-DDD 14'-DDT Indosulfan I Indosulfan Sulfate ethoxychlor exaphene		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			ZZITDEC ZZ-Dec E
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Chdrin aldehyde Endrin ketone ieldrin 4'-DDE 4'-DDD 14'-DDT Indosulfan I Indosulfan Sulfate ethoxychlor exaphene		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-Dec I
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Chdrin aldehyde Endrin ketone Heldrin A'-DDE A'-DDD A'-DDT Hodosulfan I Hodosulfan Sulfate Ethoxychlor Exaphene Hordona		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			SZITDEC ZZ-Dec I
Delta-BHC Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Endrin aldehyde Endrin ketone Dieldrin ,4'-DDE ,4'-DDD ,4'-DDT Indosulfan I Indosulfan III Indosulfan Sulfate ethoxychlor Dxaphene Hiordane  DRROGATE RECOVERY		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			ZZI-Dec [
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Endrin aldehyde Endrin ketone Dieldrin .4'-DDE .4'-DDD .4'-DDT Indosulfan I Indosulfan II Indosulfan sulfate ethoxychlor exaphene hlordane  URROGATE RECOVERY		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			21-Dec 22-Dec D
Lindane Alpha-BHC Beta-BHC Heptachlor Aldrin Heptachlor epoxide Endrin Chdrin aldehyde Chdrin ketone Hieldrin 4'-DDE 4'-DDD 4'-DDT Hdosulfan I Hdosulfan Sulfate Ethoxychlor Exaphene Hiordane		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			ZZIDEC ZZ-Dec [

<sup>12259505:34</sup> Page 17

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

Laboratory Sample Number: L9509693-04

47139-7 PILE #2

Date Collected: 19-DEC-95 Date Received: 19-DEC-95

Sample Matrix:

220 20 00 CC 00 00 C.

SOIL

Date Reported : 26-DEC-95

Condition of Sample:

Satisfactory

Field Prep: None

Number & Type of Containers: 1 Plastic

PARAMETER	RESULT	UNITS	RDL	REP	METHOD	DATE	·s	II
				•			NALYSIS	
Solids, Total	91.	<b>*</b>	0.10	3	2540B		26-Dec	- SI
рн	7.4	su		2	9040		19-Dec	SI
Hydrocarbons, Total	130	mg/l	0.50	1	418.1	26-Dec	26-Dec	\$T
Flash Point	>200	F	60	1	1010		21-Dec	ST
Cyanide, Reactive	ND	mg/kg	0.25	1	7.3		21-Dec	ુS <b>∵</b>
Sulfide, Reactive	ND	mg/kg	0.20	1	7.3		21-1	) St
PCLP Extraction				12	1311	22-Dec		
Arsenic, TCLP Barium, TCLP Cadmium, TCLP Chromium, TCLP	ND ND ND ND	mg/1 mg/1 mg/1 mg/1	1.0 0.50 0.10 0.20	1 1 1	6010 6010 6010	26-Dec	26-Dec 26-Dec 26-Dec	GF

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

Laboratory Sample Number: L9509593-04

47139-7 PILE #2

•	RESULT	UNITS	RDL	REF	METHOD	
					MEINOD	DATES
Semi-volatile						PREP ANALYSIS
Semi-volatile Organics by G	C/MS			2	827.0	
Acenaphthene	ND			a service service		21-Dec 22-Dec
Benzidine	ND	ug/kg	270			
1,2,4-Trichlorobenzene	ND	ug/kg	2300			
Hexachlorobenzene	ND	ug/kg	340			
Bis (2-chloroethyl) ether	ND	ug/kg	270			
2-Chioronaphthalene	ND	ug/kg	290			
1,2-Dichlorobenzene	=	ug/kg	290			
1,3-Dichlorobenzene	ND	ug/kg	270			
1,4-Dichlorobenzene	ND	ug/kg	310			
3,3'-Dichlorobenzidine	ND	ug/kg	230			
2,4-Dinitrotoluene	ND	ug/kg	610			
2,6-Dinitrotoluene	ND	ng/kg	340			
Azobenzene	MD D	ug/k <del>g</del>	270			
Fluoranthene	ND	ug/kg	270			
-Chlorophenyl phenyl ether	ND	ug/kg	270			
-Bromophenyl phenyl ether	ND	ug/kg	290			
Ris (2-chloroisopropyl) ether	ND	ug/kg	270			
Sis (2-chloroethoxy) methane	ND	ug/kg	190			
exachlorobutadiene	ND	ug/kg	210			
exachloroguelene	ND	ug/kg	760			
exachlorocyclopentadiene exachloroethane	ND	ug/kg	730			
sophorone	ND	ug/kg	480			
aphthalene	ND	ug/kg	230			•
itrobenzene	ND	ug/kg	210			
itmospisi	ND	ug/kg	180			
itrosoDiphenylAmine(NDPA)/DF	A ND	ug/kg	230			
-Nitrosodi-n-propylamine	ND	ug/kg	250	•		
is (2-ethylhexyl) phthalate	ND	ug/kg	880			
ityl benzyl phthalate	ND	ug/kg				
-n-butylphthalate	ND	ug/kg	190			
-n-octylphthalate	ND	ug/kg	860			
ethyl phthalate	ND	ug/kg	230			
methyl phthalate	ND	ug/kg	480			
enzo (a) anthracene	ND	ug/kg	480			
mzo (a) pyrene	ND	ug/kg	310			
nzo(b) fluoranthene	ND	ug/kg	360			
nzo(k) fluoranthene	ND	ug/kg ug/kg	340			
rysene	ND	ug/kg	340			
enaphthylene	MD MD		310		•	•
thracene	ND	ug/kg	250			
nzo(ghi)perylene	ND	ug/kg	230			
uorene	ND	ug/kg	480			
enanthrene	ND	ug/kg	270			
penzo(a,h)anthracene	ND	ug/kg	250			
leno(1,2,3-cd)pyrene	ND	ug/kg	460		•	
rene	ND ND	ug/kg	460			
line	אם מא	ug/kg	270			
Chloroaniline	ND ND	ug/kg	960			
ethylnaphthalene	ND	ug/kg	380			
- ·	7477	ug/kg	670			

<sup>12269505:34 .</sup> Page 19

Laboratory Sample Number: L9509693-04

47139-7 PILE #2

ARAMETER	RESULT	UNITS	RDL	REF METHOD	DATES PREP ANALYSIS
Semi-volatile Organics by SC/	<b>M</b> S continu	ned	ANT SIN	1 8270	21-Dec 22-Dec
2-Nitroaniline	ND	ug/kg	310		
3-Nitroaniline	ND	ug/kg	570		
-Nitroaniline	ND	ug/kg	5 <b>50</b>		
Dibenzofuran	ND	ug/kg	190		
a, a-Dimethylphenethylamine	ND	ug/kg	4400		
Hexachloropropene	ND	ug/kg	1900		
vitrosodi-n-butylamine	ND	ug/kg	460		
2-Methylnaphthalene	ND	ug/kg	170		
retrachlorobenzene	ND	ug/kg	1200		
Pentachlorobenzene	ND	ug/kg	1200		
a-Naphthalamine	ND	ug/kg	1900		
b-Naphthalamine	ND	ug/kg	880		
Acetophenetidide	ND	ug/kg	960		
Dimethoate	ND	ug/kg	1900		
4-Aminobiphenyl	ND	ug/kg	990		
Pentachloronitrobenzene	ND	ug/kg	380		
	ND	ug/kg	360	·	
Isodrin p-Dimethylaminoazobenzene	ND	ug/kg	690		
	ND	ug/kg	1500		
Chlorobenzilate	ND	ug/kg	310		
Bis (2-ethylhexyl) adipate	ND	ug/kg	1900		
3-Methylcholanthrene	ND	ug/kg	1400		
Ethylmethanesulfonate	ND	ug/kg	460		
Acetophenone	ND	ug/kg	1900		
Nitrosodipiperidine		ug/kg	2300		
7,12-Dimethylbenz(a)anthrace	ND MD	ug/kg	3800		
n-Nitrosodimethylamine	ND	ug/kg	190		
2,4,6-Trichlorophenol		ug/kg	290		
p-Chloro-m-cresol	ND	ug/kg	310		
2-Chlorophenol	ND	ug/kg	960		
2,4-Dichlorophenol	ND		230		
2,4-Dimethylphenol	ND	ug/kg	310		
2-Nitrophenol	ND	ug/kg	1100		
4-Nitrophenol	ND	ug/kg	1400		
2,4-Dinitrophenol	ND ND	ug/kg	1700		•
4,6-Dinitro-o-cresol	=	ug/kg	670		
Pentachlorophenol	ND	ug/kg	800		
Phenol	ИD	ug/kg			
Cresol, Total	ND	ug/kg	690 270		
2,4,5-Trichlorophenol	ND	ug/kg		•	
2,6-Dichlorophenol	ND	ug/kg	460 3800		
Benzoic Acid	ND	ug/kg			
Benzyl Alcohol	ND	ug/kg	\$50		
SURROGATE RECOVERY					
Fluerophonol	<b>66</b> .0	<sup>ફ</sup>			
2-Fluorophenol Phenol-d6	79.0	ę			
Nitrobenzene-d5	114.	ř			

