

FINAL REMOVAL ACTION REPORT AREE 63BE FORT DEVENS, MASSACHUSETTS

Prepared for:

U.S. Army Corps of Engineers
New England Division
Waltham, Massachusetts
Contract Number DACW45-89-D-0506

Prepared by:

OHM Remediation Services Corp. Hopkinton, Massachusetts Project Number 16208



FINAL REMOVAL ACTION REPORT AREE 63 BE FORT DEVENS, MASSACHUSETTS

Prepared for:

U.S. Army Corps of Engineers New England Division Waltham, Massachusetts Contract Number DACW45-89-D-0506

Prepared by:

OHM Remediation Services Corp. Hopkinton, Massachusetts Project Number 16208

February 15, 1996

TABLE OF CONTENTS

Section	Title	Page No.
EXECUT	ΓΙVE SUMMARY	E-1
1 0 INTR	RODUCTION	1-1
	1.1 Site History and Background	그리고 하다 이 이 이 그들이 그리고 있습니다. 이 이 이 이 이 이 이 이 이 이 이 이 이 이 있다고 있다.
	1.2 Site Conditions	
	1.3 Previous AREE 63BE Investigation & Remedial Activities	
	1.4 AREE 63BE Action Memorandum	
2.0 PETF	ROLEUM-CONTAMINATED SOIL REMOVAL	
2	2.1 Site Preparation Activities	
2	2.2 Building Demolition & Asbestos Removal	2-1
2	2.3 Excavation and Soil Screening Activities	
	2.4 Soil Boring Investigation	
	2.5 Confirmation Sampling	
	2.6 Waste Characterization & Disposal	
2	2.7 Quality Assurance\Quality Control	
	2.7.1 Sample Collection Quality Control	2-17
	2.7.2 Laboratory Quality Control	2-17
2	2.8 Backfilling and Site Restoration	2-18
3.0 CON	ICLUSIONS	3-1
	A TOTAL OF TABLES	

LIST OF TABLES

Table .	Title Page No
2-1	Soil Sample Screening Results
2-2	Soil Sample Results - Soil Boring Investigation
2-3	Confirmation Soil Sample Results

TABLE OF CONTENTS

(continuation)

LIST OF FIGURES

Figure	Title	Page No.
1-1	Site Location Map	1-3
1-2	Site Plan	1-4
2-1	Soil Boring Location Map	2-14
2-2	Confirmation Soil Sample Location Map	2-16

LIST OF APPENDICES

Appendix	Title	
A	Asbestos Air Sampling Results	
В	Asbestos Transportation and Disposal Documentation	
C	Demolition Debris Transportation and Disposal Documentation	
D	On-site Laboratory Documentation	
E	On-site Laboratory Soil Boring Results	
F	ASC Analytical Report - Soil Boring Results	
G	ASC Analytical Report - Confirmation Samples	
H	Excavated Soil Characterization and Disposal	
	 ASC Analytical Report - Waste Characterization Soil Samples Material Shipping Records 	
I	Chemical Quality Assurance Report	
J	Site Photographs	

LIST OF ACRONYMS AND ABBREVIATIONS

ABB Environmental Services, Inc.

ACM Asbestos Containing Material

AREE Area Requiring Environmental Evaluation

BNA Base Neutral/Acid Extractable

BTEX Benzene, Toluene, Ethylbenzene, and Xylene

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EMO Fort Devens Environmental Management Office

NPL National Priorities List

MADEP Massachusetts Department of Environmental Protection

MCP Massachusetts Contingency Plan

MEP Master Environmental Plan

NED US Army Corps of Engineers New England Division

PAH Polycyclic Aromatic Hydrocarbons

PID Photoionization Detector

RECON Environmental Corporation

SA Study Area

SARA Superfund Amendments and Reauthorization Act

SI Site Investigation

SVOCs Semivolatile Organic Compounds

TPHC Total Petroleum Hydrocarbons

TRC TRC Environmental Corporation

USAEC U.S. Army Environmental Center

USACE United States Army Corps of Engineers

UST Underground Storage Tank

VOC Volatile Organic Compounds

EXECUTIVE SUMMARY

Fort Devens was placed on the National Priority List (NPL) on December 21, 1989, under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, Superfund Act) as amended by the Superfund Amendments and Reauthorization Act (SARA). Subsequently, under Public Law 101-510, the Defense Base Realignment and Closure Act of 1990, Fort Devens was selected for cessation of operations and closure. In accordance with these acts, investigations have been conducted at numerous locations at the base, termed Areas Requiring Environmental Evaluation (AREEs), to determine if residual contamination is present. AREE 63 sites, the collective designation for sites from which USTs were previously removed, were identified as potential areas of contamination. AREE 63BE is the specific designation given to the area affected by the 1,000 gallon underground storage tank (UST) associated with Building 2290. Information gathered through site studies indicated petroleum contamination in the subsurface soils in the area. This report documents the historical information and investigation results leading to the recommendation to remove soil, and the removal actions taken at AREE 63BE.

AREE 63BE is located in the central portion of the Main Post near Queenstown, Givry, and Quebec Streets. The UST associated with Building 2290 was removed in January 1992 along with 25 cubic yards of contaminated soil. Additional contaminated soil was removed in August 1992, after which time, the excavation was lined and backfilled. Elevated TPH concentrations remained in the excavation subsequent to the removal action conducted in 1992, which was confirmed during the Supplemental Site Evaluation conducted in 1994.

The New England Division (NED) of the United States Army Corps (USACE) contracted OHM Remediation Services Corporation (OHM) to demolish Building 2290 and remove the remaining contaminated soil. OHM demolished Building 2290 prior to removing 4000 tons of contaminated soil from AREE 63BE. When it became evident that contamination extended under the streets adjacent to the Building 2290 property, the Army directed OHM to stop further excavation and to conduct a soil boring investigation to determine the lateral extent of contamination. Based on the results of the soil boring investigation, the Army decided to backfill the excavation. TPH concentrations remaining at the completion of excavation activities were less than 2500 mg/kg. Confirmation soil samples were collected from the excavation bottom and sidewalls in order to document existing conditions prior to backfilling. The excavated soil has been placed into the temporary soil storage area at Building 202, until it can be utilized as cover material in the Consolidation Landfill proposed for construction at Fort Devens. Further investigation will be conducted at the site to better define the lateral extent of soil contamination, and to assess potential impacts to groundwater.

SECTION 1.0 INTRODUCTION

Fort Devens was placed on the National Priority List (NPL) on December 21, 1989, under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA; Superfund) as amended by the Superfund Amendments and Reauthorization Act (SARA). Subsequently, under Public Law 101-510, the Defense Base Realignment and Closure Act of 1990, Fort Devens was selected for cessation of operations and closure. This report has been prepared as part of the U.S. Department of Defense Base Realignment and Closure program to assess the nature and extent of contamination associated with site operations at Fort Devens. This report contains a summary of activities conducted under CERCLA at AREE 63BE.

In conjunction with the Army's Installation Restoration Program, Fort Devens and the U.S. Army Environmental Center (USAEC; formerly the U.S. Army Toxic and Hazardous Materials Agency) developed a Master Environmental Plan (MEP) in 1988. The MEP consisted of assessments of the environmental status of Study Areas (SAs), specified necessary investigations, and provided recommendations for response actions with the objective of identifying priorities for environmental restoration at Fort Devens. Areas Requiring Environmental Evaluation (AREEs) were identified in the MEP and appropriate investigations were undertaken to assess the need for removal actions. The New England Division of the U.S. Army Corps of Engineers (NED) was tasked with removal efforts at the base. This report documents the historical findings leading to the response action recommendation and describes the measures taken at AREE 63BE. This is not a closure report because cleanup goals have not yet been achieved at this site.

1.1 Site History and Background

AREE 63BE is located in the central portion of the Main Post near Queenstown, Givry and Quebec Streets, and consists of soils affected by leakage from a 1,000 gallon underground storage tank (UST; UST 28) associated with Building 2290. Refer to Figure 1-1 for the site location and Figure 1-2 for the site plan. UST 28 was located on the northwest side of the building and was used for the storage of No. 2 fuel oil. The oil was used to heat the building.

1.2 Site Conditions

The area in which AREE 63BE is located is largely blanketed by unconsolidated surficial deposits of glacial and post-glacial origin. The surficial glacial units consist of till, deltaic deposits of glacial Lake Nashua, and glacial stream deposits. AREE 63BE is located on the east side of a bedrock high which Engineering Technologies Associates, Inc. has modeled as a groundwater recharge area. According to the model, groundwater at AREE 63BE flows generally eastward toward Mirror Lake, then southward and eventually westward to the Nashua River. Shallow soil in the area of the UST was likely artificial fill associated with the UST and building, whereas the deeper material shows characteristics of a glacial till.

1.3 Previous AREE 63BE Investigation & Remedial Activities

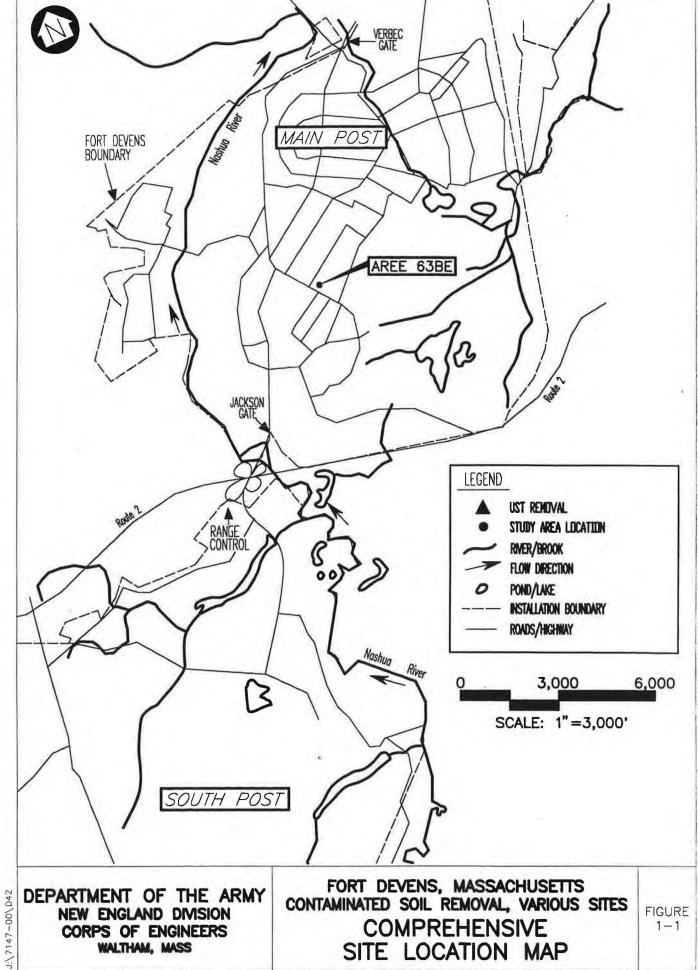
ATEC Inc. removed the UST in January 1992, along with approximated 25 cubic yards (cy) of contaminated soil. Laboratory results indicated TPH concentrations ranging from 17 ug/g to 2,350 ug/g. Additional contaminated soil was removed in August of 1992, at which time the excavation was reportedly enlarged to an area of 18 by 25 feet and to a depth of 9.5 feet. Six confirmation samples were collected at that time to

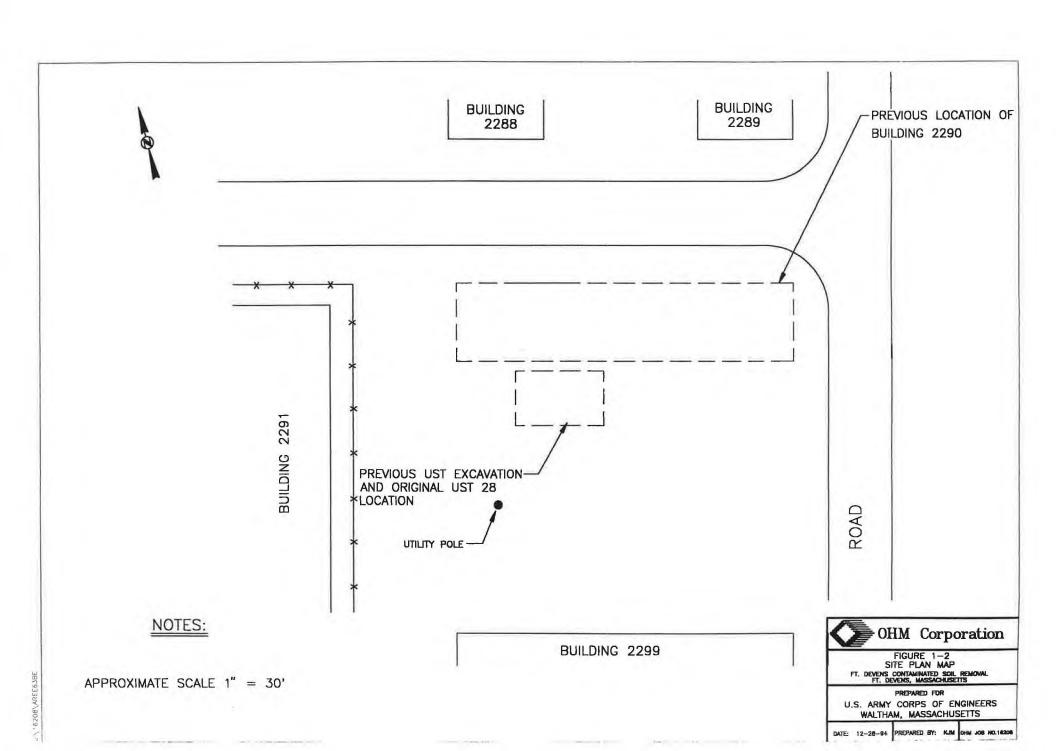


document remaining TPH concentrations in the soil. Laboratory results indicated that TPH was present in the bottom of the excavation at concentrations in excess of 4,000 ug/g. The excavation was lined with polyethylene sheeting and backfilled. ABB Environmental Services, Inc. (ABB) confirmed the presence of petroleum contamination at the approximate depth of groundwater in their Supplemental Site Evaluation conducted in 1994.

1.4 AREE 63BE Action Memorandum

ABB prepared an Action Memorandum, under CERCLA, for AREE 63BE in October of 1994. The Action Memorandum documents the Army's decision to perform a removal action for the Leaking Underground Storage Tank (LUST) site associated with Building 2290.





SECTION 2.0 PETROLEUM-CONTAMINATED SOIL REMOVAL

OHM was contracted by the USACE NED to demolish Building 2290, excavate the petroleum-contaminated soil remaining at AREE 63BE, coordinate disposal of the excavated material and restore the site by backfilling and seeding.

2.1 Site Preparation Activities

Pre-excavation activities were conducted at AREE 63BE to ensure that contaminants would be contained at the site and to prevent the general population from coming into contact with contaminants exposed through excavation activities. An exclusion zone was demarcated using orange fencing, and staging cells were constructed for temporary storage of contaminated soils. Sand berms were constructed at the perimeter of each staging cell and the cells were double lined with polyethylene sheeting. Clean soil that had been placed in the excavation following previous excavation activities in 1992 was removed and stockpiled.