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

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oratory Sample Number: L9509693-04

47139-7 PILE #2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES
			•	-		PREP ANALYSI:
Semi-volatile Organics by Go	ZMS contin	ned Second	Hase sweet	Paulin alah e	Note: 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12 to 12	Mark
2-Fluorobiphenyl		en en en en en en en en en en en en en e		a Cariffelia	8270	21-Dec 22-Dec
2 4 6-Tribreset	93.0	*				
2,4,6-Tribromophenol	128.	*				
4-Terphenyl-d14	116.	*				
Polychlorinated Biphenyls		944457.		<b>1</b>	8080	21-Dec 26-Dec
Arochlor 1221	ND				त्यम् जन्मा च द्वार ११,८ ०० <u>१</u>	
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	· <del>-</del>	ug/kg	250			
Arochlor 1262	ND	ug/kg	250			
Arochlor 1268	ND	ug/kg	250			
	ND	ug/kg	250			
SURROGATE RECOVERY						
,4,5,6-Tetrachloro-m-xylene	80.0	ŧ				
Decachlorobiphenyl	92.0	è	•			
elta-BHC indane	ND ND	ug/kg ug/ka	<b>5</b> 0.			
	ND	ug/kg	50.			
lpha-BHC eta-BHC	ND	ug/kg	50.			
	ND	ug/kg	50.	•		
eptachlor	ND	ug/kg	<b>5</b> 0.			
ldrin	ND	ug/kg	50.			
eptachlor epoxide	ND	ug/kg	50.			
ndrin	ND	ug/kg	50.			
ndrin aldehyde	ND	ug/kg	50.			
ndrin ketone	ND	ug/kg	50.			
ieldrin	ND	ug/kg	50.			
,4'-DDE	ND	ug/kg	50.			
.4'-DDD	ND	ug/kg	50.			
,4'-DDT	ND	ug/kg	50.			
ndosulfan I .	ND	ug/kg	50.			
ndosulfan II	ND	ug/kg	50. 50.			
ndosulfan sulfate	ND	ug/kg ug/kg	50. 50.			
*homent 1	ND	ug/kg	50. 50.			
thoxychlor	ND	ug/kg		•		
xaphene		~3 / <b>~</b> 9	100			
xaphene lordane	ХD	ug/kg	50.			
xaphene		ug/kg	50.			
pxaphene alordane  PROGATE RECOVERY  4,5,6-Tetrachloro-m-xylene	ND.	-	50.			
oxaphene llordane		ug/kġ *	50.			

## ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9509693

Parameter	Value 1			Units
p <b>u</b>	DUPLICA	TE for sam	515/60 3555	
	7.4		6+e/s/20350.	
	• •	7.3	•	_
	DUPLICA	TE for sam	le(s) 01-02	SU
Mercury, Total	ND	ND		
CLP Extraction	Angella (1975) de la companya (1975) de la c		NC	mg/kg
	DUPLICA	E for same	le(s) 03-04	mg/kg
	AU.	ND	NC	
CLP Extraction				<b>mg/l</b> \$44,670,700,2240,000,700,900
reonia ma	A W. S. S. S. P.	E cr samp	le(s) 03-04	
arium, TCLP	ND	ND	NC	
admium, TCLP	ND ND	ND	NC	mg/l mg/l
romium, TCLP	ND	ND ND	NC	mg/1
elenium, TCLP	ND	ND	NC NC	mg/l
lver, TCLP	ND	ND	NC	mg/l mg/l
	ND .	ND	NC	mg/l

## ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

aboratory Job Number: L9509693

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS	pike Recov	erv Ms/MsD f	On sample (A) A)
1,1-Dichloroethene			
Trichloroethene	104	102	2
Benzene	101	104	3
Toluene	96	102	6
Chlorobenzene	99 99	103 105	4 6
Semi-volatile Organic by GC/			_
p-Chloro-m-cresol			
2-Chlorophenol	30	40	29
Phenol	62	45	32
Acenaphthene	75 7-	51	38
1,2,4-Trichlorobenzene	79	79	0
1,4-Dichlorobenzene	116	88	27
2,4-Dichioropenzene 2,4-Dinitrotoluene	102	74	32
V. Witness diameter	45	56	22
N-Nitrosodipropylamine Pyrene	89	78	13
ryzene	94	87	8
SURROGATE RECOVERY			
2-Fluorophenol	77	45	<b>5</b> 0
henol-d6	64	40	52
trobenzene-d5	82	63	46 26
-Fluorobiphenyl	72	75	
2,4,6-Tribromophenol	102	75 71	4
-Terphenyl-d14	80	66	36 19
esticide Spike Recovery	MS/MSD fo	or sample(s)	•
indane	138		
eptachlor	136 74	161	15
ldrin	83	100	30
ndrin		103	22
vieldrin	'103 92	119	14
,4'-DDT		101	9
, - <del></del>	91	133	38
URROGATE RECOVERY			
,4,5,6-Tetrachloro-m-xylene	84	118	3.4
ecachlorobiphenyl	90	104	34
		*0#	14

## ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9509693

Parameter	% Recovery	
Total Metals	SPIKE for sample(s) 01-02	
Arsenic, Total	100	
Barium, Total	88	
Cadmium, Total	100	
Lead, Total	89	
Silver, Total	. 80	
Total Metals	SPIKE for sample(s) 01-02	
Mercury, Total	113	
TCLP Extraction	SPIKE for sample(s) 03-04	
Mercury, TCLP	123	
TCLP Extraction	SPIKE for sample(s) 03-04	
Arsenic, TCLP	103	
Barium, TCLP	100	
imium, TCLP	103	
comium, TCLP	103	
Lead, TCLP	104	÷
Selenium, TCLP	101	
Silver, TCLP	90	

#### ALPHA ANALYTICAL LABS ADDENDOM I

#### REFERENCES

- 1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-
- 3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF.

## GLOSSARY OF TERMS AND SYMBOLS

Reference number in which test method may be found. REF METHOD Method number by which analysis was performed.

Initials of the analyst.

AI	AHY	Eight Walkup Westborough			1151	21.	101	0	1	~	'HA	IN	OF CUSTODY	RECORD	No.	1659
<b>■</b> 7	Laboratories, Inc.												ALYSIS REQUEST			
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Company Addices:		Pi	one N					•	7	Proj	ect Man	ger:		Alpha Job Number: (La		
		P	AX No	-				<del></del>			/-	Jac	e Danis	15096	, 43	
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ALPHA		A = Amiltor Glees B = Bectsrie Conteiner O = Other	8/3	l n		1	Ę.	١	1	35 - F			R = River Stream S = Soll		⇒ Drinking Wa ⇒ Bottom Sedi	
L * 6 #	Sample I.D.	Containers	Matrix /	Unpres	آد اد	Nitric	al Line	5		lable	Sam Date	piing T	X1 = Other	X2 = Other		
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Sampler's Signature	7	Villacors Detro		len	,	NUI	MBE	R	IB	AN	SEERS	RELING	TRANSFERS	ACCEPTED BY	DATE	TIME
ADDITIONAL CO	DMMENTS:		L		{		1	」		r	5	<u> </u>	olcho		12/19	14:30
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| UE UD:45 rii

149 Rangeway Road 508 / 667-1400

## CHAIN OF CLUTODY RECORD

REQUIRED

N. Billerice, Massachusette 01862 REGULATORY CLASSIFICATION - PLEASE SPECIFY Fax 508 / 667-7871 ☐ NPDES ☐ DRINKING WATER THERA DIMCP OTHER. **TURN AROUND** ☐ 15 BUSINESS DAY 10 BUSINESS DAY CONTACT PERSON PROJECT I. PHONE # FAX# COMPANY TRUSH\_ and aw XOTHER. REQUESTED PARAMETERS **ADDRESS** # OF CONTAINERS (COMMENTS) CONTAINER TYPE PRESERVATIVES STATE CITY Metal 10398270 SAMPLE I.D. TIME DATE Stock Pile Dul-05 X X X X ~X \* 1 IEA USE ONLY (SIGNATURE) DATE TIME DATE TIME RELINQUISHED BY (SIGNATURE) **FIELD REMARKS** 1/114 DATE / TIME RECEIVED FOR LAB BY DATE / TIME RELINQUISHED BY (SIGNATURE)

# Limited Removal Action

DW-05 & Sump 2.13

	7
nep	
1191	

Massachusetts Department of Environmental Protection BWSC-012A Bureau of Waste Site Cleanup Release Tracking Number \*\* BILL OF LADING (pursuant to 310 CMR 40.0030) A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED: €DW=05 - DW-01-33 Release Name (optional): \_\_\_ 430 Boston Post Road Location Aid: -City/Town: Wayland Zip Code: 01778 Date/Period of Generation: 12/15/95 to 12/18/95Additional Release Tracking Numbers Associated with this Bill of Lading: None \*Note: If this Bill of Lading is the result of a Limited Removal Action (LRA) taken prior to Notification, a Release Tracking Number is not needed. B. PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH BILL OF LADING: Name of Organization: Raytheon Electronic Systems Name of Contact: Grace Hwang Technical Specialist -Street: 528 Boston Post Road Sudbury Zip Code: 01776 City/Town: \_\_\_ \_ State: -Telephone: 508 - 440 - 2729 Ext. C. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH BILL OF LADING: (check one/specify) RP Specify (circle one): Owner Operator (Generator ) Transporter Other RP: PRP Specify (circle one): Owner Operator Generator Transporter Other PRP: Fiduciary/Secured Lender Agency/Public Utility on a Right of Way Other Person: . If an owner and/or operator is not conducting the response action associated with the Bill of Lading, provide on an attachment the name, contact person, address and telephone number, including any area code and extension, for each, if known. D. TRANSPORTER/COMMON CARRIER INFORMATION: Transporter/Common Carrier Name: Charlton Welding Title: President Contact Person: Larry McKessick ll Griffin Street Street: \_\_ Zip Code: 01508 MA Charlton State: -City/Town: . Telephone: 508 - 248 - 7037 Ext. E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION: Operator/Facility Name: AMREC \_ Title: Operations Manager Contact Person: Bill McCambridge Street: 130 Route 20 City/Town: Charlton Zip Code: 01508 \_ State: -Telephone: 508 - 248 - 3777 Ext. ☐ Incinerator Landfill/Disposa! X Asphalt Batch/Cold Mix Type of Facility: ☐ Temporary Storage Landfill/Daily Cover (check one) Asphalt Batch/Hot Mix Other: \_\_\_ Landfill/Structural Fill ☐ Thermal Processing Division of Hazardous
Waste/Class A Permit #: 0144-91 Division of Solid Waste N/A MAD 982-201-055 \_ EPA Identification #: . Actual/Anticipated Period of Temporary Storage (specify dates if applicable): \_\_\_\_ / \_\_\_ to \_\_\_ / \_\_\_ to

Reason for Temporary Storage (if applicable): N/A



# Massachusetts Department of Environmental Protection Bursc-012A Bureau of Waste Site Cleanup

BILL OF LADING (pur	suant to 310 CMR 40.0030)		
E. RECEIVING FACILITY/TEMPORARY	STORAGE LOCATION (c	ontinued):	
Temporary Storage Address: N/A		*	
Street:			
City/Town:	State:	Zip Code: _	
F. DESCRIPTION OF REMEDIATION W	ASTE:		·
(check all that apply)			
	Soil ) Groundwater Surface		A.C
	Demolition/Construction Waste Other:	Vegetation/Organic	Materials
Inorganic Absorbant Materials  Non-hazardous Uncontainerized Waste (circle		hase Liquid Other:	
Non-hazardous Containerized Waste (circle all			Drums
	Other:		
Type of Contamination (circle all that apply): Ga	soline Diesel Fuel #2	2 Oil #4 Oil	#6 Oil (Waste Oil)
Kerosene Jet Fuel Othe			
Estimated Volume of Materials: Cubic Yards: _	19 * Tons:	Ot	her:
Contaminant Source (check one/specify):   Tran	nsportation Accident Underg	round Storage Tank	Other: Inactive Dry Well
Response Action Associated with Bill of Lading (circ			ease Abatement Measure
Utility-Related Abatement Measure			hensive Response Action
Other (specify):	· •		
Remediation Waste Characterization Support Docu			
Site History Information Sampling and		es X Laboratory Da	ta Field Screening Data
If supporting documentation is not appended.	provide an attachment stating th	ne date and in connec	tion with what document such
information was previously submitted to DEP.	·		
G. LICENSED SITE PROFESSIONAL	· . · _		·
Name of Organization: ERM-New Engl	and, Inc.		
LSP Name: John Drobinski  Talanhari 617 - 742 - 8228 - 1	152	_ Title:Princ	cipal-in- Charge
relephoneExt.	· <del></del>		
I have personally examined and am familiar with the Opinion that the testing and assessment actions			
Opinion that the testing and assessment actions: CMR 40.0030, and that the facility or location can that significant penalties including, but not limited be false, inacturate, or materially incomplete.  Signature:  Date:///6 / 9 6	accept remediation wastes with t	he characteristics desc	ribaria this submittal. I am aware
that significant/penalties including, but not limited be false, inaccurate, or materially incomplete.	to, possible lines and imprisonme	ent may result if I willuly	STOOM VIOLENCE I KNOW to
Signature		Seal:	2 JOHN / FILE
Date: 1 1/6/96	· · · · · · · · · · · · · · · · · · ·	300	DROBINSKI   =
License Number: 2/96		3/5	No. 2196
* 9 yards came from LRA DW-	-05	_	SC STEP CONTACT
10 yards came from LRA DW		•	SITE PROFESSA
H. CERTIFICATION OF PERSON CON BILL OF LADING:	IDUCTING RESPONSE AC	CTION ASSOCIATI	ED WITH THIS
I certify under penalties of law that I have person and all documents accompanying this certification the information, the material information contained that there are significant penalties, including, but incomplete information.	on, and that, based on my inquiry d herein is, to the best of my know	of those individuals immediate and belief, true, a dimprisonment, for wilfi	nediately responsible for obtaining ccurate and complete. I am aware ully submitting false, inaccurate, or
Signature: Hay	Kulen	Date:/	16176
Name of Person (print): George Chret:	ien		<del></del>
Posicod 10/1/93	This form is printed on recycler	d paper	Page 2