2.2 Building Demolition & Asbestos Removal

OHM demolished Building 2290 after it was established that contamination extended underneath the building foundation. Building 2290 was one story, approximately 106 feet by 26 feet, and of wood frame construction with vinyl siding. Due to the age of the structure (World War II era), asbestos containing materials (ACM) were present in the building. OHM conducted the asbestos abatement prior to demolishing the building. Recon Environmental Corporation (Recon) was subcontracted to perform the air monitoring during the abatement and TRC Environmental Corporation (TRC) performed the laboratory analyses. Refer to Appendix A for Asbestos air sample results. OHM removed approximately 5.5 cubic yard boxes of ACM from Building 2290 and shipped them to Chicopee sanitary landfill in Chicopee, Massachusetts. Refer to Appendix B for Transportation & Disposal Documentation for the ACM.

Upon completion of the asbestos abatement, OHM demolished Building 2290. Waste Management of Central Massachusetts transported approximately 120 tons of building debris to the P.T.R.T. Inc. sanitary landfill in Marlboro, Massachusetts. Refer to Appendix C for Transportation & Disposal Documentation for the demolition debris.

2.3 Excavation and Soil Screening Activities

Excavation of contaminated soil was initiated on September 27, 1994 after the clean soil used for backfilling the previous excavation in 1992 was removed and stockpiled. Initial excavation work was conducted to determine if it was necessary to demolish Building 2290. Contamination was found in the area of the foundation supports, and based on this information, the Army determined that demolition of the building was necessary. Excavation resumed on November 2, 1994, subsequent to the building demolition. Samples were collected during excavation and screened for TPH on site, in order to guide the excavation and segregate clean soil from contaminated soil. The clean up goal for TPH was 500 ug/g, which is the S-1, GW-1 standard under the Massachusetts Contingency Plan (MCP). The decision to continue excavating was based on the field screening results for TPH. Soil samples were relinquished to the on-site laboratory immediately following collection and screening results were generally provided to the site supervisor within two hours. Excavation



would only continue in areas where screening results indicated concentrations of TPH in excess of the site action level.

The excavation extended into groundwater and consequently, dewatering was required during the removal action. Groundwater was pumped into Frac tanks located in the area of the excavation. The Frac tanks were sampled after they were filled and analyzed for TPH, lead, and BTEX compounds to determine whether or not the water needed to be treated prior to discharge. Water which exceeded the discharge levels for these compounds, established under OHM's discharge permit for their treatment system on Lake George Street, were treated and discharged. Water which met the discharge criteria was discharged at a storm drain on site after an additional NPDES permit was obtained for this location.

Excavation continued under the guidance of the field screening program until December 7, 1994 when it became evident that contamination extended under the streets adjacent to the Building 2290 lot. These screening sample results indicate that contamination continues in a northerly and easterly direction. Further excavation was discontinued until a soil boring investigation could be completed to determine the lateral extent of contamination. A summary of soil sample screening results is presented in Table 2-1 and on-site laboratory raw data and reporting forms are provided in Appendix D.



Table 2-1 Soil Sample Screening Results Excavation Samples Building 2290 and AREE 63BE

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
BLDG2290B1	Excavation bottom	9/27/94	8 feet	2087
BLDG2290W1	South Excavation wall	9/27/94	15 feet	274
BLDG2290W2	South Excavation wall	9/27/94	2 feet	ND
BLDG2290W3	South Excavation wall	9/27/94	3.5 feet	ND
BLDG2290W4	South Excavation wall	9/27/94	5 feet	ND
BLDG2290W5	South Excavation wall	9/27/94	6 feet	ND
BLDG2290W6	South Excavation wall	9/27/94	8 feet	3904
BLDG2290B2	South Excavation wall	9/27/94	10 feet	3147
SBAR63BEB1	NW Excavation wall	11/2/94	10 feet	3331
SBAR63BEB2	NE Excavation wall	11/2/94	10 feet	1855
SBAR63BEB3	Excavation bottom	11/2/94	10 feet	1400
SBAR63BEW1	NE Excavation wall	11/2/94	8.5 feet	6048
SBAR63BEW2	NW Excavation wall	11/2/94	8.5 feet	1264
SBAR63BEW3	NE Excavation wall	11/2/94	9 feet	339
SBAR63BEB4	Easterly Excavation wall	11/2/94	10.5 feet	5159
SBAR63BEW4	Easterly Excavation wall	11/2/94	9 feet	85
SBAR63BEW5	Easterly Excavation wall	11/2/94	10 feet	3067
SBAR63BEW6	S. Excavation wall	11/2/94	10 feet	897
SBAR63BEW7	S. Excavation wall	11/2/94	9.5 feet	1354
SBAR63BEB5	Excavation bottom	11/3/94	14.5 feet	325
SBAR63BEB6	SW Excavation wall	11/3/94	10 feet	ND
SBAR63BEB7	SW Excavation wall	11/3/94	10 feet	1112
SBAR63BEB8	SW Excavation wall	11/3/94	10 feet	2010
SBAR63BEW8	Excavation bottom	11/3/94	13.5 feet	6472



Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEW10	SW Excavation wall	11/3/94	8 feet	196
SBAR63BEW11	SW Excavation wall	11/3/94	8 feet	2191
SBAR63BEB9	Excavation bottom	11/8/94	13 feet	ND
SBAR63BEB10	Excavation bottom	11/8/94	13 feet	ND
SBAR63BEB11	Excavation bottom	11/8/94	13 feet	64
SBAR63BEB12	NW Excavation wall	11/8/94	10.75 feet	2472
SBAR63BEW12	NW Excavation wall	11/8/94	9.25 feet	816
SBAR63BEW13	NW Excavation wall	11/8/94	8.75 feet	ND
SBAR63BEW14	S. Excavation wall	11/8/94	10.5 feet	ND
SBAR63BEW15	S. Excavation wall	11/8/94	8.75 feet	ND
SBAR63BEW16	S. Excavation wall	11/8/94	10.5 feet	8126
SBAR63BEW17	N. Excavation wall	11/8/94	9.5 feet	2714
SBAR63BEW18	N. Excavation wall	11/8/94	11.25 feet	4002
SBAR63BEW19	W. Excavation wall	11/8/94	8.75 feet	4376
SBAR63BEW20	W. Excavation wall	11/8/94	11.25 feet	4838
SBAR63BEW21	S. Excavation wall	11/9/94	10 feet	ND
SBAR63BEW22	S. Excavation wall	11/9/94	10 feet	ND
SBAR63BEW23	S. Excavation wall	11/9/94	10.67 feet	5734
SBAR63BEW24	S. Excavation wall	11/9/94	10.33 feet	222
SBAR63BEW25	S. Excavation wall	11/9/94	11.33 feet	2664
SBAR63BEW26	S. Excavation wall	11/9/94	10.5 feet	320
SBAR63BEW27	E. Excavation wall	11/9/94	11.75 feet	4711
SBAR63BEB13	Excavation bottom	11/9/94	13 feet	578
SBAR63BEB14	N. Excavation wall	11/9/94	13.67 feet	422
SBAR63BEW28	E. Excavation wall	11/9/94	11.25 feet	1333
SBAR63BEW29	E. Excavation wall	11/9/94	12.5 feet	2738
SBAR63BEW30	S. Excavation wall	11/16/94	12 feet	ND



Sample ID	Sample Location	Sample Date Sample Depth (ft)		TPH Result (mg/kg)
SBAR63BEW32	S. Excavation wall	11/16/94	12 feet	ND
SBAR63BEW33	S. Excavation wall	11/16/94	9 feet	ND
SBAR63BEW34	S. Excavation wall	11/16/94	9 feet	ND
SBAR63BEB15	S. Excavation wall	11/16/94	13 feet	ND
SBAR63BEW35	S. Excavation wall	11/16/94	11 feet	2898
SBAR63BEB16	S. Excavation wall	11/16/94	13 feet	ND
SBAR63BEB17	S. Excavation wall	11/16/94	13 feet	ND
SBAR63BEB18	S. Excavation wall	11/16/94	13 feet	ND
SBAR63BEW37	S. Excavation wall	11/16/94	12 feet	ND
SBAR63BEW38	S. Excavation wall	11/16/94	11.5 feet	ND
SBAR63BEW39	S. Excavation wall	11/16/94	10.5 feet	1697
SBAR63BEW40	S. Excavation wall	11/16/94	N/A	1939
SBAR63BEW41	E. Excavation wall	11/17/94	11 feet	3121
SBAR63BEW42	E. Excavation wall	11/18/94	12.5 feet	ND
SBAR63BEW43	E. Excavation wall	11/18/94	12.5 feet	ND
SBAR63BEW36	S. Excavation wall	11/16/94	12 feet	ND
SBAR63BEW44	E. Excavation Wall	11/18/95	12 feet	ND
SBAR63BEW45	E. Excavation Wall	11/18/95	12 feet	4596
SBAR63BEW46	E. Excavation Wall	11/18/95	12 feet	2589
SBAR63BEB19	E. Excavation Wall	11/18/95	14.5 feet	193
SBAR63BEB20	E. Excavation Wall	11/18/95	14.5 feet	433
SBAR63BEW48	E. Excavation Wall	11/21/95	10 feet	2519
SBAR63BEW49	E. Excavation Wall	11/22/95	11.5 feet	ND
SBAR63BEW50	E. Excavation Wall	11/22/95	11.5 feet	ND
SBAR63BEW51	E. Excavation Wall	11/22/95	11,5 feet	ND
SBAR63BEW52	E. Excavation Wall	11/22/95	15 feet	205
SBAR63BEW53	E. Excavation Wall	11/22/95	14.5 feet	ND



Table 2-1 (continued) Soil Sample Screening Results Excavation Samples Building 2290 and AREE 63BE

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEW54	E. Excavation Wall	11/22/95	15 feet	971
SBAR63BEW55	W. Excavation Wall	11/22/95	13.5 feet	305
SBAR63BEW56	W. Excavation Wall	11/22/95	12 feet	574
SBAR63BEW57	W. Excavation Wall	11/22/95	15.5 feet	6318
SBAR63BEW58	W. Excavation Wall	11/22/95	12 feet	634
SBAR63BEW59	W. Excavation Wall	11/22/95	15 feet	202
SBAR63BEW60	W. Excavation Wall	11/22/95	11.5 feet	2042
SBAR63BEW61	W. Excavation Wall	11/22/95	9 feet	6840
SBAR63BEW62	W. Excavation Wall	11/22/95	9.5 feet	3680
SBAR63BEW63	W. Excavation Wall	11/22/95	10.5 feet	222
SBAR63BEW64	N. Excavation Wall	11/22/95	12 feet	ND
SBAR63BEW65	N. Excavation Wall	11/22/95	12 feet	1903
SBAR63BEW66	N. Excavation Wall	11/23/94	12 feet	903
SBAR63BEW67	N. Excavation Wall	11/23/94	12 feet	2182
SBAR63BEW68	N. Excavation Wall	11/23/94	12 feet	2200
SBAR63BEB21	Chimney Footing	11/30/94	9 feet	229
SBAR63BEB22	Chimney Footing	11/30/94	9 feet	74
SBAR63BEW69	E, Excavation Wall	11/30/94	12 feet	345
SBAR63BEW70	E. Excavation Wall	11/30/94	10 feet	725
SBAR63BEW71	E. Excavation Wall	11/30/94	8 feet	129
SBAR63BEB23	E. Excavation Wall	11/30/94	12.5 feet	837
SBAR63BEB24	Chimney footing	11/30/94	12.5 feet	366
SBAR63BEB25	Chimney footing	11/30/94	12.5 feet	2334



Sample ID	Sample Location	Sample Date	Sample Depth TPH R (ft) (mg/kg	
SBAR63BEB27	W. Excavation Wall	11/30/94	10 feet	620
SBAR63BEW72	W. Excavation Wall	11/30/94	8 feet	3415
SBAR63BEW73	W. Excavation Wall	11/30/94	8 feet	1585
SBAR63BEW74	N. Excavation Wall	11/30/94	10 feet	1303
SBAR63BEW75	N. Excavation Wall	11/30/94	10 feet	108
SBAR63BEW76	N. Excavation Wall	11/30/94	10 feet	3187
SBAR63BEW77	W. Excavation Wall	11/30/94	11.5 feet	205
SBAR63BEW68	N. Excavation Wall	11/23/94	12 feet	2200
SBAR63BEW78	W. Excavation Wall	11/30/94	11.5 feet	75
SBAR63BEW79	W. Excavation Wall	11/30/94	11.5 feet	105
SBAR63BEW80	N. Excavation Wall	12/2/94	9 feet	125
SBAR63BEW81	N. Excavation Wall	12/2/94	9 feet	794
SBAR63BEW82	N. Excavation Wall	12/2/94	8.5 feet	3690
SBAR63BEW83	N. Excavation Wall	12/2/94	8 feet	2790
SBAR63BEW84	N. Excavation Wall	12/2/94	7 feet	6187
SBAR63BEW85	N. Excavation Wall	12/2/94	7 feet	807
SBAR63BEW86	N. Excavation Wall	12/2/94	11 feet	107
SBAR63BEW87	N. Excavation Wall	12/2/94	11 feet	335
SBAR63BEW88	N. Excavation Wall	12/2/94	11 feet	65
SBAR63BEW89	NE Excavation Wall	12/7/94	9.5 feet	735
SBAR63BEB28	NE Excavation Wall	12/7/94	12 feet	55
SBAR63BEW90	NE Excavation Wall	12/7/94	9.5 feet	1789
SBAR63BEB29	NE Excavation Wall	12/7/94	12 feet	347
SBAR63BEW91	NE Excavation Wall	12/7/94	9.5 feet	1615
SBAR63BEB30	NE Excavation Wall	12/7/94	12 feet	274
SBAR63BEW92	NE Excavation Wall	12/7/94	9.5 feet	50

Table 2-1 (continued) Soil Sample Screening Results Excavation Samples Building 2290 and AREE 63BE

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEB31	NE Excavation Wall	12/7/94	12 feet	97
SBAR63BEW93	NE ExcavationWall	12/7/94	11 feet	1265
SBAR63BEW94	NE ExcavationWall	12/7/94	12.5 feet	464
SBAR63BEW95	NE ExcavationWall	12/7/94	10 feet	2209
SBAR63BEW96	W. ExcavationWall	1/5/95	5.33 feet	ND
SBAR63BEW97	W. ExcavationWall	1/5/95	5 ft-7 in	ND
SBAR63BEW98	W. ExcavationWall	1/5/95	5.5 feet	ND
SBAR63BEW99	W. ExcavationWall	1/5/95	5.5 feet	ND
SBAR63BEW100	W. ExcavationWall	1/5/95	7.75 feet	ND
SBAR63BEW101	W.ExcavationWall	1/5/95	9.25 feet	521
SBAR63BEW102	W. ExcavationWall	1/5/95	8.5 feet	1161
SBAR63BEW103	W. ExcavationWall	1/5/95	9 feet	1414
SBAR63BEW104	N. Excavation Wall	1/5/95	11.5 feet	1209
SBAR63BEW105	N. Excavation Wall	1/6/95	9.25 feet	ND
SBAR63BEW107	N. Excavation Wall	1/6/95	9 feet	5458
SBAR63BEW108	N. Excavation Wall	1/6/95	9.25 feet	1589
SBAR63BEW109	N. Excavation Wall	1/6/95	8.75 feet	123
SBAR63BEW106	N. Excavation Wall	1/6/95	9.25 feet	1436
SBAR63BEW110	N. Excavation Wall	1/6/95	5.75 feet	ND
SBAR63BEW111	N. Excavation Wall	1/6/95	5.67 feet	145
SBAR63BEW112	N. Excavation Wall	1/6/95	5.67 feet	ND
SBAR63BEW113	N. Excavation Wall	1/6/95	10.5 feet	5973
SBAR63BEB32	N. Excavation Wall	1/6/95	11.33 feet	671



Table 2-1 (continued)
Soil Sample Screening Results
Excavation Samples
Building 2290 and AREE 63BE

Sample ID	Sample Location	Sample Date	Sample Depth (ft)	TPH Result (mg/kg)
SBAR63BEB33	N. Excavation Wall	1/6/95	11.33 feet	365
SBAR63BEB34	N. Excavation Wall	1/6/95	11.33 feet	ND
SBAR63BEW114	N. Excavation Wall	1/9/95	11 feet	2000
SBAR63BEW115	N. Excavation Wall	1/9/95	10.5 feet	2728
SBAR63BEW116	N. Excavation Wall	1/9/95	11 feet	2289
SBAR63BEW117	N. Excavation Wall	1/9/95	11 feet	1607

NOTES: TPH = total petroleum hydrocarbons

mg/kg = milligram per kilogram ND = indicates TPH was not detected

J = Qualifier indicating estimated concentration below practical quantitation limit

NA = Not analyzed due to extraction problem

N/A = Not applicable

2.4 Soil Boring Investigation

OHM conducted a soil boring investigation on December 20 through 22, 1994 in order to determine the lateral extent of TPH contamination at the site. Ten borings were installed to depths ranging from 10 feet to 17 feet below ground surface (BGS). Refer to Figure 2-1 for soil boring locations. Continuous split spoon sampling was performed using a 2 inch stainless steel split spoon. All samples were screened on site for TPH and one sample from each boring was split to the off-site laboratory for TPH analysis. On-site screening results are summarized in Table 2-2 and the on-site soil sample documentation is provided in Appendix E. The ASC Report for the sample sent off site is provided as Appendix F. Four of the samples were also split with Metcalf & Eddy, the consultant for MADEP.