	Bureau of Waste BILL OF LADING LOG SHEET	G (pursuant to 310 CMR 40:0030)	<b>-</b> -	Release Tracking Number
LOAD INFOF	RMATION: use of Transporter Repres	entative:	Receiving Facility/Temporary	Storage Representative:
Date of Shipment:	Time of Shipment:		Date of Receipt:	Time of Receipt:
01 / 18 / 91 Fruck/Tractor Regist 22230		Circle one) amony  Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) arr/pm
LOAD 2: Signatu	re of Transporter Repres	entative:	Receiving Facility/Temporary	/ Storage Representative
Date of Shipment:	Time of Shipment:	(circle one) am/pm	Date of Receipt:	Time of Receipt:
Truck/Tractor Regist		Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) am/pm
LOAD 3: Signatu	ure of Transporter Repres	entative:	Receiving Facility/Temporary	y Storage Representative
Date of Shipment:	Time of Shipment:	(circle one) am/pm	Date of Receipt:	Time of Receipt:
Truck/Tractor Regis		Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) am/pm
LOAD 4: Signate	ure of Transporter Repres	entative:	Receiving Facility/Temporar	y Storage Representative
Date of Shipment:	<u> </u>	:(circle one) am/pmTrailer Registration (if any):	Date of Receipt:	Time of Receipt:
Truck/Tractor Regis	tration:	Trailer negistration (# arry).	Load Size (cu. yds./tons): _	
LOAD 5: Signat	ure of Transporter Repres	entative:	Receiving Facility/Temporar	y Storage Representative
Date of Shipment:	•	: (circle one) am/pm	Date of Receipt:	Time of Receipt:
Truck/Tractor Regis		Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) am/pm
LOAD 6: Signat	ure of Transporter Repres	sentative:	Receiving Facility/Tempora	ry Storage Representativ
Date of Shipment:		: (circle one) am/pm	Date of Receipt:	Time of Receipt:
Truck/Tractor Regis		Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) am/pm
LOAD 7: Signat	ture of Transporter Repre	sentative:	Receiving Facility/Tempora	ry Storage Representativ
Date of Shipment:	Time of Shipmen		Date of Receipt:	Time of Receipt:
// Truck/Tractor Regis	stration:	(circle one) am/pm Trailer Registration (if any):	Load Size (cu. yds./tons):	(circle one) am/pm

Revised 10/1/93

This form is printed on recycled paper.

Total Carried Forward (cu.yds./tons):

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Page 1 of 1

6	
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# Massachusetts Department of Environmental Protection BWSC-012C Bureau of Waste Sile Cleanup

BILL OF LADING (pursuant to 310 CMR 40,0030) SUMMARY SHEET OF

	Release 1	recidn	g N	<del>riba</del> i:
	NI	12.	;	

K. SUMMARY OF	K. SUMMARY OF SHIPMENTS:				
DATE OF SHIPMENT:	DATE OF RECEIPT:	NUMBER OF LOADS SHIPPED:	DAILY VOLUME SHIPPED (CU. YOS TONS)		
1-18-96	1-18-96	)	DAILY VOLUME SHIPPED (CU. YOS TONS)		
~~~~~~					
******					
:					
	, , , , , , , , , , , , , , , , , , ,		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	*=====================================				
CO ALMAI IS	SHEET TOTAL SHIPPED:	<i>1</i>	9.78.		
BILL OF LADING TOTALS			1. /6.		
	· · · · · · · · · · · · · · · · · · ·				

Massachusetts Department of Environmental Protection BWSC-012C  Bureau of Waste Sile Cleanup  BILL OF LADING (pursuant to 310 CMR 40.0030)  SUMMARY SHEET  BUSC-012C  Release Tracking Number:
L. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE LOCATION:  Receiving Facility/Temporary Location Representative (print):  Signature:  Date: 11996
M. ACKNOWLEDGEMENT OF SHIPMENT AND RECEIPT OF REMEDIATION WASTE BY PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LADING:  I certify under penalties of law that I have personally examined and am familiar with the information contained in this submittel, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are eligibilized penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting talse, inaccurate, or incomplete information.  Signature:  Date:

FEB-01-1996 14:05

FROM

15084402051

P.02

100 West Main Street Northborough, MA 01532 Tel. (508) 393-6333

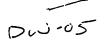


P.O. Box 653 130 Sturbridge Road Chariton, MA 01508 Lei. (508) 248-3777 Fax (508) 248-7701

TO

35500

DATE			
CUSTOMER IAidIAW	·		
GENERATOR RAYHHSON DWOS			
CITY WAYNAND STATE MA			•
TRUCK NO Oart _ 185	13:56 01	1/18/96	66460 LB 6
NET WEIGHT - TONS			
REMARKS 1 10AD OF OIL ( SOI)			
	14:22 0	1/18/98	66460 LB (K) 6
			46900 LB T
- 1246-01-10		į	19560 LB N
		:	
DRIVER ON TOFF MAAA Stee	•		
		•	
WEIGHER			





# INFORMATION FORM FOR RELEASE SITES

INF	ORMATION FORM TOTT THE
ENERATOR INFORM Generator Name:	Raytheon Electronic Systems  43.0 Boston Past Road
Generator Address:	Wayland MA 01778
Release Location:	
Contact Person: Telephone:	Grace Hwang 508 440 2729 Fax: 508 440 2051
RELEASE INFORMA	TION:
Site History/Use:	This site was a research and development center Pilot, small scaled production of electronic related actives were fested.  None This soil surrounds an out-of-service
Description of Release:	druvel . The contaminated wiste was removed
Petroleum Released:  Amount of Soil:	Not Applicable yords.
Description of Soil:	Fine to medium samo
BILLING INFORMAT	TION: (for submission of documentation and invoice(s))
Company: Address:	Laidlaw Environmental  221 Setten Street  11 Andriver MA 01845
Contact Person:	Nave Danis 508 683 1002 Fax: 508 682 3871
Telephone:	700 0021

SITE DIAGRAM AND SAMPLING INFORMA	ATION:
In the space below, please provide an approxima stockpile(s) of soil designated for recycling. Indica methodologies used. Attach additional information	ate representation of the site and/or the ate the sampling delineations and if necesary.
Not to scale BEFORE	
//// BLOG	1
	DN-06, 47133-07]
Note to Scale AFTER E	XCAVATION N-
1/1/ BLDG	1
20 yard roll-off contains a 9 yards of debris and soil. Not intended to compling points  tor representative stock pile characteriz	b'x6'x9' hole  * * *  * *  Zao yard roll-off  Contains & 9 yard of Soil-ste attached
CERTIFICATION STATEMENT:	results for this pile.
I certify that the information provided on this sheet carefully reviewed and is representative of the site characterization of the site.	and applicable attachments has been e, and I have applied due diligence in the
Signed: Linco Hwang	Date: <u>/2/27/95</u>
Name: Grace Hwang	_ Title: Tahnical Specialist
Company: Ray the on Electron	ic Sistems
Telephone: 508 440 272 9	Fax: 508 440 2051

# 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: Laidlaw Environmental Services

Laboratory Job Number: L9509693

Address: 221 Sutton Street

Invoice Number: 79983

North Andover, MA 01845 Attn: Dave Danis

Raytheon

Date Received: 19-DEC-95

Date Reported: 26-DEC-95

Project Number:

Site:

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	
L9509693-01 L9509693-02	47133-06 /	SAMPLE LOCATION
L9509693-03	47133-07V	Wayland, MA
9509693-04	47139-6 PILE #1	Wayland, MA
- ••	47139-7 PILE #2	Wayland, MA
	· ·	Wayland, MA

Authorized by:

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

Laboratory Sample Number: L9509693-02

Sample Matrix: 47133-07

Date Collected: 19-DEC-95 Date Received : 19-DEC-95

SOIL

Date Reported : 26-DEC-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Plastic

Cally	RESULT	UNITS	RDL	REI	METHOD	DATES
Solids, Total	94.					PREP ANALY
Hydrocarbons, Total		*	0.10	3	2540B	26 -
Total Metals Arsenic, Total Barium, Total	ND	mg/l	0.50	ı	418.1	26- <u>r</u>
Arsenic manage					3-6 6 e 2 d	forDec SerD
Barium, Total	6.0	m~ /1			~~2005/30SD	
admium, Total hromium, Total ead, Total ercury, Total elenium, Total ilver, Total	44. 10. 160 22. ND ND 0.43	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.20 2.0 0.40 0.80 2.0 0.25 0.40	I I I I I	6010 6010 6010 6010 6010 7470/7471 6010	19-Dec 22-De 19-Dec 22-De 19-Dec 22-De 19-Dec De 19-Dec 21-De 19-Dec 22-De

Laboratory sample Number: L9509693-02

47133-07

PARAMETER	RESULT	UNITS	RDL	REP	METHOD	
					1221100	DATES PREP ANALYSIS
Volatile Organics by GC/MS	Marieni Jakumea	raheranes e est				
				2.1	8260	22-Dec 22-Dec
Methylene chloride	ND	ug/kg				
1,1-Dichloroethane	ND	ug/kg	25.			
Chloroform	ND	ug/kg	7.5			
Carbon tetrachloride	ND	ug/kg	7.5			
1,2-Dichloropropane	ND	_	5.0			
Dibromochloromethane	ND	ug/kg	18.			
1,1,2-Trichloroethane	ND	ug/kg	5.0			
2-Chloroethylvinyl ether	ND	ug/kg	7.5			
retrachloroethene	ND	ug/kg	<b>5</b> 0.			
Chlorobenzene	ND	ug/kg	7.5			
Prichlorofluoromethane	ND	ug/kg	18.			
1,2-Dichloroethane	ND	ug/kg	25.			
L, I, 1-Trichloroethane	ND	ug/kg	7.5			
3romodichloromethane	ND	ug/kg	5.0			
rans-1,3-Dichloropropena	ND	ug/kg	5.0			
15-1,3-Dichloropropene	ND	ug/kg	7.5	•		
romoform		ug/kg	5.0			
,1,2,2-Tetrachloroethane	ND ND	ug/kg	5.0			
enzene		ug/kg	5.0			
'oluene	ND	ug/kg	5.0			
thylbenzene	ND	ug/kg	7.5			
hloromethane	ND	ug/kg	5.0			
romomethane	ND	ug/kg	<b>5</b> 0.			
inyl chloride	ND	ug/kg	10.			
hloroethane	ND	ug/kg	18.			
,1-Dichloroethene	ND	ug/kg	10.			
rans-1,2-Dichloroethene	ND	ug/kg	7.5			
richloroethene	ND	ug/kg	7.5			
,2-Dichlorobenzene	ND	ug/kg	5.0			
3-Dichlorobenzene	ND	ug/kg	50.			
4-Dichlorobenzene	ND	ug/kg	50.			
thyl tert butyl ether	ND	ug/kg	50.			
lenes	ND	ug/kg	50.			
S-1,2-Dichloroethene	ND	ug/kg	5.0			
bromomethane	ND	ug/kg	5.0			
4-Dichlorobutane	ND	ug/kg	50.			
edomethane	ND	ug/kg	<b>5</b> 0.			
2,3-Trichloropropane	ND	ug/kg	50.		٠.	
Yrene Yrene	ND	ug/kg	50.			
chlorodifluoromethane	ND	ug/kg	5.0			
etone	ND	ug/kg	50.			
rbon Disulfide	ND	ug/kg	50.			
Butanone	ND	ug/kg	50.			
nyl Acetate	ND	ug/kg	23.			
Methyl-2-pentanone	ND	ug/kg	50.			
Hexanone	CN	ug/kg	50.			
nyl methacrylate	ND	ug/kg	50.			
colein	ND	ug/kg	5G.			
<del> </del>	ND	ug/kg	130			

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

Laboratory Sample Number: L9509693-02

47133-07

PARAMETER	RESULT	_	RDL	REF	METHOD	DATES PREP ANAI