The results of the soil boring investigation indicated that soil contamination extends beyond the limits of the excavation in a northeasterly direction. The contamination appears to be limited to a 2-feet thick section of soil, at an approximate depth of 9 to 11 feet BGS. Based on the results of the soil boring investigation, the Army elected to backfill the excavation and conduct further investigation to determine the extent of soil contamination and the potential impact to groundwater.



Table 2-2 Soil Sample Results Soil Boring Investigation December 20,21 & 22, 1994 AREE 63BE

Sample ID	Boring ID	Sample Depth	On-site Laboratory TPH Result (mg/kg)	ASC Laboratory TPH Result (mg/kg)
AR63BEIB1A	IB1	5'-7'	ND (42)	N/A
AR63BEIB1B	IB1	7'-9'	ND (42)	N/A
AR63BEIB1C	IB1	9'-11'	ND (42)	ND (7.41)
AR63BEIB1D	IBI	11'-12'	ND (42)	N/A
AR63BEIB1E	IB1	12'-13.5'	ND (42)	N/A
AR63BEIB1F	IB1	14'-15'	ND (42)	N/A
AR63BEIB2A	IB2	5'-7'	ND (42)	N/A
AR63BEIB2B	IB2	7'-9'	ND (42)	N/A
AR63BEIB2C	IB2	9'-10'	ND (42)	ND (7.22)
AR63BEIB3A	IB3	5'-7'	ND (42)	N/A
AR63BEIB3B	IB3	7'-9'	ND (42)	N/A
AR63BEIB3C	IB3	9'-11'	ND (42)	ND (7.22)
AR63BEIB3D	IB3	11'-13'	ND (42)	N/A
AR63BEIB3E	IB3	13'-14.9'	ND (42)	N/A
AR63BEIB4A	IB4	5'-7'	ND (42)	N/A
AR63BEIB4B	IB4	7'-9'	ND (42)	N/A
AR63BEIB4C	IB4	9'-11'	ND (42)	N/A
AR63BEIB4D	IB4	11'-13'	ND (42)	N/A
AR63BEIB4E	IB4	13'-15'	ND (42)	12.6
AR63BEIB4F	IB4	15'-16.5'	ND (42)	N/A



Table 2-2 (continued)
Soil Sample Results
Soil Boring Investigation
December 20,21 & 22, 1994
AREE 63BE

Sample ID	Boring ID	Sample Depth	On-site Laboratory TPH Result (mg/kg)	ASC Laboratory TPH Result (mg/kg)
AR63BEIB5A	IB5	5'-7'	ND (42)	N/A
AR63BEIB5B	IB5	7'-9'	50	N/A
AR63BEIB5C1	IB5	9'-10'	324	287
AR63BEIB5C2	IB5	10'-11'	ND (42)	N/A
AR63BEIB5D	IB5	11'-13'	ND (42)	N/A
AR63BEIB5E	IB5	13'-15'	ND (42)	N/A
AR63BEIB5F	IB5	15'-16.3'	ND (42)	N/A
AR63BEIB6A	IB6	5'-7'	ND (42)	N/A
AR63BEIB6B	IB6	7'-9'	6J	N/A
AR63BEIB6C	IB6	9'-11'	1632	N/A
AR63BEIB6D	IB6	11'-13'	1077	621
AR63BEIB6E	IB6	13'-15'	89	N/A
AR63BEIB6F	IB6	15'-17'	193	N/A
AR63BEIB7A	IB7	5'-7'	ND (42)	N/A
AR63BEIB7B	IB7	7'-9'	8J	N/A
AR63BEIB7C	IB7	9'-11'	221	N/A
AR63BEIB7D	IB7	11'-13'	1630	1100
AR63BEIB7E	IB7	13'-15'	60	N/A
AR63BEIB7F	IB7	15'-17'	25J	N/A
AR63BEIB8A	IB8	5'-7'	ND (42)	N/A



Table 2-2 (continued)
Soil Sample Results
Soil Boring Investigation
December 20,21 & 22, 1994
AREE 63BE

Sample ID	Boring ID	Sample Depth	On-site Laboratory TPH Result (mg/kg)	ASC Laboratory TPH Result (mg/kg)
AR63BEIB8B	IB8	7'-9'	ND (42)	N/A
AR63BEIB8C	IB8	9'-11'	23J	N/A
AR63BEIB8D	IB8	11'-13'	122	140
AR63BEIB8E	IB8	13'-15'	ND (42)	N/A
AR63BEIB8F	IB8	15'-17'	ND (42)	N/A
AR63BEIB9A	IB9	5'-7'	ND (42)	N/A
AR63BEIB9B	IB9	7'-9'	ND (42)	N/A
AR63BEIB9C	IB9	9'-11'	ND (42)	N/A
AR63BEIB9D	IB9	11'-13'	915	N/A
AR63BEIB9E	IB9	13'-15'	573	415
AR63BEIB9F	IB9	15'-17'	101	N/A
AR63BEIB9G	IB9	17'-19'	ND (42)	N/A
AR63BEIB10A	IB10	5'-7'	ND (42)	N/A
AR63BEIB10B	IB10	7'-9'	518	N/A
AR63BEIB10C	IB10	9'-11'	ND (42)	N/A
AR63BEIB10D	IB10	11'-13'	600	N/A
AR63BEIB10E	IB10	13'-15'	721	431
AR63BEIB10F	IB10	15'-17'	ND (42)	N/A
AR63BEIB10G	IB10	17'-19'	ND (42)	N/A

NOTES:

TPH = total petroleum hydrocarbons

mg/kg = milligram per kilogram

ND = indicates TPH was not detected

J = Qualifier indicating estimated concentration below practical quantitation limit

N/A = Not applicable





2.5 Confirmation Sampling

Confirmation samples were collected from the bottom and sidewalls of the excavation to document the remaining concentrations of targeted compounds. A total of six confirmation samples were collected; five from the sidewalls and one from the bottom of the excavation. The sidewalls were divided into sections for sampling and the bottom sample was collected from the northeastern corner of the excavation, which is the only section of the excavation bottom that did not consist of bedrock. Composite samples consisting of up to nine subsamples were collected and analyzed for TPH and BNA compounds at ASC laboratory located in Findlay, Ohio. One subsample from each composite was submitted for analysis of BTEX compounds. Refer to Table 2-3 for confirmation sample results and Appendix G for the laboratory's analytical report. Figure 2-2 provides the sample locations making up the confirmation samples. TPH analysis was conducted by EPA Method 418.1, BNA analysis by EPA Method 8270, and BTEX by method EPA 8020. The composite and discrete samples, designated SBAR63BEEC and SBAR63BEEG respectively, were collected in triplicate for quality assurance/quality control (QA/QC) purposes. Two of the split samples were sent to ASC and the third split was submitted to the USACE QA laboratory in Hubbardston, Massachusetts.

Confirmation sample results indicate that although a relatively thin layer of contaminated soil still exists, average TPH concentrations are below the MCP S-1/GW-1 standard, with the exception of composite sample points SBAR63BEAC and SBAR63BEEC. These composite samples each consisted of numerous discrete samples collected from the northern sidewall of the excavation. The analytical results indicated TPH concentrations of 534 and 510 mg/kg, respectively for samples SBAR63BEAC and SBAR63BEEC.

2.6 Waste Characterization & Disposal

The contaminated material has been characterized for disposal. Samples were collected at 100 and 400 cy frequencies. Samples collected at the 100 cy frequency were analyzed for TPH, full TCLP parameters, and RCRA characteristics. Samples collected at the 400 cy frequency were analyzed for VOCs, PAHs, PCBs and RCRA metals. The results of these tests verified that petroleum was the only source of contamination at the site. The analytical reports for the characterizations are located in Appendix H.

The soil is currently stockpiled at the temporary storage facility located near Building. The soil will ultimately be utilized as subcover material in the Consolidation Landfill proposed for construction at Fort Devens. A total of 4036 tons of contaminated soil from AREE 63BE was transported to the temporary storage facility. Material Shipping Records for this soil are provided at the very end of Appendix H.

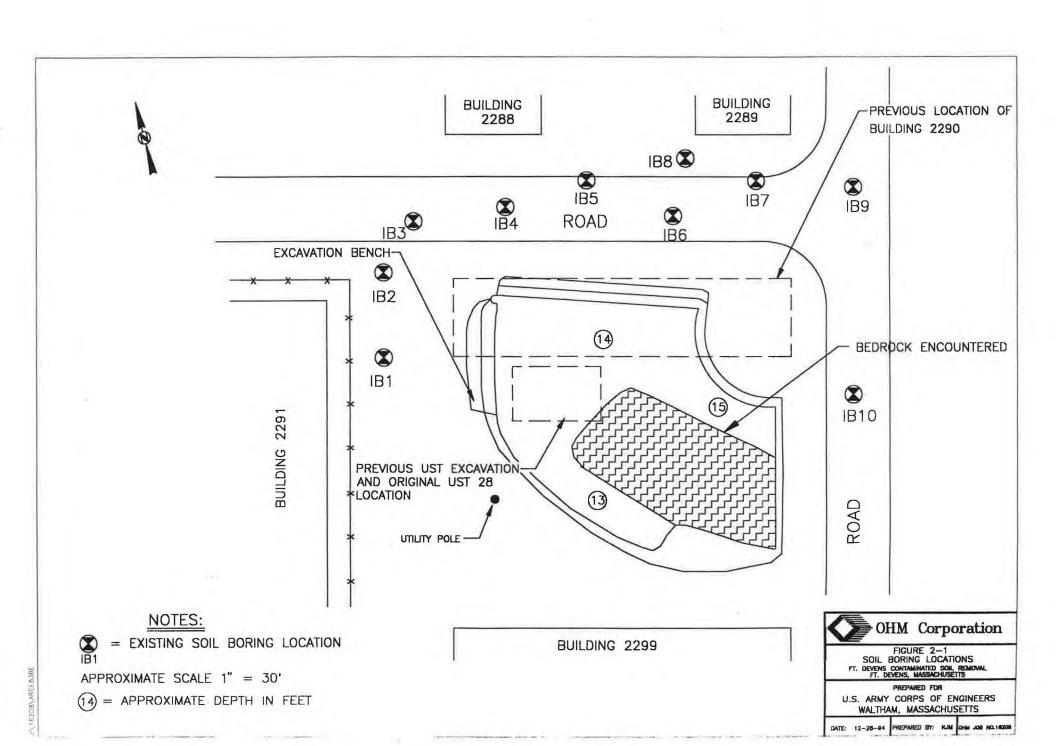


Table 2-3 Confirmation Soil Sample Results January 12 & 13, 1995 AREE 63BE

Sample ID	Sample Type	Sample Location	Total BTEX Result (mg/kg)	Total BNA Result (mg/kg)	TPH Result (mg/kg)
SBAR63BEAC	Composite	NW Excavation Wall		1.760	534
SBAR63BEAG	Grab	NW Excavation Wall	ND		
SBAR63BEBC	Composite	SW Excavation Wall		ND	10.5
SBAR63BEBG	Grab	SW Excavation Wall	ND		
SBAR63BECC	Composite	SE Excavation Wall		ND	7.91
SBAR63BECG	Grab	SE Excavation Wall	ND		
SBAR63BEDC	Composite	E. Excavation Wall		ND	57.6
SBAR63BEDG	Grab	E. Excavation Wall	ND		
SBAR63BEEC	Composite	N. Excavation Wall		1.835	510
SBAR63BEEG	Grab	N. Excavation Wall	0.808		
SBAR63BEFC	Composite	NW Excavation Wall		0.454	200
SBAR63BEFG	Grab	NW Excavation Wall	0.009		
SBAR63BEDP	Composite	E. Excavation Wall		2.261	374
SBAR63BED4	Grab	E. Excavation Wall	0.276		

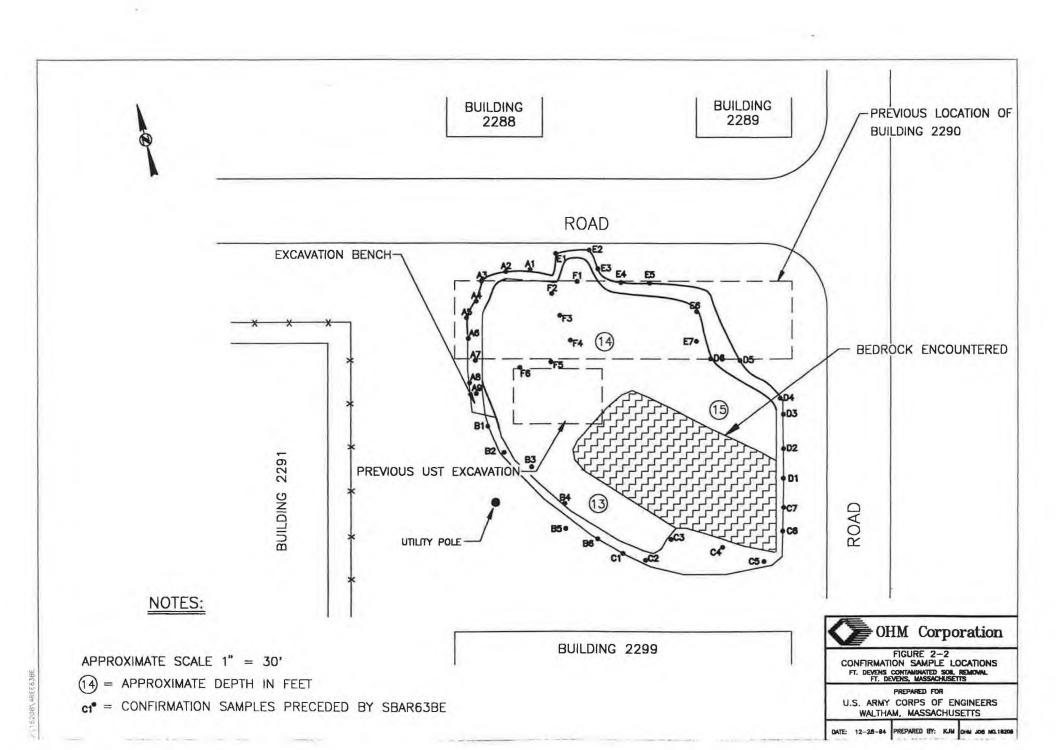
NOTES: TPH = total petroleum hydrocarbons

BTEX = benzene, ethylbenzene, toluene, xylenes

mg/kg = milligram per kilogram ND = indicates TPH was not detected

J = Qualifier indicating estimated concentration below practical quantitation limit

N/A = Not applicable



₹ OIM Coperation

PETROLEUM-CONTAMINATED SOIL REMOVAL

2.7 Quality Assurance/Quality Control

Appropriate quality assurance\quality control measures were taken to ensure the collection of representative soil samples and the generation of accurate and reproducible analytical data.