Volatile Organics by GC/MS	continued	Staten States	of an other term			
Acrylonitrile				I	8260	22-Dec 22
Bromochloromethane	ND	ug/kg	50.			and a company
2,2-Dichloropropane	ND	ug/kg	25.			
1,2-Dibromoethane	ИD	ug/kg	25. 25.			
1,3-Dichloropropane	ND	ug/kg	25. 2 <b>5</b> .			
1.1 1 2-Toppopane	ND	ug/kg				
1,1,1,2-Tetrachloroethane Bromobenzene	ND	ug/kg	25.			
n-Butylbenzene	ND	ug/kg	25.			
Sec-press r	ND	ug/kg	25.			
sec-Butylbenzene	ND	ug/kg	25.			
tert-Butylbenzene	ND		25.			
o-Chlorotoluene	ND	ug/kg	25.			
p-Chlorotoluene	ND	ug/kg	<b>25</b> .			
1,2-Dibromo-3-chloropropane	ND	ug/kg	25.			
- Additoroputadiene	ND	ug/kg	25.			
sopropylbenzene	ND	ug/kg	25.			
-Isopropyltoluene	ND	ug/kg	25.			
aphthalene	ND	ug/kg	25.			
-Propylbenzene	ND	na\ka	25.			
.2,3-Trichlorobenzene	ND	ug/kg	25.			
2,4-Trichlorobenzene	ND	ug/kg	25.			
3,5-Trimethylbenzena	ND	ug/kg	25.			
/4/4-Trimethy!benzena	ND	ug/kg	<b>25.</b>			
rans-1,4-Dichloro-2-burg-	ND	ug/kg	<b>2</b> 5.			
thyl ether	ND	ug/kg	25.			
	NU	ug/kg	130			
RROGATE RECOVERY						
Pluene-d8						
Bromofluorobenzene	103.	ş				
bromofluoromethane	106.	ş				
	108.	<b>દ</b>				,

Laboratory Sample Number: L9509693-02

47133-07

	RESUL	UNITS	RDL	REF	METHOD	DATE
Semi-volatile Organics by						PREP A
	€C/MS				8270	
Acenaphthene	MD				an ran i marki arabat	21-Dec
Benzidine	ND	ug/kg	280			
1,2,4-Trichlorobenzene	ND	ug/kg	2400			
nexachiorobenzene	ND	ug/kg	360			
Bis (2-chloroethyl) ether		ug/kg	280			
2"Californaphthalana	ND	ug/kg	300			
1,2-Dichlorobenzena	ND	ug/kg	300			
1,3-Dichlorobenzene	ND	ug/kg	280			
1,4-Dichlorobenzene	ND	ug/kg	320			
3,3'-Dichlorobenzidine	иD	ug/kg	240			
4,4-Dinitrotolnene	ND	ug/kg	640			
2,6-Dinitrotoluene	ND	ug/kg	360			
Azobenzene	ND	ug/kg	280			
Fluoranthene	ND	ug/kg	280			
4-Chlorophenyl phenyl ether	ND	ug/kg	280			
4-Bromophenyl phenyl ether	ND	ug/kg	300	:		
Bis (2-chloroisopropyl) ether	ND	ug/kg	280			
Sis (2-chloroethoxy) methane	ND	ug/kg	200			
exachlorobutadiene	ND	ug/kg	220			
exachlorocyclopentadiene	ND	ug/kg	800			
exachloroethane	ND	ug/kg	760			
sophorone	ND	ug/kg	500			
aphthalene	ND	ug/kg	240			
itrobenzene	ND	ug/kg				
itrocobiekana	ND	ug/kg	220			
itrosoDiphenylAmine (NDPA) /DE	A ND	ug/kg	190			
	ND	ug/kg	240			
is (2-ethylhexyl) phthalate	ND	ug/kg	260			
*-y- Denzyl Dhthala-a	ND	ug/kg	920			
-n-butylphthalate	ND	ug/kg	200			
-n-octylphthalate	ND	ug/kg	740			
ethyl phthalate	ND	ug/kg	240			
methyl phthalate	ND	ug/kg	500			
nzo (a) anthracene	ND	ug/kg ug/kg	500			
nzo(a) pyrene	ND	ug/kg	320			
nzo(b) fluoranthene	ND		380			
nzo(k) fluoranthene	ND	ug/kg	360			
rysene	ND	ug/kg	360			
enaphthylene	ND	ug/kg	320			
hracene	ND	ug/kg	260			
ezo(ghi)perylene	ND	ug/kg	240			
lorene	ND	ug/kg	500			
nanthrene	ND	ug/kg	280			
enzo(a,h)anthracene	ND	ug/kg	260			
eno (1, 2, 3-cd) pyrana	ND	ug/kg	480			
ene	ND	ug/kg	480			
line	ND	ug/kg	280			
hloroaniline		ug/kg	1000	•		
ethylnaphthalene	1-	ug/kg	400			
	ND	ug/kg	700			

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

Laboratory Sample Number: L9509693-02

47133-07

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP A
			<del></del>	<del></del>		
Semi-volatile Organics by GC/N	S continu	ied	· 1887年 李明	-/1-j	8270	21-Dec
2-Nitroaniline	ND	ug/kg	320			
3-Nitroaniline	ND	ug/kg	600			
4-Nitroaniline	ND	ug/kg	580		•	
Dibenzofuran	ND	ug/kg	200			
a,a-Dimethylphenethylamine	ND	ug/kg	4600			
Hexachloropropene	ND	ug/kg	2000			
Nitrosodi-n-butylamine	ND	ug/kg	480			
2-Methylnaphthalene	ND	ug/kg	180			
Tetrachlorobenzene	ND	ug/kg	1200			
Pentachlorobenzene	ND	ug/kg	1300			
a-Naphthalamine	ND	ug/kg	2000			
b-Naphthalamine	ND	ug/kg				
Acetophenetidide	ND	ug/kg ug/kg	920			
Dimethoate	ND	ug/kg	1000			
4-Aminobiphenyl	ND		2000			
Pentachloronitrobenzene	ND	ug/kg ug/kg	1000			
Isodrin	ND		400			
p-Dimethylaminoazobenzene	ND	ug/kg	380			
Chlorobenzilate	ND	ug/kg	720			
Bis(2-ethylhexyl)adipate	ND	ug/kg	1600			
3-Methylcholanthrene	ND	ug/kg	320			
Ethylmethanesulfonate	ND	ug/k <del>g</del>	2000			
Acetophenone	ND	ug/kg	1500			
Nitrosodipiperidine	ND	ug/kg	480			
7,12-Dimethylbenz(a)anthracene		ug/kg	2000			
-Nitrosodimethylamine		ug/kg	2400			
2,4,6-Trichlorophenol	ND	ug/kg	4000			
-Chloro-m-cresol	ND	ug/kg	200			
2-Chlorophenol	ND	ug/kg	300		•	
2,4-Dichlorophenol	ND	ug/kg	320			
2,4-Dimethylphenol	ND	ug/kg	1000			
2-Nitrophenol	MD	ug/kg	240			
-Nitrophenol	ND	ug/kg	320			
2,4-Dinitrophenol	ND	ug/kg	1200			
F. Dimitmo o manal	ND	ug/kg	1500			
6,6-Dinitro-o-cresol	ND	ug/kg	1700			
Pentachlorophenol Phenol	ND	ug/kg	700			
	ND	ug/kg	840			
Cresol, Total	ND	ug/kg	720			
4,5-Trichlorophenol	ND	ug/kg	280			
,6-Dichlorophenol	ND	ug/kg	480			
senzoic Acid senzyl Alcohol	ND ND	ug/kg ug/kg	40 <b>0</b> 0 58 <b>0</b>			
URROGATE RECOVERY		- •				
-Fluorophenol	35.0	8				
henol-d6	41.0	•				
itrobenzene-d5	88.0	· &				

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

Laboratory Sample Number: L9509693-02

PARAMETER	RESULT	TRITO				
		UNITS	RDL	REF	METHOD	DATES
Semi-volarilo						PREP ANA
Semi-volatile Organics by	SC/MS conti	nued		77.72 <b>.</b> 44	8270	21-Dec 2
2-Fluorobiphenyl	82.0	ş			n in her in the state of the setting	ು ಸಾನಿ <b>ಸಿಕ್</b> ನಿಖ <b>ಕಲ</b> ್ಲಿ
2,4,6-Tribromophenol	117.	ş				
4-Terphenyl-d14	118.	\$				
Polychlorinated Biphenyls		Steppe Williams gro	o di Indaeserra ya			
,	San San Barrell Burker (1995)			(A)	8080	21-Dec 2
Arochlor 1221	ND	ug/kg				
Arochlor 1232	ND	ug/kg	250			
Arochlor 1242/PCB 1016 Arochlor 1248	ND	ug/kg	250			
Arocator 1248	ND	ug/kg	250			
Arochlor 1254	ND		250			
Arochlor 1260	460	ug/kg	250			
Arochlor 1262	ND	ug/kg	250			
Arochlor 1268	ND	ug/kg	250			
•	ND	ug/kg	250			
SURROGATE RECOVERY						
2,4,5,6-Tetrachloro-m-xylene						
ecachlorobiphenyl	79.0	*				
reactiforopropuenAT	92.0	ક				
rganochi						
rganochlorine Pesticides				Orași de Colonia de La	Canada Company	•.
elta-BHC	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	ment of Stoppies (Sept. 1997) in the sept. Stoppies		########## <b>E</b>	080	21-Dec 22
indane	ND	ug/kg	50.			
lpha-BHC	ND	ug/kg	50.			
eta-BHC	ND	ug/kg		•		
eptachlor			50.			
	ND		50. 50			
Jania Jania	ND ND	ug/kg	50.			
ldrin		ug/kg ug/kg	50. 50.			
ldrin eptachlor epoxide	ND ND	ug/kg ug/kg ug/kg	50. 50. 50.			
ldrin eptachlor epoxide udrin	ND ND ND	ug/kg ug/kg ug/kg ug/kg	50. 50. 50.			
ldrin eptachlor epoxide ndrin edrin aldehyde	ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50.			
ldrin eptachlor epoxide ndrin ndrin aldehyde ndrin ketone	ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50.			
ldrin eptachlor epoxide ndrin ndrin aldehyde ndrin ketone eldrin	ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50.			
ldrin  pptachlor epoxide  idrin  idrin aldehyde  idrin ketone  eldrin  4'-DDE	ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50.			
ldrin  pptachlor epoxide  idrin  idrin aldehyde  idrin ketone  eldrin  4'-DDE  4'-DDD	ND ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50.			
ldrin  pptachlor epoxide  idrin  idrin aldehyde  idrin ketone  eldrin  4'-DDE  4'-DDD	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50.			
ldrin eptachlor epoxide adrin drin aldehyde adrin ketone eldrin 4'-DDE 4'-DDD	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50.			