2.7.1 Sample Collection Quality Control

Soil samples were collected using either a stainless steel trowel or disposable polyethylene scoops. Composite samples were thoroughly homogenized in stainless steel sampling buckets. The sampling equipment was decontaminated using the following procedure:

- 1) Non-phosphate soap & water rinse;
- 2) tap water rinse;
- 3) distilled water rinse;
- 4) 10% nitric acid rinse;
- 5) distilled water rinse;
- 6) methanol rinse; and
- 7) distilled water rinse.

Sample integrity was also maintained by changing gloves between each sample point. Samples SBAR63BEEC and SBAR63BEEG were both collected in triplicate for QA/QC purposes. A comparison of the results of these samples and their respective duplicates indicates a good correlation. A comparison of on-site screening results with off-site analytical results also indicates a reasonably good correlation. In general, the on-site results were higher than the off-site results.

All samples collected on site were entered on a chain of custody and documented on a sample collection log and a permanent logbook. Samples sent off site were properly preserved, packaged, and overnight shipped to the laboratory.

2.7.2 Laboratory Quality Control

Quality control measures were taken in the on-site laboratory to ensure the accuracy and precision of the analytical data. TPH concentrations were determined using an infrared spectrometer (IR). A calibration curve was developed for the IR, prior to the start up of sampling activities, to establish detection limits and document linearity of the instrument response. A single calibration point was run in triplicate to demonstrate measurement precision. Continuing calibrations were also performed on a daily basis thereafter to provide a check on instrument response.

The off-site laboratory took the proper quality control measures as specified in the methods used. Samples were properly preserved upon receipt by the laboratory and sample extraction and analysis were performed within the holding times specified in the methods. Blank and spike samples associated with the AREE 63BE samples were within acceptable QC limits.

The USACE Environmental laboratory prepared a Chemical Quality Assurance Report (CQAR) comparing the primary samples analyzed by the contract laboratory with the QA samples analyzed by the USACE laboratory. In general, the results of the comparison indicated good agreement between the two laboratories. There was one major discrepancy and three minor discrepancies reported for the PAH analyses for sample



EXAR63BE5A. There were also three major discrepancies reported for the TCLP metals analyses, however, upon review of the data, it was discovered that the comparison was made between total metals reported by the contract laboratory and TCLP metals reported by the QA laboratory. Further review indicated no major discrepancies for the TCLP metals data. All of the other comparisons made indicated 100% agreement between the two laboratories. Refer to Appendix I for the CQAR report.

2.8 Backfilling and Site Restoration

The approximate final dimensions of the excavation were 65 feet by 100 feet, although the excavation was not square. The clean soil removed from the excavation was used for backfill, and clean fill from the North Post of Fort Devens was transported to the site to complete the backfilling. This fill material was sampled at the source and screened for TPH prior to its use on site. Approximately 2500 cubic yards of soil were used in addition to the clean soil removed during excavation.

SECTION 3.0 CONCLUSIONS

AREE 63BE is the designation given to the area affected by the 1,000 gallon UST associated with Building 2290. AREE 63BE is located in the central portion of the Main Post near Queenstown, Givry and Quebec Streets. The UST associated with Building 2290 was removed by ATEC in January 1992 along with 25 cubic yards of contaminated soil. Additional contaminated soil was removed in August 1992, after which time, the excavation was lined and backfilled. Elevated TPH concentrations remained in the excavation subsequent to the removal action conducted in 1992, which was confirmed during the Supplemental Site Evaluation conducted by ABB in 1994.

The NED contracted OHM to demolish Building 2290 and remove the remaining contaminated soil. Site photographs are provided as Appendix J. OHM conducted an asbestos abatement prior to demolishing Building 2290 and removing an estimated 2500 cubic yards (cy) of contaminated soil from AREE 63BE. Screening samples were collected to guide the excavation and determine when the 500 ug/g action level had been achieved. When it became evident that contamination extended under the roads adjacent to the Building 2290 property, the Army directed OHM to stop further excavation and to conduct a soil boring investigation to determine the lateral extent of contamination. OHM installed ten soil borings to determine the lateral extent of contamination to the north and east of the excavation. Results of the soil boring investigation indicated that soil contamination extended beyond the limits of the excavation in a northeasterly direction at an approximate depth of 9 to 11 feet BGS. Based on the results of the soil boring investigation, the Army decided to backfill the excavation.

Confirmation soil samples were collected from the excavation bottom and sidewalls in order to document existing conditions prior to backfilling. The results indicate that average TPH concentrations are below the MCP S-1/GW-1 standard on the bottom and three of the sidewalls of the excavation. Average TPH concentrations above 500 mg/kg still existed along the northern sidewall of the excavation, although all remaining contamination was documented to be below 2,500 mg/kg. The excavated soil was placed into the temporary soil storage area at Building 202, until it can be utilized as cover material in the Consolidation Landfill proposed for construction at Fort Devens. Further investigation will be conducted to better define the lateral extent of soil contamination at the site and assess the potential impact to groundwater.

Appendix A
Asbestos Air Sampling Results

24 00.3CHI IKU CUMPHNIES

Fax Cover Sheet

r.1

	Company: OHM Corp.
	Address:
TRC	Number of Pages (including this one):
	Date: 11/4/94 Time: 8-30 Am
100000	Charge No: 1090 - 20001 - 02
results.	Here are your assestes From 4/3/94 Call me
nments: <u>Kevih</u> - nesults . at (203) 29	
results.	Here are your assestes From 4/3/94 Call me

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

Fax No:

CERTIFIED ENGINEERING & CESTING C Historia Pilices Particulate Monitoring and Inalysis data Pora	e Ke	2 15 Y	,	īNO			2.0	•		3	/1/9	C
client: OHM		1. Ca	esec;	e 1:1	111 1	ومسايدا						
Project Name: OHM / FORT DEVENS		Fiel	d lre	2 (11	sq!:							
Project I:									Batch (:	_15	26	Z
Location: FOAT DEVENS, MAJSACHUSETTS		11.1	yst (print	1:1	an	12	Co	Hon			_
Date Sampled: OCT 17 1999 Rotaneter 1: 0/4		72	K 122	R3 _	 ,	_ Fio:	SR 740	0 <u>V</u>	PACE	H 735		
	15fixi	MINE	HINE	TIME	IRLTE	LITE	CALE	FOLUXE	i IF 15KRS I IF 12LDI I OF 11CLS	1 TS1	ILIVIL	11:
279275 APPLICATION 6 RECON ENVIRONMENTAL CORPORATION SA-36 ON THE SOUTH SIDE OF CONCRETE SCADE BACK- GROVING ASK SAMPLE	100	5480	1240	- 255	0.41	- 10.0	12.0	3000	0/10	lance Cartier	NOT 0:0009	
279276 APPLICATION # PECON ENVIRONMENTAL CORPORATION 54-36 ON THE N-MIN SIGN SCAS. BACKGOZOVILO PIN FORMULA	-964	0825	1290	255	16.5	1/20	12.0	3060	3/100	Leuns Custon	Page 0.0009	
PRECON ENVIRONMENTAL CORPORATION SA-3C INSIEDE THE FORMER AND DESCRIPTION LICATION #	18	10	1440	515	011	1.10	14.0	3.60	2/100	James Cooking	nd-0-0009	
279278 APPLICATION 4 RECON ENVIRONMENTAL CORPORATION BLUC # T-2290 BLUC # T-2290 SIDE OF NETT INSULATION 4 BALIC (10-117) STATE BALIC (10-117) STA		5680	125	260	12.0	12.0	12.0	3/20	whoo	land Code	NOCO 0009	
279279 APPLICATION * BLDGH TO 2290 IN PASS CONTERM. ASTA ON FULL STORY SAMPLE	-	0835	1455	1220	0.47	14.0	0.41	3/10	0 100	1 3	nd20.0009	
279280 APPLICATION 8	BLARK LAB I			BCRS BLDS	2	7C	328	11811	CORPOR.	Alba	oo & s)fala	5
All samples collected and transported under chain-of-custody protestables will be maintained under Chain-of-Custody Protocol for 60	ocol as	nd ana	lyzed	by !	feap: the ne	thod	check:	ed abov	toseter e *L' c vise.			E HC
Belinquisbed under Chain-of-Castody Protocol .				_	(1	nelys	t's S	ignater	e)	_	-	



CHAIN-OF-CUSTODY RECORD

Fon 19 Field Technical Services Rev. 08/89

Nº 115101

O.H.O	MATERIALS	CORP			P.O.	BOX 551	 FINDLAY, OH 45839-0551 	•	419	19-423-3626 /5267
1620 1620 XIENTS F	DEVE	Kevi	N	~	Ł	PROJECT MAN	PROJECT TELEPHONE NO. 508 772-2275 UGERVSUPERVISOR	NUMBER F CONTAINERS	CON	NALYSIS DESIRED MAIGATE EPARATE CONTAINERS)
M M	BAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	Q	1	THO I'M REMARKS
27	9275	1047	1315			den	414	i	1	
279	1274	101)	13.5			Pcy	Ain	1	1	11111
	9277	10-0	1315			Pen	AIR	1	-	1 1 1 1 1 1
127	9 2 7 8	10-12	Bis			Pon	AIM	1	~	
27	9279	1047	1315			Pen	AIT	1	1	
27	9280	10-17	1345			BL	NK	- 1	1	
27	1817	10-11	1315			Bu	NK	1	1	
3	(+)				-					
0					1					
TRANGFER	NUMBER		F	TR	ANGFE	R9 ED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7	K	10	2	-121 E	1	Mela XI July	10-17-91	1330	0
2	1-7	1	Mek		15	and I	1944570250	101394	1400	
3			(iolista	le:42	n An a
4										SAMPLER'S SIGNATURE

Fax Cover Sheet

	To: Kevin Mack
	FAX NUMBER: 508-772-6792
	Company: OHM Corp.
	Address:
TRC TRC	Number of Pages (including this one):
	Date: 11/4/94 Time: 16.30
	Charge No: 10901-2001-021
Comments: // LUIN -	
	he are the arbestos
results for	m your samples 2
	today. Call me at
/	326 with any question
you mig.	It have.
From: Lawe	Coller.

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

Client: OHM		٠	Hicz	650030	Ser.	[a] :	_		-				-
Project Hase: OHm -	FORT DEVOLU	+		d lte		- 22/4					_		-
Project 1: 640445										Batch f:			
Location: FORT DEV	EHS, MA		15el	yst (priet):	La	nie	Ca	Hon			_
	99 Potemeter 1:		70	X ARR	E3 _		_ R10	SA 741	00 📈	_ PECL	K 23S		
STRETE BIR CODE RANGED	I SAMPLE LOCATION/DESCRIPTION ICCITCLE IN OF ONE of Abstract Area)	PUKE	TALKE	ITINE	PIXE	IRITE	LITE	R/XIE	ANTION	ITTIBERS ITTIBLES IOPTICAL	1 757	LEFEL	Lž
ON ENVIRONMENTAL CORPORATION 79297 ICATION #	PRIVATE AIR STAPLE OF GART GENERAL DENNIE FLOOR TILE NEMOVAL AT DIOL # T-1190.	-+51-29	0830	1450	380	2.0	2.0	0.6	760	37/100	imacith	0.0239	
2 (1)	I DUT		1	 - -		1						! ! ! !	
3 (6)] JE		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1		1			1		
£ (9)	I IN I I I I I I I I I I I I I I I I I		1	1		1		1			1		
\$ (18)	I ODA		1			1		1					
279298 APPLICATION #		BLAKE LAB I	_		RLDS I				BL	TRE		£ 12.	
ill samples collected and tra	I I I I I I I I I I I I I I I I I I I	tol at	d and	lyred	by t	Tenp:	thod	check	rods be	rozeter:			ı Hç
Samples vill be sainterined or	der Chain-of-Custody Protocol for 60	days i	iter	abaly	i	aless UU		ructe	other Afra	vist.	Inte	74	

'IED ENGINEERING & TESTING COMPANY, INC. 'ees Perticulate Monitoring and Loady's is pate Port

2HM			Hier	osecy	s \$ 5 E	ja1 1	!									
Project Baza: OHM -	FORT DEVENS		Fiel	d Lre	a (22	se):		_			_,,					
Project 1: 640445				Date Barlyzed: 10/20/94 Lab Satch 1: 152												
ocetion: FOUT DEVENS, M			inelyst (print): Lance Cotton .													
Date Sampled: 10 -/	7 - 94 Rotaneter 1:		72	H 166	P1 _		¥10	SR 14	60	FEC	LN 235					
STRETE BIE CODE ERREE		I PUKE	ITIEE	I FOUR	I PIKE	IR278	1118	E/XIE	LAOLUKI	IFFEED TOPTICAL	1 157	LIFEL				
M ENVIRONHENTAL CORPORATION	BLOG # 1- 2290 OUTSIDE	19	10	1	1	1	1	1	a	10	TO N	B				
79299	FLOOR TILE REMOVE	64	372	1300	38.6	12.0	0.4	120	300.	100	地上	0.0000				
ENVIRONMENTAL CORPORATION	_ Octo oloro una	<u> </u>	1		<u>. </u>		-	<u> </u>		<u>i</u>	15	1				
9300	BLOG #T-2290 DUTING THE DECON DIANG FLOOR TILE KEMPYAL	ALBE	1005	144	27	11.0	12.0	12.0	230	3/10]	junter (AND DOOR				
CATION #	Kem= vac	1		0	12		1		0	1	1	193				
3 (6)	18		1	1	l l		1	 - 			-					
	002															
((5)	I IK	1	1	1			1	1			1	1				
	1 007] .		1	1	1	1	1	l i		1	1				
5 (10)	1K	1	1		1	1	1		1	1	1	1				
	OVT	j	i		1	1		i I		į	į .	i				
RECON ENVIRONMENTAL CORP				IPI								-				
279301	Jems)	1		10/100	2				BL	TRI						
	1.56	1		1	1	****	-					LA A				
il samples collected and tra	nsported under chain-of-custody protoc der Chain-of-Custody Protocol for 60 d	col en	d ana	lyzed	by t	Teap; he ne	thod	check	vods be	zonetez	punting	toles				
	ner custu-or-proceed traced tot so t	rela s	4 ret	one 1 Å	1	lui		Cul	1:	7151.						
Relingutshed under Chair	-o[-Castody Frotocol			-	_				geator	21 -	10/	-1/14				



CHAIN-OF-CUSTODY RECORD

103	,705 K	ECT,CONT	ACT			3	(50	T TELEPHONE NO. 18) 772 -22	*: 15 .	NUMBER	mars	ALYSIS I CCAYE ARATE ITAINERS	DESIRE	//	//	//		Both
	TOW D SAMPLE NUMBER	DATE	(US	로	GRAB C	PROJECT NA D. (SAMPLE I	DESCRIPTION EMATRIX AND DE SAMPLE		NUMI	4	Sie de la constitución de la con	/			//	HEMARKS	(5)
+	279297	10-19	1515		-	Wieth 3		BUHK		1	#	H			Н	1		
Т	277299	12-17					94.4	MACA		1	#					F		
F	729700	10-19	15.5		-	NIOSH	74	AUFA	7	.1	#				\sqcup	+		
7	7293=1	1-19	mr.			HL=SH	71	BUHIL	der.	L	. 4				H	ŧ		
						-												
		J.J.			1.				*				\perp		П	+		
											-	H	+	-	H	E		
TRANSFER	E ITEM				ANSF	ERS HED BY		TRANSFERS ACCEPTED BY	14. 42	DATE	TIME	REMAI			<u>, </u>		TAT	
1			7	-	-		Fad	Ex Arbill	1941	44 60-14	1800			1	1 1	S		
2	2						Can	ce Cotto	M.	10/20	18:10	pm						
2	,	4		_	_				3			PANE E	Wa sign	MI INC	_			

3/1/90

'IED ENGINEERING & TESTING COMPANY, INC. - ors Perticulate tooltoring and healysis path form

DHM			sici	ezechi	e Ser	izl l	:					
Project Hess: OHM -	FORT DEUSHS		Fiel	d lee	2 (12	691:						
Project 1: 640 44	5		Pate	125)	Yzeć:	11	100	194	Lab	Eatch f	_15	27
Location: Four DE						40				otton		1
Date Sampled: 10 -/	9 - 94 Rotzaeter 1:		70	K 1221	21 _		_ %10	SR 74	00		LK 235	
STABLE BIB CODS BOXBES	I SAMPLE LOCATION/DESCRIPTION I(Circle 19 or OUT of Absterent Area)	PUXF	FAIR	TIXE	TIE	ELTE	LITE	EIKIE	Tolux	IFIERS	187 12	ILLEGA
N ENVIRONMENTAL CORPORATION	11	1	1_	1	1	i	1	1	a	10		-
79299 .	FLOOR TICE REMOUND BEG ON LEC	464	578	1300	38.6	12.0	1/2	70	300	100	IL CHAM	9000 0 M
ENVIRONMENTAL CORPORATION 9300 CATION #	BLD 6 #T- 2290 00000	3874	5007	1440	275	12.0	12.0	12.0	2300	3/10)	James Cede	nd10.0000
3 (1)	18	1.	1				1	 - 		1	3	1
	I OUT	1	1	_	l 	<u> </u>	1	1		<u> </u>	1	1
4 (9)	1.18		1			1		1			1	1
	1 003	i .		i	i			ľ			1	i
5 (10)	118.		1		1	1		l I		1	1	1
	l out	1	1					1		į	1	1
279301		JAKI J B I	TYPE PIBLD	UPI O	ELDS!				BL	782		
APPLICATION #	27457	1		18	1	Tead:			C Ba	izoseter		,
ill samples collected and tra samples vill be maintained on	asported under chain-of-custody protoc der Chain-of-Custody Protocol for 60 of	ol ap lays a	d ana iter	lyzed	sis .	aless	thod jast	ructe	d abov	e 111 c		10)63
Relingotsbed under Chair	-of-Custody Protocol			_	Per	المنا	palys	1150	geaty	٤) ٠	1.6	-164

70

FLOOR TILE

DLOG

MEMOULL

1 11

.

I OUT

11

T-LL90.

PLICATION #

2 (1)

-10

MINDSOR

18:46AM TRC

.8

OCT 24

CHAIN-OF-CUSTODY RECORD

Field Te.

OHM Corporation INo. 1077 O.H. MATERIALS CORP. P.O. BOX 551 419-423-3526 FINDLAY, OH 45839-0551 PROJECT NAME FOUT DEVCHS MA ANALYSIS DESIRED OHM - FORT DEWAYS (INDICATE NUMBER PROJECT CONTACT PROJECT TELEPHONE NO. SEPARATE (50x) 772 -22.15 6201 CONTAINERS) Kevis MACK CLIENT'S REPRESENTATIVE PROJECT NANAGER/SUPERVISOR . Tom Best (USACK) Pill Trow SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP BAMPLE NUMBER DATE TIME REMARKS PUS-HIL quy NOSH 71 --279497 10-19 1515 2 279198 HIDSH 7500 10.11 1512 BUHK 3 277 279 10-19 1515 Wy 0211 7800 MELTA 729380 1049 1515 NIOSH 7400 MUZA 7293-1 1-47 1775 MIOSH 74 .. BUHIL -8 10 REMARKS ITEM TRANSFERS RELINQUISHED BY TRANSFERS 24 W TAT NUMBER ACCEPTED BY DATE TIME Fed Ex Awbill 1944 1300 1 74 16/20 2 18:10 pm 3

Kay DESYMSSUM

Fax Cover Sheet

	To: Kevin Mack
	FAX NUMBER: 508-772-6792
	Company: OHM Corp.
	Address:
TRE	Number of Pages (including this one): 4
	Date: 10/21/94 Time: 8.20 Charge No: 16208
Comments: <u>Ve Uin –</u>	exo, avo the DIM roulles
If you have	any questions please at (203) 2.98-632.6.
.,	
	Thanks,
	. /

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399



CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89
107705

No. 107705

																	1.4	0. 10	1100	
O.H. N	MATERIAL	S CORF			P.C	D. BOX 551	• FINDLAY, OH 45839-055	1 .	41	9-42	3-352	6								
CLIENT'S F	PROJECT PROJEC	VE VE	Mc	K		PROJECT MAN	PROJECT TELEPHONE NO (508) 772 -2275 IAGER/SUPERVISOR	NUMBER		IALYS DICAT PARAT NTAIN	E	SIREC	//	//	7			//		
	tom D	est	(les	Ac	E7	Pil	1 SNOW	200				γ,	//	//	//	///				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	o a	/	4	ork/	/	//	//	//	//		REMARKS		
	9277	10.19	15:15			Niost 71	pusour quy	- 1												
2 27	9298	10-19	1515	1		Mesti 7	to BAHK	1							-					-
3 27	7299	10-17	1575		1	Ni osh 7	4- 4454	1	913											
4 74	9300	1079	15.5			NIOSH	74 - Just	1			11									
5 72	9301	1-19	mr			HIOSH	740- BUHIL		J	,										
6									W				J.							
7																				
8							(1				11									
9								1												
10											E						+			
TRANSFER	ITEM NUMBE	R	F		ANSF	ERS HED BY	TRANSFERS ACCEPTED BY	DATE	TIME		MARKS			17		. 1	-A	_		
1	1-5		7		F		Fed Ex A-bill 1944 570191	१०.११	1800				2	T	N	-	1 -			
2																				
3																				
4										SAN	APLER'S	SIGNA	TURE	1	_		Ken	1) ES44.	ssom	

oject Heae: OHM - oject 1: 640445 cation: FONT DEV												
			Fiel	d Ire	2 (11	sq):_			_			+
cation: FOUT DEV			Cata	1021	yzeð:				Lib	Estab 4		
	EHS, MA		lasl	yst (print):						
te Sampled: 10 - 19	- 99Rotameter [:		70	X 12E	87		¥105	E 740	00 1	Paci	LS 235	
STABLE BIE CODS ENABED		PUXI	TIRE	TINE	PIKE	ELTE!	<u> </u>	Z/XIE	roluk!	CHIPIZLO:	1 757	P3252 F L2771 L
P297	PENONEL AIR STAPES OF BANG CANDELL DERICK STOURLE DERICK FLOOR TILE NEMOUNL AT BLOCK # T-LL90.	-450	P	1	1	1			760	1	1	
2 (1)			I ! !	1						I I I	1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
r		1	i i	1	! ! !					1	-	
3 (8)	1 5K 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_; _;	[[i i	1	[] [! ! !				1	1	
4 (9)	1 1 1B	1	1 1 1 1							1	1 1	
	1 007		1							1	1	
5 (10)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 - -	1 1 1	1	l 					1 1 1 1	1	
RECON ENVIRONMENTAL CORPO	OUT 	BLYKI	TYPE	1	I Bersi					i i		
279298 APPLICATION #	IFIBLDS LAB IFIELD SYPE REFERENCE	LAB I		_					ВІ	.18I		
samples collected and t	ransported under chain-of-custody prot	ocol a	nổ án	l l l lyzed	_	Temp:		bech		erometer		nik roles.

CERTIFIED ENGI:	NEERING & TESTING (Monitoring and Inalysis Data Poin	COMPA	NY,	INC	2.					3/1/	90
(Heat: OHM	-		(leibsco	pa Sei	121 1:						1
project Heas: OHM -	FAT DEUENS	;	Field lt	ea (11	52):						
Project 1: 64044	5	Ī	late 1m2	lyzeč:				Lab Bato	b 1;		
Location: Four DE	UENS, M	1	Laalyst	(priot	1:						
Pate Sampled: 10 -/	9 - 94 Rotameter 1:		TEN 18	ERI _		¥105	P 7400	_	FACIN 2	5	_
1 STRATE BIE CODS RARECE	SAMPLE LOCATION/DESCRIPTION	[PUXF]	PIRCITIN	EITIXE	17.15	Lifte	/KIE! FO		BLDS! YS	ST ILLYT	LILE
279299	BLUG # T- 2290 OUTSI THE DECON DUNING FLOOR FICE REMOV	01	1	1	1	1	1	1. 1	1		1
79300	BUDG #T-2290 OUTH THE DECON DUMMG FLOWN TILE KEMOVAL	1874	300/	275	a.71	12.0	120	777	1		
3 (8)	ON1		1	1 1 1 1 1 1			1 1 1	1	I I I I	I I I I I I I I I I I I I I I I I I I	1 1 1
1 (9)	1		1 1 1 1 1 1					1 1 1 1		t t	1
5 (10)	1 ON.3		1 1 1			1 1 1			i i i i		1 1 1 1 1 1 1 1
279301 APPLICATION #		BLANG 53						BLIXI	10	1	
à amples collected and tr Samples vill be maintaiped u	ensported under chain-of-custody pro nder Chain-of-Custody Protocol for 6	I I I I I I I I I I I I I I I I I I I	analyze ter anal	d by t	ferp: he wet aless	hod ch	becked	Barose above "L thervise	counti		11 Hg 5.
Belingotshed under Chai		0.3.0	=				's Sign				
					2.00	~ 5.47 A.S.	2,12"	100000			

CERTIFIED ENGINEERING & TESTING COMPANY, INC. lithorne Pibrous Particulate Monitoring and inalysis Date Poin

Client: OHM			Sict	oscepi	Ser!	21 1	_	_	_				
freject Bere: OHM -		•."		d Area		100		1 .					
Project 1: 445		÷	Date	Fusl.	rzed:	10/	21/	94	_Leb :	Batch fo	15	274	
Location: Fort Deve	ts MASSACHUS & 175		lnal	yst (print	:	191	nce	- (ottor	2.		
Date Sampled: 10-20-9	Potameter 1:		72	K TERI			_ K10	SE 74	10 📈	_ PICE	x 735		2
SAMPLE BLE CODE SUMBER		HUA	MITT	AKITI	PIKE	ELSE	LITE	R/KIR	FOLUME	HTIBERS HTIBERS HTTIBERS HTTIBERS	1 759	LEVEL	ILEV
268510	BLOC A T- LZ84 OUT SIDE DEADN DUNIUC BLANK ARE REMOVIE	1	10	1320	305	120	ا الم	-11.0	3160	1.5/100	large total	Naco-0007	1
268513	PLAG # T-2290 DUT PIDE DECON DUNING GLOVE BAG NEWOUTH	S	/030	1450	200	e, (1).	12.0	10.0	3/10	5/100	Lance Cotton	1000 0 2001	1 1 1 1 1 1 1
3 (6)	1k	1.	1	1				1			1 .		1 1 1 1 1
() (9)	1 007		1	1					l 		1	! ! ! !	1
5 (10)	III 007	1	11111	1 1 1		1	1	1	1	1	1	1	1 1 1
268719	1 1			UN	ELDS				BL	TAZ	4		
all samples collected and to Samples will be saintained to	ansported under chain-of-custody prote	col a	nó ana	lyzeô	by t	feup: he ne bless	thod	check	ed abov	rozeter	:	g Ibles	a Hg
Et L					1	rce		•	etn				
Relinquished under Chai	n-ol-Custody Protocol					11	palys	t'5 5	ignator	e)			

client: OHM	1		Mer	oscepa	Set	el (:	_	-			_		_
Project Name: OHM- Project 1:		21		d treat		-		34	Leb	Batch J:	15	279	1
Location: Fort Dou	24 Rotabeter 1:		lnal	yst (j	print):	4	an	re (To the	n .		_
2 SYNER BIR CODS MOKBES		LPUKP	ITIKE	ITIKE	TRIXE	RETS	LITE	R/KIK	IPOLUNE	IFFIBER: IFFIBER: IFFIBED: IOPTICAL	81 Y87	ILLYEL	LEY
268511	POUSONA AU SAMPLE POLSONA AU SAMPLE POLSONA CLOVE BOR NEW CLOVE BOR NEW 38/100 URC	1	1	14	395	2	2	12	78878	4.5/100.	Taric Cather	-0.022	
i (1)	1 007					 - 			 	1	1 1 1 1 1 1 1 1 1	1 1 1 1	1
3,(8)	1 1 007	-1-1-1	1	I I I I					1 1 1 1	1	! ! ! !		1
4 (1)	1		1	1	1]]] 5- 14-11]	 	1	l l	
, 5 (10)	1 JR	-1-1-	1	1	1) . .			1
268512		BLANI LAB I			RLDS				BL	YRI	Al		
. All samples collected and tra		1		1	j	Temp:			o C Ba	roreter		1	1 Hg

Relinguished mader Chain-of-Castody Protocol

(lbaljst's Signatore)



CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89
No. 107706

	MATERIAL	S CORF			P.C	. BOX 551	• FINDLAY, OH 45839-	0561 •	41	419-423-3528 152.79
CLIENTS	I NAME IM - Fo D. PROJ ZOS REPRESENTATI ON 12	Ke-10	M	a e K	SA	PROJECT MAR	DIS VENS MINHUS PROJECT TELEPHONE NO. 508 - 777-227, NAGERVALPERVISOR	NUMBER	and	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
ITEM NO.	SÁMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ä		HEMARKS REMARKS
1 20	8640	16-2-	150-		W	ANET JA	APLE OUTSIDE F-2290			
2 26	8511	10-10	1500		Ì	1000Am	Air THSIA- T-2294		1	
3 26	8512	1-2-	15-			BLANK			1	4
4 260	8513	10-40	1500			AREA SO	mple output T-229	6	V	
5 26	6719	10-2-	1500			Bunk			V	V
6										
7				Ц						
8	- 11									
9										
10	7									
TRANSFER	ITEM NUMBE	R	F		NSF QUIS	ERS HED BY	TRANSFERS ACCEPTED BY	DATE	TIME	
1	1-5	5	4	2		~	Easin	1020	1530	24HR TAT
2	1-5	- ~	ट	Th	B	1-	Fel Bx Aubil	1 20.20	1530	30
3							Carree Cotton	0.85	1010	
4									-	SOUPLERS SIGNATURE Kon OFTHUISIEN

Fax Cover Sheet

	TO: Kevin Mack
	FAX NUMBER: 508-772-6792
	Company: OHM Corp.
	Address:
TRC	Number of Pages (including this one):
200000000000000000000000000000000000000	Date: 10 21 94 Time: 15:10
· · · · · · · · · · · · · · · · · · ·	Charge No: 16208
Comments: Kerin -	20 20 10 20 11 10 11 10
	ere ove the PCM results.
Thise results	are from the samples
I received	today 10/21/94. Call me
, .	6326 if you should
hove any o	
From:	Lance Colla

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

CERTIFIED ENGINEERING	æ	TESTING	COMPANY,	INC.
Lichorne Pibrous Particulate Monitoring and	1 Ana	lysis Data Porm		

project 1: 16	ION) MA		lnal	yst (print):	L	ana	e	Betch 1	on	
ete Sipled: 10-18-	99 Rotameter 1:		70	X JEE	.er _		_ ¥10	SR 74	00	_ PIC	1K 235	
SYKETE BYE CODS RAKBEB	SAMPLE LOCATION/DESCRIPTION	PURP	17188	147KE	TIKE	RLTS	15178	HIK/E	VOLUK		61 727 61 81	654 f/c
NAME OF THE PROPERTY OF THE PR	PENSONEL AIR 5 TOPLE ON GALT DUNING NEMOUTE IN # T-2280	150-19	0830	1450	380 100	7.0	12.0	120	760 at	15.5/100	lance but	0.0100
2 (1)	1 18		 	[- [1	1	1	1	1	[] [1	E E
3 (8)	1 GU7 1 1 JK	-	<u> </u> 	E I I	1			1	1	1		
	1 001	1 1	1		1		1 1 1 1	1 1 1] 	1		
£ [9]	1 IN 1 I I I I I I I I I I I I I I I I I	1	1 1 1		1 1 1 1	1	1	1	1	1		
5 (10)	1 IR					1		1	1	1	1	
CON ENVIRONMENTAL CORP. 279283 PLICATION #					BERS I		1	1	ВІ	TERE		
	5	1		I .	1	feap:				tonetet		ro)

RECON ENVIRONMENTAL CORP. ASBESTOS LABORATORY CHAIN-OF-CUSTODY FORM

LOG IN	15270	, is	, D	ATE REC	EIVED /	1 1819
SEQUENCE 2792	284 - 279296		ā			
CLIENT OF A CLIENT	Mek	PROS SAMI DATI CONT TURI DATI	N AROUND: F E FAXED RESULT E TYPED RESULT	DE NO. TUPALICE REQUIRES REQUI	POUND ADAY	7 DAY_
	Printed Name	-	Affiliation		Samples	Task
Remitted	Ken Derivision		REZON		3. 4iz	REMIT
Received						
Remitted		1				
Received						
Remitted	147				- N	
Received					H	
Remitted						
REPORT ISSUED CHAIN OF CUSTO	DY SEAL #	FORT O	DISPOS MANIFE	SAL DATE		•

CERTIFIED ENGINEERING & TESTING COMPANY, INC. Lisborne Fibrous Perticulate Monitoring and Analysis Data Porm Client: OHM Microscope Seriel I:_ . "field brea (is sgl: AY Leb Betch 1: 15270 Project 1:_ Date Analyzed:_ inalyst (print):_ Location: Date Sampled: 10 - 18 - 94 * NIOSH 7400 P:CAN 235 Rotaneter 1: CERFIGIAR GOOP RUN TOOT ROTANGTER SAMPLE FIBERS LELL- FIBERFI SINFLE BIR CODE BUXBER [PUKP] TIME | TIME | TIME | RITE | LITER / MIKI VOLUME | IFTELDS | TST | LEVEL | LE SAMPLE LOCATION/DESCRIPTION (Circle is or OUT of Abatement Area) 110 TIMOURIKOURIMIREIL/N ISTERISTOPILITERS [OPTICAL! Sr 11/cc 1 L ENVIRONMENTAL CORPORATION BLDL # 7- 2290 OUTSIDE THE 100 CONTAIN MEAT DUNINE NEWOUX CONTA. HAREY F 3 (1) 1 0UT 1 (1) 007 18 5 (10) OUT [] FIBERS BLAKK TIPE [FILTER] LOT! | BLAKE TYPE [IPIBER 8] IPIBLOSI LAB IPIBLO | TYPE |> LAR | PIELD PIPIELDS! BLLEE Field Blank |Texp:_ 121 samples collected and transported under chain-of-custody protocol and analyzed by the method obecled above "A" counting roles. Samples will be saintained under Chain-of-Custody Protocol for 60 days efter analysis onless instructed otherwise.

BY: 30AM TRC COMPANIES

le Hingule dander Chain-of-Costory Protocol

RECON ENVIRONMENTAL CORP. ASBESTOS LABORATORY CHAIN-OF-CUSTODY FORM

LOG INF 152	170	· ·	· D	ATE RECI	EIVED /o	18 199
SEQUENCE 1791						
CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CLIENT CONTACT CONTA	1 MACK	PROS SAMI DATI CONI TURI DATI	PLES COLLECTED COLLEC	BY K. D IC RUSH REQUIRES REQUIRES	- 18-94 - 18-94 - 18-94 - 18-94 - 18-94	iteri
and the same of th	Printed Name	Signature	Affiliation	Date	Samples	Task
Remitted	Kan DESHUVS-MI	Tol.	KECH	10-18-14		REMIT
- Received						
Remitted						
Received						
Remitted						
Received						
Remitted						1
			word - Manager and Comment			



COMPANIES

TRC

87:29AM

,94

CHAIN-OF-CUSTODY RECORD

Form 0019 Field Technical Services Rev. 08/89

LAB COPY

No. 107704

15270 O.H. MATERIALS CORP. P.O. BOX 551 . . 419-423-3526 FINDLAY, OH 45839-0551 PROJECT NAME PROJECT LOCATION Motosachuretts ANALYSIS DESIRED FORT DEVENT. Test Devent (INDICATE NUMBER PAOJECT CONTACT PROJECT TELEPHONE NO. PROJ. NO. SEPARATE MACK 508-712-1275 CONTAINERS) 16208 BILL SHOW BU BETT WACE SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) GRAB SOM SAMPLE DATE TIME REMARKS 24 42 TAT Qu ALC 130 279284 10-18 PLM AIR 16-18 HID 279295 BLANK 274246 DUM ALR 1450 279282 DIE RLANK MSZ 279283 10-18 8 10 REMARKS ITEM TRANSFERS TRANSFERS RELINCUISHED BY MUMBER ACCEPTED BY DATE TIME 10/8 3:41 1 0/19 2 3 4

Fax Cover Sheet

	TO: Kevin Mack
	FAX NUMBER: 508 -772-6792.
	Company: OHM CORP.
	Address:
TRC TRC Comments: Kevin	Number of Pages (including this one): 6 Date: 10 20/94 Time: 7:40 AM Charge No: 16208 Here are more results.
	prof and 1900 to viction 15.
	Lance Coff
Ų.	
From:	

TRC

TRC Environmental Corporation
5 Waterside Crossing
Windsor, Connecticut 06095
Telephone No: (203) 289-8631
Fax No: (203) 298-6399

P.3 3/1/90 CERTIFIED ENGINEERING & TESTING COMPANY, INC. Libbothe Pibrous Particulate Monitoring and Lowlys's Data Fore client: OHM Microscope Serial 1:2 Project Here: OHM - F-4T DEWOYS . Field Liea | 11 sgl: Froject 1: . W4 0445 Location: FORT DEVOIS MASSACHUS ETIS Analyst (print):_ Data Sampled: 10 -11-94 Rotaseter 1: E10SH 7400 FECAN 235 TEN LEBEL CERT STAR STOP RUE | FLOT ROTANETER SAMPLE | FIRE | INLL- | FIRE | FIE STREFF BYE CODE EARBER STITED AS A TENDER OF THE PROPERTY OF THE PROP SAMPLE LOCATION/DESCRIPTION TID FIROUR HOUR HIRSILIN ISTARISTOPILITERS OPTICAL SI IE/es I Le (Circle 19 or our of 1batesent break RECON APPLICATION & 100101 OUT BLOC# T-2290, Ock 3.5/100 SA-31 O-FSIDE DE NEMBUAL 5A-31 1HSIDS BLOJE DOG REMOVAL CLEAVANCE 5 (10) 017 RECOM APPLICATION # [| PIBERS | BLANK TYPE | PILTER | LOTI | BLAKE TYPE | | FIBERS | PIELDE | LAN (PIELD | TYPE | LAB | FIELD | IFIELDS BLAKE 268702 | feap:__ C Beroreter:_ all samples collected and transported mader chain-of-custody protocol and analyzed by the method checked above '1' counting roles.

Samples vill be maintained under Chain-of-Custody Protocol for 10 days after analysis naless instructed otherwise.

Relinguished under Chain-of-Custody Protocol

268/02		RHEMSSYS	1		01100	1	Teap:	_		0	aroneter			1Hg
RECON APPLICATION TO		PYPE I	PAB		I	ELDS I				В	LARI			
5 (10)	1 1N			1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1		1 1 1 1 1		1	1 1 1 1 1 1
268701	SA-31 INSC PIT DIA BLAIF OOG CLEAVA	REMOVAL.	-937	-J000	- 1115	36	12.0	0.41	10.0	_1620_	14.5/100	apply miles	1-100-0	1
168700	SAMIL OUT	SIDE THE	-1291-	1000	1415	135	120	12.0	12.0	1620	2.5/100	lance lother	7100.0017	1 1 1 1 1
268519	BLOC# T-	ecenna 1/00 W	_12	0900	_1120	4	ب	0.1	7		4/100	Lance Calley	nd + 0.00 lb	1 1 1 1
268518	BLDG #T-		-3874 4186	0900	1110	140	110	12.0	120	1680	6/100	lance College	0.0018	! ! ! !
STREFE BYE CODE EARBEE	I SAMPLE LOCATION/		PORP	TINE	12188	TIKE	RITE	1172	11878	HOLUKE	I FIBER	127 12	ILEFEL	ILEV
Location: Fout DEC	•										Cot			_
Project i: 4 or											Latch [:			7
Project Hene: OHM -	F-47 DEVOYS			Field	1 110	111	sq]:							
client: OHM				Micze	SCEP	Seri	1 [5	1						

(loalyst's Signatore)

CERTIFIED ENGINEERING & TESTING COMPANY, INC. Lieborne Pibroca Particulate Monitoring and Analysis Pata Pora Microscope Serial 1:_____ client: OHM Project Haze: OHM - FOOT DEVOIS "Firld Irea (11 sol:_ Date analysed: 10/24/94 Lab Batch 1: 15287 Project 1:_ 64044 DEWAYS MASSACHUSETS Analyst (print):_ Location: Date Sampled: 10- 21-44 TEN 18321 _____ NIOSE 7400 _____ PECAS 235 __Rotaseter 1:__ STRAFE BIG CODS RAXBEB CSET GTAR STOP FROM I FLOT ROTANTERE SAMPLE | FIBERS | ARLL- [P] BSE | F15: SAMPLE LOCATION/DESCRIPTION IPUKPITINE TINE TINE TINE LA LIBER LA LE L'ALLE L'A Iffice and or out of Abatesent bread | 110 | HOUR | HOUR | HOUR | HIS | LANGE | STEELSTOP | LITERS | OPICEL | SI | 1/2 | LO RECON APPLICATION # POUSONER DIX SMIPLE N GATT CANDERS DURCHE CEAUF BAC ME MOURE 1 (1) . 007 3 (8) DUT 007 5 (10) 1 OUT [| FIBERS | BLANK TYPE | PILTER | LOT! | BLANK TYPE | | FIBERS | RECON APPLICATION # LAB | FIELD | PIELDS BLAKE C Baroneter:_ | Temp:_ All samples conflected and transported mader chain-of-custody protocol and analyzed by the method checked above "1" counting roles. Samples will be maintailed under Chain-of-Custody Protocol for 10 days after analysis enless instructed otherwise.