ldrin eptachlor epoxide adrin drin aldehyde adrin ketone eldrin 4'-DDE 4'-DDD 4'-DDT dosulfan I	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50.			
ldrin eptachlor epoxide adrin drin aldehyde adrin ketone eldrin 4'-DDE 4'-DDD 4'-DDT dosulfan I dosulfan II	10	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50.	- ,		
ldrin eptachlor epoxide ndrin ndrin aldehyde ndrin ketone eldrin 4'-DDE 4'-DDD 4'-DDT dosulfan I dosulfan sulfate		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50.			
ldrin eptachlor epoxide ndrin ndrin aldehyde ndrin ketone eldrin 4'-DDE 4'-DDD dosulfan I dosulfan sulfate thoxychlor	10	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50.			
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ldrin eptachlor epoxide adrin adrin aldehyde adrin ketone eldrin 4'-DDE 4'-DDD 4'-DDT dosulfan I dosulfan II dosulfan sulfate thoxychlor xaphene lordare  RROGATE RECOVERY	866666666666666666666666666666666666666	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	50. 50. 50. 50. 50. 50. 50. 50. 50. 50.			
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA 77985 Eight Walkup Drive CHAIN OF CUSTODY RECORD Westhorough, MA 01581-1019 Analytical Laboratories, Inc. 508-898-9220 FAX 508-898-9193 and ANALYSIS REQUEST RECORD Company Name: Laudlan Project Number: Project Name/Location: Dry Well Excavation Date Received in Lab P.O. Number: MOQXM Project Manager: Dave Danis 1509693 PAX No.: Container Codes Method Preserve. P = Plasto Y = Vial C= Cube G = Class MATRIX / SOURCE CODES ( number of containers) MW = Monitoring Well RO = Runoff O = Outlat A = Arriber Glone W = Well LF = Landfill B = Bacteria Container L = Lake/Pond/Ocean I = Influent E = Effluent DW = Drinking Water ALPHA O=Other R = River Stream Sulfuric H C1 Other Solubles SG = Sludge B = Bottom Sediment Lab# Sampling Containers Sample I.D. X1 = Other\_ ( Lab Use Oply ) (number/type) X2 = Other. Date Time Analysis Requested 9693 47133-06 ſρ ABN, TRURAS 8260, TPHIR 午5) 47/39-6 TCLP-PURAR ABN, TON-IR, PH, Flish, Konot Someter's Signature Date NUMBER IBANSEERS HELINGUISHED BY TRANSFERS ACCEPTED BY DATE TIME ADDITIONAL COMMENTS: BILL: LAIDLAW 2 3

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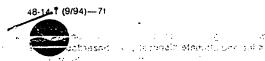
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20. Facility Owner or Operator: Certificat Printed Typed Name	ion of receipt of hazardous materials covere Signature 19	ed by this manifest exce	pt as noted in them '	yo. Day Yea.

Josile Number: BW9113 Wangland, M.	Manifest Doc. No.: 000000000000000000000000000000000000
nis waste a non-wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater? (See 40 CFR 268.2) Check ONE: Non-Wastewater or a wastewater o	

Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subdivision, or check NONE if the waste code has no subdivision. Also check which treatment standards apply. Spent solvent and California List treatment standards are listed on the back of this form. If F039, multi-source leachate applies, those standards must be attached by the generator.

R E	4. US EPA HAZARDOUS	5. SUBDIVISION		<ol> <li>APPLICABLE TREATMENT STANDARDS</li> </ol>			7. HOW MUST THE WASTE
F	WASTE CODE(S)	ENTER THE SUBDIVISION DES IF NOT APPLICABLE SIMPLY CHECK NONE		PERFOR BAS	APPLICABLE	6.b - SPECIFIED TECHNOLOGY: IF APPLICABLE ENTER THE 40 CFR 268.42- TABLE 1 TREATMENT CODE(S)	BE MANAGED? ENTER THE LETTER FROM BELOW
		DESCRIPTION	NONE	263.41(a)	268.43(a)	268.42:21	
1	PCBI		IV				Ė
1.5	WA02		id				E
3	D006		Sign				A
4			<u> </u>				
5					<u> </u>		
6					1		
7							
8		`		ļ			
9				<u> </u>			
10	1			Į.	1	ĺ	1

MUST THE WASTE BE MANAGED? In column 7 above, enter the letter (A, B1, B2, B3, C, or D) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B2, B3, or D, you are making the appropriate certification as provided below.

#### A. RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268 Subpart D. 268.32, or RCRA Section 3004(d).

#### **B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS**

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

# B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

#### B.3 GOOD FAITH ANALYTICAL CERTIFICATION - FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information. I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264 Subpart O or Part 265 Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a faise certification, including the possibility of fine and imprisonment."

#### C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 7 above

#### D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I have determined that this waste meets all applicable freatment standards set forth in 40 CFR Part 268 Subpart D, and all applicable prohibition, levels and of the Section 268.32 or RCRA Section 3004(d), and therefore, can be land disposed without further treatment. A copy of all applicable treatment standards and specified treatment methods is maintained at the treatment, storage and disposal facility named above. The certify under penalty of law that I personally have examined and arm familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth on 40 CFR 268.32 or RCRA section 3004(d). The between that the information is submitted is true, accurate and complete. I am aware that there are significant penalties for submitting false certification, including the prosphility of a fine and improvement."

#### SUMASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is I newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

hereby certify	that all informat	ion submitted in this	and all associated do	cuments is complete	e and accurate.	to the best of m	y knowledge and information
· /	TIARO	Vuma		Technica	.1 <	· 11.0+-	110191

Dwos	PCB	SHIPMENT WO	ORKSHEET	
Generator N	ame: Rayth	uan Co	EPA ID# W	
Address:	430 Br	aster Post	ZJP.O.#	D440 682 2
	<u> </u>	ral, MA 017-	Nanifest#	1 × 8 731
Contact:	_ Grace	Husery		92-
Phone:		10-2729	-·	725
		PCB INFORMATI	TOW	
Drum #	Weight (kg)			
		Service Date	Contents	Disposal Method
Brogismoc		12/18/95	PCBSoil	
· .			-	laufoll
			-	
		·		
		. 1		-
			<del>                                     </del>	+
ADDIT	CONAL INFORMAT:	ION FOR CAPAC	LITORS/TRANSFOR	Mark
DT UIII # (4)	WW.Unit			
	Dimension	Yes/No	Manufacturers Serial#	Pallet Or Drum?
		•		·

# 20 yard roll-off



## **Determination of Underlying Constituents**

	430 Boston Post RJ
Generator Na	ame: Raytheon Co. Location: Wayland, MS
Waste Name	: PCB Soil / Studge [DW 05] Waste Codes: PCB 1 MOZ
EPA ID #: _	MAD 990 685 554 Profile #:
Ignitable Subc pesticides and which are reas Table UTS - L wastes are no underlying con	with final Land Disposal Restriction regulations published on May 18, 1993 and September 18 bus wastes which exhibit the characteristics of: D001 (inpitability, except for D001, High TO ategory, TOC > 10%); D002 (corrosivity); and D012 through D043 (toxicity characteristic for organics) must be treated to remove the characteristic and for all "underlying constituents conably expected to be present in the waste at levels above those listed in 40 CFR Part 268.48 (Iniversal Treatment Standards, at the point of generation of the waste. Generators of thes were responsible for monitoring and identifying, through analysis or documentable knowledge, a instituents reasonably expected to be present in the waste above the UTS level. Waste characteristics of D004 through D011 (toxicity characteristic for metals) are not affected by this