OCT 24 '94 10:45AM TRC WINDSOR

Relinquisted under Chain-of-Custody Protocol



CHAIN-OF-CUSTODY RECORD

Field Technical Services Rev. 08/89

No. 107685 O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT LOCATION ANALYSIS DESIRED PROJECT TELEPHONE NO. FORT DEWENS (INDICATE NUMBER PROJECT CONTACT SEPARATE CONTAINERS) Keves much PROJECT MANAGER/SUPERVISOR CLIENT'S REPRESENTATIVE SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE TIME DATE REMARKS PERSONA 4in SAMPLE 268516 10-11 268517 BLANK 10-11 Fither air sample, BLOW # T-1290 268518 10-11 FINAL AIR STANKE, BLOC # T -2290 4 268519 10-21 ANFA SAMPLE AF 54-31 268700 10 71 OUTSIDE PIT ANEA SAMPLE AT SA-31 6 268701 10-21 INSIDE AK PIT 268702 BLYKK 10-21 B REMARKS ITEM TRANSFERS RELINQUISHED BY TRANSFERS ACCEPTED BY NUMBER DATE TIME 10.21 5 mble 战 10-21-94 1 24 1944570165 11.21 2 1530 94 9:50 10 24 3 Ley DESMUSSEM SAMPLEDS EIGNATURE

Appendix B
Asbestos Transportation and Disposal Documentation

Partyka
Resource
Management

Chicopee Sanitary Landfill Facility SPECIAL WASTE LOG

C. G. Liebig Cy	rp - riigine	ers	2. OHM Corp	poracion	
enerator's Nar 2613 Lake Ge	orge St., For	rt Devens	Operator's 88C Elm	St.	111
Ayer, MA 01		0.0	Operator's Hopking	ton, MA :0174	18
senerator's Pho	ne :	W 5 6	Operator's	Phone (508) 4	135-9561
Vaste Disposal Telephone #:	Site Name, Ma	ailing Addres	s, Physical Sit	e Name and L	ocation, a
Connecticut Valley	Sanitary Waste I	Disposal, Inc., 6	345 Shawinigan D	rive, Chicopee, M	A 01020
Chicopee Sanitary	Landfill Facility N	New Lombard P	Road, Chicopee, N	AA - (413) -785-15	581
	3.78Co.a.c.25				
lame and Add	ess of Respon	nsible Agenc	у;		
Regional Asbesto	Coordinator, US	EPA, Region I	, JFK Federal Bu	ilding, Boston, MA	4 02203 or
EP Western Re	Non State House	West 436 Du	inht Street Sprin	ofield MA 01103	
	71				
escription of	Waste Dispose	Non-Fr	riable Asbes	tos	
and Type of	Containers:1	w. ud box	7. Total Qu	antity (vds):	7.
and Type of		/		•	
and Type of		/		•	
1 2		/		•	
pecial Handiin		/		•	
1 2	P Dahee	Au Au		•	
mecial Handiin	P Ochecation (Printed Name	end Other Ad	ditional Inform	Allon Done) //·// (Date)
medial Handling Mediae Decador's Certificate Certify above that	P Ochecation (Printed Name the contents of this	ne and Title)	ditional Inform Line (Signature) fully and accurate	ation Done	//. /4/ (Date)
mecial Handiin	POCHEC ation (Printed Nam the contents of this are classified, packs	ne and Title) consignment are	ditional Inform Line (Signature) fully and accurate d labeled; and, are	ation Done	// /// (Date) by proper condition
pecial Handiin Operator's Certificate certify above that thipping name and a per transport by high	Pochecation (Printed Name contents of this are classified, package way and for dispose	ne and Title) consignment are aged, marked, an al according to ap	ditional Inform (Signature) fully and accurate d labeled; and, are opticable internation	ation Done	// /// (Date) by proper condition
pecial Handing peralor's Certificate certify above that hipping name and a per transport by high	POCHECATION A POCHECATION (Printed Name the contents of this are classified, packet way and for dispose the content of the con	me and Title) consignment are aged, marked, an al according to applices, Inc.	(Signature) fully and accurate d labeled; and, are opticable internation	ly described above in all respects in protection of the contraction of	(Date) by proper conditional regulations
pecial Handing Derator's Certificate certify above that hipping name and a pertransport by high Fleet Environment (Name and Special Control of the Control	Pochecation (Printed Name contents of this are classified, package way and for disposation, Title, Address	me and Title) consignment are aged, marked, an al according to applices, Inc.	(Signature) fully and accurate d labeled; and, are opticable internation	ation Done	(Date) by proper conditional regulations
pecial Handing peralor's Certificate certify above that hipping name and a per transport by high	Pochecation (Printed Name contents of this are classified, package way and for disposation, Title, Address	me and Title) consignment are aged, marked, an al according to applices, Inc.	(Signature) fully and accurate d labeled; and, are opticable internation	ly described above in all respects in protection of the contraction of	(Date) by proper conditional regulations
pecial Handing Derator's Certificate certify above that hipping name and a pertransport by high Fleet Environment (Name and Special Control of the Control	Pochecation (Printed Name contents of this are classified, package way and for disposation, Title, Address	me and Title) consignment are aged, marked, an al according to applices, Inc.	(Signature) fully and accurate d labeled; and, are opticable internation	ly described above in all respects in protection of the contraction of	(Date) by proper conditional regulations
Operator's Certification of transporter 1 (Nar P.O. Box 939) Assonet, MA	p Instruction a P Oche ation (Printed Nam the contents of this are classified, packa way and for disposa nmental Serv ne, Title, Address	me and Title) consignment are aged, marked, an al according to applices, Inc.	(Signature) fully and accurate d labeled; and, are opticable internation	ly described above in all respects in protection of the contraction of	(Date) by proper conditional regulations
pecial Handing Operator's Certificate certify above that thipping name and a primary port by high Eleet Environ ransporter 1 (Name 19.0). Box 939	p Instruction a P Oche ation (Printed Nam the contents of this are classified, packa way and for disposa nmental Serv ne, Title, Address	me and Title) consignment are aged, marked, an al according to applices, Inc.	(Signature) fully and accurate d labeled; and, are opticable internation	ly described above in all respects in protection of the contraction of	(Date) by proper conditional regulations
Operator's Certification of transporter 1 (Nar P.O. Box 939) Assonet, MA	p Instruction a P Oche ation (Printed Nam the contents of this are classified, packa way and for disposa nmental Serv ne, Title, Address	me and Title) consignment are aged, marked, an al according to applices, Inc.	(Signature) fully and accurate d labeled; and, are opticable internation	ly described above in all respects in protection of the contraction of	(Date) by proper conditional regulations
Operator's Certification of transporter 1 (Nar P.O. Box 939) Assonet, MA	p Instruction a P Oche ation (Printed Nam the contents of this are classified, packa way and for disposa nmental Serv ne, Title, Address	me and Title) consignment are aged, marked, an al according to applices, Inc.	(Signature) fully and accurate d labeled; and, are opticable internation	ly described above in all respects in protection of the contraction of	(Date) by proper conditional regulations

the first the first the first terminal and the first terminal and



FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE				Shipper's		0708
CARRIER: FLEET ENVIRONMENTAL SERV	ICES, INC.	SCAC		Carrier's D	No ate 11	/14/94
TO: Partyka Resource Management Consignee 645 Shawinigan Drive Street Chicopee, MA 01020 Zip		Shipper Fo Street 26	rt Devens	Corp. of E George St.	nginee	
Route:				Vehic Numi	200	
No. Shipping (IF HAZARDOUS MATERIALS PROPER SHI	PPING NAME)	HAZARD CLASS	(.D. Nümber	WEIGHT (subject to correction) :==2	RATE	LABELS REQUIRED (or exemption)
7cy Non-Friable Asbestos	N	ONE				
			- 17	71		4
Remit C.O.D. to: Address: City: State:	Zip:	co	D Amt	ŝ	P	C.O.D. FEE:
NOTE — Where the rate is dependent on value, shippers are required to ing the agreed or declared value of the property. The agreed or declared value is hereby specifically stated by the shipper to be not exceeding.	state specifically in writ-	Subject to bemon 7 of the sending quinglier, the sendings whill sign th the source shall not make delivery of (Signature of Consignor)	ns, if this physment is to be da- a fallowing replament. I she shipment without payment.	breized to the consignae without r	Accourse on the	FREIGHT CHARGES PREPAID COLLECT
RECEIVED, subject to the classifications and lawfully fuled tariffs in effect on the packages unknown; marked, conspired, and destined as indicated above which scontiact) agrees to carry to its estail place of delivery at said destination, if on its over all or any portion of said route to destination and as to each party at any time the governing classification on the date of shipment. Shapper forceby certifies that he is familiar with all the bill of lading terms and castings.	aid carrier (the word carrier bei route, etherwise to deliver to a a interested in all or any said p	ng understood throughout another carrier on the rou operty, that every service	this contract as mean to to said destination to be performed here	ing any person or corpor it is mutually agreed as under shall be subject to	ation in posses to each carrier all the bill of i	sion of the property under the of all or any of, said property ading terms and conditions in
This is to certify that the encounterment materials are properly classified, discribed, pickaged, manufactured, and are in proper condition for transposalion according to the employable regulation. Department of fransportation. Per	PLACARDS REQUIRED	>	F.		YES NO VER SIGNATU	— FURNISHED BY CARRIER RE:
SHIPPER: US ARMY CORP OF BALLUE	rens /	CARRIER	:			
PER:		PER:				
DATE: 11-14-99		DATE:				
TELEPHONE NUMBER: 1800 1 537-4540		Manned 24 hours emergency respon	s/day by a personse information	on with knowledge or who has access	e of the had	ards of the material and n with that knowledge.



FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE				Shipper's		0708
CARRIER: FLEET ENVIRONMENTAL SERVICES, INC.	5	CAC		Carrier's	No	11/14/94
TO: Partyka Resource Management Consignee 645 Shawinigan Drive Street Chicopee, MA 01020 Zip		er Fort 2613	Devens	rp. of E orge St.		Zip 01433
Route:				Num		
No. Shipping JII. HAZARDOUS MATERIALS. PROPER SHIPPING NAME)	HAZĀ CLAS	iD 💖 . S	J.D. Number	WEIGHT (subject to	RATE	LABELS REQUIRED
7cy Non-Friable Asbestos	NONE			200	P	
Remit C.O.D. to:						C.O.D. FEE:
Address: City: State: Zip:		COD	Amt:	\$		Prepaid ☐ S
NOTE — Where the rate is dependent on value, shippers are required to state specifically in wing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per	The corner shall not (Signature at Consid		g stotement. nunt without payment of tre	ight and all alber lawful sha	recourse on the	FREIGHT CHARGES PREPAID COLLECT
RECEIVED, subject to the classifications and lawfully filed farifits in effect on the date of issue of this Bill packages unknownt, marked, consigned, and destined as indicated above which said carrier (the world carrier contract) agrees to carry to its votal place of definery at said destination, if on its route, otherwise to deliviour all or any portion of said route to destination and as to each party at any time interested in all of any similar governing classification on the date of stipment. Shapper hereby certifies that he is familiar with all the bill of leding terms and conditions in the governing.	er being understood our to another carrier said property, that e	on the route to se ory service to be	entract as meaning i aid destination. It is performed hereund	any person or corpo mutually agreed as or shall be subject t	te each car o all the bill	session of the property under the trier of all or any of, said property of lading terms and conditions in
This is to empty that the above numed manuals are purposty Chitchidy distribut, procupied, marked and latered and are in proper condition for transportation according to the epophsatic regulatures of the Department of Transportation Per					YES ON	NO — FURNISHED BY CARRIER ATURE:
SHIPPER: U.S. Areny Lord OF FAGURERS	CA	RRIER: F.	lest En	winnine	etal.	Sprices
PER:	PE		hully	Dole	de	7
DATE: 11-14-91	DA	TE: //.	14.	14	11	
TELEPHONE NUMBER: 1800) 537 - 4540						hazards of the material and rson with that knowledge.

FL.				
	E. AVIRONMEN	TAL SERVICE	S. INC.	
RIDGE RILL ROAD, P.O. BOX	95 ASSONET,	MA 02702	TEL. (508)	644-3003
9.115.0	+	7 1		A 111
CUSTOMER: OHM	1		ES SALESPERSO	
MAILING ADDRESS: 880 E	Inst.	S	tart Date 11	
CONTACT PERSON:	MG. ZIF:	01748 M	on/Tues/Wed/T	hurs /Fri /Sal
CONTACT PERSON:	+ 114 CGREY	C	ompletion Dat	e 11 /4/194
TEL. #: (508) 426- 126	P.O.#: 07	VOITT-COOR	Pather	
	****	****	******	*******
JOB SILL Y CHAY OF	t Wash	Lub iver	_ N-1-1-1-	
ADDRESS; FOR+ DOVENS	2613 Welca	D BR 15 55:		
FILE COLUMN				ZIP:
SITE CONTACT PERSON: Kevi	1 MGCK	EL, #:		
SITE TEL. #: (508) 77	6 2 13	MA II.		
BPA #:	C	ONTACT PERS	ON:	
DIG SAFE #:ST			and a source process to be	
***********	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE			******
		N SITE TIME	The statement of the st	
SCOPE OF WORK:			- 1 to 1	
	4- Up 6	16-10	CONTETY	(C)
	10 Ja 17	JUEN -		
	ce 10 th	1 d V		e save e se someone esta
A	D 3.			
Left PBS Yard 5.20	9 m //p m.	Departed Si	te	a.m./n.m
Arrived @ Site 6 90	a.m./p.m.	Return to Y	ard	a a. /p. m.
		1	The second second	
LABORER -	REG. O.T.	EQUIPMEN	Ï	HOURS
Mike D		1 1000	WIN .	***************************************
Libertals and English and annual and a supplemental				
And the second of the second o			Carrier - Terres and in Manager Con	
		4 1	THE AMERICAN STREET	
SUPPLIES - QUANTITY	SUPPLIES =	QUANTITY	SUSBLIES - O	HANTITY
Speedi Dry	b a b e		0.511 1.515	
Absorb, Pads				
			2 7 1 12 12 13 - 1 1 1 1 1 1 1	
Absorbiracs	Clova		3	
Boom, Absorb,	., Gloven) 31- 44-	Эгиня	
Boom, Absorb	. Misc	(1 + 2 + 4 + 4 + 4 + 1	9 runs	
Boom. Absorb	. Misc *******	************		
Boom, Absorb	. Misc *******	************		
Boom, Absorb	. Misc., ************ 	**************************************	Огинв Мівс цкиникинняни К.	######################################
Boom. Absorb	. Misc., ************ 	**************************************	Огинв Мівс цкиникинняни К.	######################################
Boom, Absorb	Misc *********** HRS. S DESCRIPTION	*************** URCONTRACTO WASTE COD	Orume	#********* HRS.
Boom, Contain	HESCRIPTION	WASTE COD	0 rums	TD.V.
Boom, Contain	Misc *********** HRS S DESCRIPTION	********** URCONTRACTO WASTE COD	Prums	**************************************
Boom, Contain	Misc., ************ HRS. S DESCRIPTION	********** URCONTRACTO WASTE COD	0 runs	**************************************
Boom, Contain	Misc	*********** URCONTRACTO WASTE COD	0 r u w s	**************************************
Boom, Contain	Misc ********** HRS. S DESCRIPTION Depa	*********** URCONTRACTO WASTE COD	Prums	**************************************
Boom, Contain	Misc ********** HRS. S DESCRIPTION Depa	*********** URCONTRACTO WASTE COD	Prums	**************************************
Boom, Contain	Misc ********** HRS. S DESCRIPTION Depa	*********** URCONTRACTO WASTE COD	Prums	**************************************
Boom, Contain	Misc ********** HRS. S DESCRIPTION Depa	*********** URCONTRACTO WASTE COD	Prums	**************************************
Boom. Absorb	######################################	WASTE COD WASTE COD Ched: NO:	PRS Represent	######################################
Boom, Contain	# Misc	WASTE COD WASTE COD Ched: NO: 14/ 94 ***********************************	PRS Represent	######################################
BOOM, CODITAID	Description Department Department Department Date Twm:	WASTE COD WASTE COD CDed: NO: PIXE OFFICE APPR	PRS Represent X ** * * * * * * * * * * * * * * * * *	HRS. TD.V.



645 Shawinigan Drive Chicopee, MA 01020 (413) 785-1581

Dear Customer:

In compliance with the notification requirements of Federal and state regulations, find enclosed a completed asbestos disposal and documentation form acknowledging that the listed asbestos wastes have been disposed of at our facility.

The enclosed duplicate copy of the form(s) indicate the date of disposal, type of material and quantity. If you have any questions or comments, please do not hesitate to contact us. Thank you for your business.

Very truly yours,

A. Ronald Wesolowski

Office Manager

ARW/jk

Enc.