generators wh	imply with the requirements of these rules, Laidlaw Environmental Services is requesting a ose wastes exhibit one or more of the affected characteristics to review the Universal Treatment e on the back of this form and check the statement which is appropriate for the waste material
₩.	I certify that this waste does not contain any of the "underlying constituents" indicated in 4 CFR Part 268.48, Table UTS. This certification is supported by:  Analytical Data (Please provide);  Generator Knowledge.
	I certify that this waste meets the Universal Treatment Standards for all "underlying constituents" reasonably expected to be present in this waste. (Please provide analytical data supporting this certification).
<b>C</b>	I'notify that this waste <u>does not</u> meet the Universal Treatment Standards for the following "underlying constituents" and must be treated before this waste can be land disposed. (Please list all applicable legend numbers from the table provided on the back of this form).
Frint Name:	Grace Hwang Signature: Juang Technical Specialist Date: (116196

							8700 100ri-		00	ر. م	.1.1.	المملا	,
Generator Name: Ro	mtheau	<u>_@</u>		Location		<del>2000</del>	Junel, MA	Waste Name:_	<u> </u>	صر د.	. ( ) .	المماد	<u> </u>
Profile #:			D#:		0999		SSIM Laidlaw Cat						
CHARACTERISTICS C 261.23 and 261.24.	OF HAZARDOU	S WASTE:	Indic	ace if this	waste co	ontains a	my of the following charac	teristics based o	o criteria	mandate	d by 40	CFR 261.	21, 261.22
				~	ock Ooe)			Regulatory				(Check One)	
Constituent	Regulatory Threshold Level	(Check Yes	One) No	Scientific	Generator Knowledge		Constituent	Threshold Level	(Chec Yes	k One) No	Scientifi Data	Koowledge	
DOM ((primbility)**	<140°F		ヹ				DOZ3 e-Cresol	200.0 ppm		<u> </u>			
DOOZ (Caraivity)	≤2 or ≥12.5	_	アギン			_	DOZ4 as-Cresol	200.0 ppm		7_			_
DOOR (Reactivity)			Ţ				DOZS p-Cresol	200.0 ррт	-	4-		_	-
DOO4 (Arsenic)	5.0 ppm		<del>-</del>		-		D026 Cresol	200.0 ppm	_	关			
DOOS (Barism)	100.0 ppm		_		_		DOZT 1,4-Dichloroberzene	7_5 ppm	_	<u> </u>	_		-
D006 (Cachien)	1.0 ppm		ጅ				DOZS 1,2-Dichleroschane	0.5 ppm		£	_	_	
DOOT (Caronium)	5.0 ppm		エエエ	_		_	D029 1,1-Dichlorochans	0.7 ppm	_	<del>-}-</del>		.—	_
D008 (Lead)	5.0 ppm			_			D030 2,4-Dinierotoluene	0.13 ppm		<del>*</del>		_	_
D009 (Mc==37)	0.20 ppm		<u>×</u>	_			DOST Haptachlor (set ics aposite)	0.008 ppm		<del>X</del>	_	_	_
DOIG (Seitzium)	1.0 ppm		ڪ				D032 Herachlorobernane	0.13 ppm	_	×			
D011 (Silver)	5.0 ppm		Ψ_				DOS Resechtorobusations	O.J ppm		<b>≯</b> ⊆		_	
D012 Each	0.02 ppm		*				DOS4 Hexachiorochune	3.0 ppm	_	<del>_</del>		_	-
D013 Lindox	0.4 ppm		<u>+</u>		_		DOSS Mestryl estryl besone	200,0 ррга	_	¥	_	_	
DOI4 Metasychlor	10.0 ppm		1			—	D036 Nigoberzens	2.0 ppm		×	_	_	
DOIS Temphere	0.5 ppa		支		<del></del> :		D037 Pesurachlorophenol	100.0 ppm	_	¥_	_	_	_
D016 2,4-D	10.0 ppm		7			—	D038 Pyridine	5.0 ppm		×			-
DOI7 245-77 (Silves)	1.0 ppm		4			_	DOIS Tetrachioroshylene	0.7 ppm	_	¥			_
DOIS Because	0.5 ppm		<u>4</u> 4 <u>1</u>		<del></del>		D040 Trichlorochylene	0.5 ppm		¥			
DOIS Carton Tetrachloride	0.5 ppm	_	Ë	_	_	_	DO41 2.4.5-Trichlorophenol	400.0 ppm		Ž			_
DOD Clorane	0.03 ppm		Ϋ́		_		DO42 2.4.6-Trichlorophenol	2.0 ppm		<u>₹</u>	_	_	
DILI Character	100'0 bbw		杗		_	<del></del>	DO43 Vieyt Chleride	0.2 ppm		<del></del>	_		
DUIZ Caleroform	6.0 ppm		<u>}</u>		_		•						
Indicate the expected con	centrations of th	e following		eters for	this wast	ie stream		OD (ppm)	•	•			
Thallium (ppm)	Ammoni	y (bbm) —	_		OC (ppm)				de (ppm)	•			
TPH (ppm) TC  Does this waste contain a	LP-TPH (ppm) _ iny of the follow	ing: Pestic		(ppm) _ (erbicide	_	0il (%) zins? P	<del></del>	_ No	 				
If YES, indicate compou	inds and concent	20002					dous wastes coded in 40 C	CFR 261.31, 26	1.32, 200	261.33	by inclu	ding the a	ppropriat
EPA bazzrdous waste coo			_			•							<del>-</del>
							coded in 40 CFR 261.31,		261.33.				
I certify that this w	aste <u>does not</u> con	nain any lis	ted baz	cardous v	vaste(s) C	oded in	40 CFR 261.31, 261.32 a	nd/or 261.33.		T006 -			ament of
I certify that the tre					sted haza conversio	n costin	raste(s) coded in 40 CFR 2 ng wastewaters).	(61.31 and/or 20	1.32 (1.6	. F000 s	nuages n	OM Me de	aune or
SORBENT NOTIFICAT					. <b>6</b> 1!	. د ا	either adsorption or absorp	orion or both	Sorti mes	ins to eit	her adso	rb. absort	, or both)
b-the waste streams indic	cated above.												
I <u>bave</u> added sorben waste streams indicated a	nts (i.e. material t bove. I certify t	that is used hat any sor	to soal bent ag	k up free ents add	liquids b ed to this	waste a	radsorption or absorption, are considered nonbiodegra	or both. Som	ed in 40	CFR Sec	tion 264	.314/265.	314.
REPRESENTATIVE SAI	MPLE CERTIFI	CATION:	Please	initial be	iow.								
I certify that the st Physical/Chemical Metho	ample presented ds SW246, USI	sençen zi EPA. Offic	ntative to of Se	of the v	waste and te, Wash	i bes b ingwa, i	een collected in accordan D.C. 20460.	ce with Test	Methods	for the	Evaluati	on of Sol	id ₩ <i>xs</i> =.
GENERATOR CERTIFIC hereby certify that all in Laidlaw Environmental Son the representative same	nformation submi ervices (TS) Inc.	to conduct	Decess	and all a ary testi	mached d	exberre jocrmen	us are true and accurate.  to properly complete the f	In the event that form, and to mo	t this for dify my	m is net profile b	fully co used upo	mpleted, I n the analy	authorize vical data
Print Name GYO C	E HW	anu si	gnatur	S REOL	TIRED FO	OR EAC	Tide	Special AW ENVIRON	MENTAI	Date_ L SERVI	(// CES (T	<ul><li>₱/ / ℃</li><li>5), INC.</li></ul>	)
				J.			• - •						
		•											
•							•						



## Waste Management, Inc.

CWM Chemical Services, Inc. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107

Phone 716/754-8231

Federal EPA ID: NYD049836679

RAYTHEON ELECTRONIC SYSTEMS ATTN: GRACE HWANG M/S 4-2-263 ATTN: MANIFEST SECTION MAD990685554 528 BOSTON POST RD SUDBURY MA 01776

### CERTIFICATE OF DISPOSAL

CWM Chemical Services, Inc. has received waste material from RAYTHEON ELECTRONIC SYSTEMS ATTN: GRACE HWANG M/S 4-2-263 on 01/19/96 as described or Hazardous Waste Manifest number NYB7393725 Sequence number 01. CWM Chemical Services, Inc., hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: BW9113 CWM Tracking ID: 8144260401

CWM Unit #: 1\*0
Disposal Date: 01/23/96

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

Kathlen Q. Morrison

KATHLEEN D. MORRISON RECORDS DEPT. SUPERVISOR Certificate # 54464 01/29/96

DATE	P.E. BURKE MOVING & STORAGE CORP.  AGENT FOR UNITED VAN LINES  124 PROSPECT ST. • WALTHAM, MA 02154 • Ph. (617) 894-1900	08063			
CUSTOMER'S NAME	B/L NO				
ORIGIN DESTINATION					
CARRIER					
1 Line of the state of the s	COSED ID GROSS	Roll-of			
	Ib TARE – DRIVER ON OFF	- ow-os			
DRIVER W		50 me			
WEIGHER Africal	anal TRAILER NO. RO26	(4 hyt)			
WEIGHED ON A FAIRBANKS SCALE	FEE				

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