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

S MEMORANDUM

is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading a copy or duplicate, covering the property named herein, and is intended solely for filing or red	, nor	i.		Shipper's	No.	0708
CARRIER: FLEET ENVIRONMENTAL SERVICES, IN	C.	SCAC Carrier's No				
TO: Partyka Resource Management Consignee 645 Shawinigan Drive Street Chicopee, MA 01220 Zip			Devens	orp. of E eorge St.	engine	ARTON AND AND AND AND AND AND AND AND AND AN
Route:		0,976	With the Artistant	Vehi Num	7.0-2	
No. Kind of Packages. Description of Articles Shipping Units (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME		HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
7cy Non-Friable Asbestos	N	ONE		2800	P	
T Y T						
Jans brather						
Remit C.O.D. to: Address: City: State: Zip:		COD	Amt:	\$		C.O.D. FEE: Prepaid Collect \$
OTE — Where the rate is dependent on value, shippers are required to state specifical g the agreed or declared value of the property. The agreed or declared value of the proper hereby specifically stated by the shipper to be not exceeding \$ Per	ly in writ- rty	Subject to Service 7 of the conditions, if this conceptus, the comments shall size the following The number shall not make districtly of this ships (Signature of Conseptus)	shipment of to be defined a particular. Marris writing payment of h	rail to the compress understand	TOUR OF SE	FREIGHT CHARGES PREPAID COLLECT
HECEIVED, subject to the classifications and lawfully lifed tariffs in effect on the date of issue of packages unknown), marked, consigned, and destined as indicated above which said carrier like contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise over all or any portion of said route to destination and as to each party at any time interested in all the governing classification on the date of shipment. Shipper hereby certifies that he is femilier with all the bill of lading terms and conditions in the assigns.	to deliver to a or any said pa	ng understood throughout this co enother carrier on the route to s roperty, that every service to be	ontract as meaning aid destination, it performed hereun	any person or corpo is mutually agreed as der shall be subject t	to each care to all the bill	session of the property under the rier of all or any of, said property of lading terms and conditions in
his is to cartify that the above-named materials are properly classified, discribed, packaged, marked and tipeled and are in proper condition for transpossion according to the applicable regulations of the	CARDS				YES DI	O — FURNISHED BY CARRIER TURE:
SHIPPER: 1) S ARMY (3022 UF ENTINEERS		CARRIER:	logt E.	ansang	15/	Services
PER: DATE: 11 U.S. TY	_	PER:	1111	act	100	-
MEDICANOV DECRONICE			v by a person	with knowledge	e of the	hazards of the material and
ELEPHONE NUMBER: 180 1 537-40		emergency response in	nformation or	who has acces	s to a per	son with that knowledge.

Appendix C Demolition Debris Transportation and Disposal Documentation

USING SOYBEAN INK

SOVINK

1000			STRAIGHT BIL	L OF LAD	DING	Shipper No.		_
Page/	. /		wysle MANAGOMENT		WH .	Carrier No.	-	, ,
Page	01	_	(Name of	200	(SCAC)	Date	101	126/8
On Collect on Delivery	2.7	E must appear balors	conscious name or as otherwise provided in liam 430, Sec. 1	FROM: Shipper U.S	HE			
Consignee 4	chba	wy/ West	ginsfur land Foll	Street 8413	late George	15+		
Street K7	806	- 79 ₁	BOSTON POST KOND	City 17	lake George Devens	State Z/A	Zip Code	0143
City flustion	not spec	State Zuk	Zip Gode 6/473	24 hr. Emergency (Contact Tel. No.			
Route	A.		AREE-6	BE / 5A . 50	3	Vehic Numb		
No. of Units & Container Type	нм	Identification	BASIC DESCRIPTION Proper Shipping Name, Hezerd Class, Number (UN or NA), Packing Group, per 172.10	1, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHAR (For C
1- zoyd Kolloff		Бенепа	I Construction Debuis					
	-							
-					+			
								
PL	ACAR	DS TENDE	RED:YES NO	REMIT C.O.D. TO: ADDRESS				
Note — Where the rate required to state specification of the property.			i hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and	COD	Amt: \$	C.O.D. PREPA COLLEG	FEE ID IS CT IS S	
		the property is hereby be not exceeding	are in all respects in proper condition for transport by E Rail E Highway E Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and na		conditions, if this shipment is to be def a on the consignor, the consignor sh	vered to the TOTAL		

The carner shall not make delivery freight and all other lawful charges.

FREIGHT CHARGES

RECEIVED, subject to the classifications and lawfully filed familts in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract agrees to carry to its usual place of delivery as and destination, if on its route to said destination. If is mutually agreed as to each carrier of all or any of, said property over all or any portion of

said rouse to destination and as to each part, at any (imn) interested in all bit any said property. That every service to be performed hereunder shall be subject to all the pull of lading terms and conditions in the governing classification on the date of simpment. Shapper hereby certifies that he is familiar with all the bull of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER PER

CARRIER

PER

DATE

Permanent post-office address of shipper

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-5.





436355

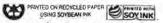
OHM

	_	-	,	١
	-	24	1	I
5	40			۱
	4			l
7				,

P.R.T.R. INC.

791 BOSTON POST ROAD

ADDRESS Waste Management		10-27-94	6:53
COMMODITY Demo		55980 lb	IN
CARRIER			LOOP # 4
TARE - DRIVER ONOFF	U		
NET @ PER LB. PRICE		10-27-94	7:04
SHIPPER		55980	16 GR
DUMPSTER NO. 2017		34340	16 TA
WINDOW STICKER		21640	16 NT
MUN. COLLECTION - NO			
Weighed on a Fairbanks Scale			



ATTENTION SHIPPERS!

FREIGHT CHARGES, ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

_
1
-

Shipper No.

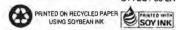
				1 -
STRAIGHT	BILL	OF LAD	ING	

ORIGINAL-NOT NEGOTIABLE

			waste management.	or lacked	MI	Carrier N	o			
Page	of	-	(Name of	carrier)	(SCAC)	Da	te /0/	128/9		
On Collect on Delivery ships			consignee's name or as otherwise provided in Item 430, Sec. 1	FROM: /// //						
Street 791	Buston	n Post No	nud	City Ff Rev	s lake George vens	State 214	Zip Code	0/43		
city Mualbo	rough	State 74 H	Zip Code <i>01752</i>	24 hr. Emergency C						
Route			KNEE 438	E			ahicle			
No. of Units & Container Type	нм	Identification	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Number (UN or NA), Packing Group, per 172.10	reduce that	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARG (For Care Use On		
1 304d LOKOFF		венена	l Constantian Debais	Galoris, ster.)		140				
								- 14		
				REMIT						
PL	ACARI	DS TENDE	RED:YES NO	G.O.D. TO: ADDRESS						
Note — Where the rate required to state specifi- value of the property. The agreed or decision	cally in writing th	ne agreed or declared	I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and	COD	Amt: \$ PREPAID COLLECT			\$		
specifically stated by it	ne shipper to be	not exceeding	are in all respects in proper condition for transport by E Rail E Highway E Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and na-	Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:			CHARGES: \$			
Signature Signature			The carrier shall not make delivery of this shipment without payment of freight and all other fawful charges. (Squalus or Conserver)			FREIGHT CHARGES FREIGHT PHI PAID Check born I thang stony when lair at got is shareful at all sole				
this Bill condition which corpor deliver	on of contents of said carrier (the valient in possessing y at said destination	properly described above of packages unknown), in word carner being underst sion of the properly undi- ation, if on its route, other	fawfurly filed itarifs in effection the date of the issue of in apparent good order except as noted (contents and narked, consigned, and destined as indicated above good throughout this contract as meaning any person or et the contract agrees to carry to its usual place of rivises to deliver to another carrier on the route to said et of all or any of is and projectly over all or any portion of	governing classification Shipper hereby car	on and as to each party at any time inte not be reunder shall be subject to all in mon the date of shipment titles that he is familiar with all the mand the said terms and conditions not his assigns	bill of lading 'emy	and comblens in th	ie.		
SHIPPER 45 BRAY CORD OF ENGINEERS			CARRIER Edu	wed Mon						
DER Tuntly & Clara			a	PER	1.					
			DATE							

Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-58



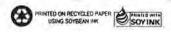


437170

P.R.T.R. INC.

CUSTOMER'S NAME = 1 102 F7 2		OROUGH	SH, MA 01752 1-0336		
ADDRISS		123-	20.24	13:5	54
COMMODITY 132 502		11920	1 15	IN	
CARRIER		Fe (M)			#22
TARE DRIVER ONOFF					
NET @ PER LB. PRICE		10-	-28-94	14:	14
SHIPPI R		to he	920	15	GR
WEIGHER		234	600	16	TA
WINDOW STICKER		33:	240	16	NT
MUN. COLLECTION - NO.					
Weighed on a Fairbanks Scale					

0 (14)

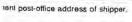


		-
	**	
6		1
-		4
ECT.		

ENTION	SHIPPE	RS! FRE	0	L OF LAD	DING	Shipper I		to be
of WASH MANAGUM					(SCAC)	D	ate	25/94
nee PRT	TRIN	C	consignee's name or as otherwise provided in Item 430, Sec. 1.		ALE 3 labe General	St		
791 Kusten Root Kond				City Ff Bevens State ## Zip Code 01432				
PHALBON	rough	State Fifth	Zip Code 0/75 Z	24 hr, Emergency C	contact Tel. No		Vehicle Number	
o of Units ontainer Type	нм	Identification	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Number (UN or NA), Packing Group, per 172.10	1, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction	RATE	CHARGES (For Carrier Use Only)
ile _		Gewen	al Construction Rebeis					
PL/	ACARD	S TENDE	RED:YES NO	REMIT C.O.D. TO: ADDRESS			4 5	
— Where the rate is dependent on value, shippers are ed to state specifically in writing the agreed of declared of the properly is greed or declared value of the property is hereby its greed or declared value of the property is hereby its stated by the shipper to be not exceeding. TRANSPORT according to applicable international and national governmental regulations.			Subject to Section 7 of the conditions, if this shipment is to be defivered to the consigner without recourse on the consigner, the consigner shall sign the following statement: The carrier shall not make delivery of this shipment without payment of reinth and at other tawking changes:			C.O.D. FEE: PREPAID COLLECT \$ TOTAL CHARGES: \$ FREIGHT CHARGES		
PECEIVED, subject to the classifications and lawfully filed liards in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of peckages unknown), marked consigned and destined as indicated above which said carrier title word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its froute otherwise to deliver to another carrier on the role to said.				Ireight and all other lawful charges. Its owners of Consport Said fourie to destination and as to each party at any time interested in all or any said property, that every governing classification on the datil of so prival. Shipper helicity certifies that he is familial with all the bill of lading terms and conditions in the governing classification and the said rems and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.				e

CARRIER O PER

DATE



437074

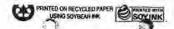
Weighed on a Fairbanks/Scale

O HM



P.R.T.R. INC. 791 BOSTON POST ROAD

CUSTOMER'S NAME / 1/15 TE	/ / I	MARLBOROUGH, MA 01752 TEL. 481-0336			
ADDRESS	10-22-24	9138			
COMMODITY Degree	55900 lb	TH			
CARRIER		L00F 418			
TARE - DRIVER ONOFF		r.			
NET @ PER LB. PRICE	10-28-94	9:52			
SHIPPER	55500	1 1/2 1/21			
WEIGHER	34240	110 77			
WINDOW STICKER	21660	11: 11:			
MUN. COLLECTION - NO					



ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

STRAIGHT	BILL OF LAD	ING	Shipper No.		
	Chent of Cantal	(SCAC)	Carrier No.	10/2	7/94
On Collect on Delivery shapments, the letters "COO" must appear before consigned's name or as otherwise provided in term 450. TO: Consignee P.R.T.C. INC	Shipper US	MCE Lahe George	ect		
Street 791 Boston Post Mond	City FT Dec		State 744	Zip Code &	01432
City What borough State THA Zip Code 0/75		1.50			
Route	EE-43BE		Vehic Num		
No. of Units HM BASIC DESCRIPTION Proper Shipping Name, Hazard	Class,	TOTAL QUANTITY (Weight, Volume,	WEIGHT (Subject to	RATE	CHARGE (For Carrie

Route		ANEE-43BE				cle ber		
No.of Units & Container Type	нм	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIC (Subje	ct to	RATE	CHARGE: (For Carrie Use Only)	
1 3049 NeWeff		Revenal Constauction Debuis						
							_	

PLACARDS TENDERED:YES THE	TIME	DED-VEC	TEND	DNC	ACA	DI

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding.

per

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are desaitled, packed, marked and lebeled, and are in all neapects in proper condition for transport by # Rail # Highway # Water IDELETE HON-APPLICABLE MODE OF TRANSPORTS according to applicable international and national governmental regulations.

REMIT C.O.D. TO: ADDRESS

COD

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consigner without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Amt: \$

C.O.D. FEE: PREPAID COLLECT

TOTAL CHARGES:

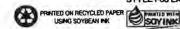
FREIGHT CHARGES

FREIGHT PREPAID except when box at notit is checked

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destuned as indicated above which said carrier (the word carmer being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if in its route, otherwise to deliver to another carrier of the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of	said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lating terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.
SHIPPER 45 ARMY GAR & ENGINEERS	CARRIER Edward Mornie
PER Simoth / Polem	PER
//	DATE

Permanent post-office address of shipper

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60846 800/621-58(





P.R.T.R. INC.

791 BOSTON POST ROAD

MARLBOROUGH, MA 01752 CUSTOMER'S NAME WASTE TEL. 481-0336 ADDRESS _____ COMMODITY DEANO LOOP #20

TARE - DRIVER ON ______OFF _

PER LB. PRICE _

DATE __

CARRIER __

SHIPPER _

WEIGHER _ DUMPSTER NO.

WINDOW STICKER

10-27-94 15:00

16 GR 53600

1b TA 52980

20620 15 NT



G State Town

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

	-			-		-	-1			-	_	$\overline{}$	-	_
11	S	TRA	IGH	1T	BI	LL	0	F	LA	D	IN	G		

ORIGINAL-NOT NEGOTIABLE

1	
WHSLE THANK	genent of contral 214

Carrier No.

Shipper No.

	WHSLE WHOUNGERENT OF CE
age of	(Name of carrier

5810 () 21

1

10/27/94 Date

TO: Shippe	TO: Consignes PRTR INC	Suibbe
		Chinne

USHLE Shipper 2613 Lake George St Street

(SCAC)

+ Devens City

State MA

Zip Code 0/432

City MHALborrough State 24 4

791 Boston Post Ronal

Zip Code 0/75 Z

hereby declare that the contents of this consignment an

I hestery declare that the contents of this consignment are fully and socurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by ER Ball & Highway E Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

24 hr. Emergency Contact Tel. No. -

Vehicle

Route		ALLE-UBBE		Vehicle Number		
No.of Units & Container Type	нм	BASIC DESCRIPTION Proper Shipping Name, Hezard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	(For Carrie Use Only)
1 30yd No HOFF		General Construction Debnis	1	- 0		
					-	

P	LA	CA	RD	S	TEND	FRED	:YES	□NO	П
		•		-					

Note - Where the rate is dependent on value, shippers are

required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding.

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the onsignee without recourse on the consignor, the consignor shall sign the

Subject to Section of the considerity, it was shipment is to de delivered onsignee without recourse on the consignor, the consignor shall st cliowing statement:

The carrier shall not make delivery of this shipment without pays reight and all other lawful charges.

PREPAID COLLECT TOTAL CHARGES

FREIGHT CHARGES
FREIGHT PREPAID
Accept when box at right is checked

C.O.D. FEE:

RECEIVED, subject to the classifications and fawfully filed fairlifs in effection the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout his contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at add destination, if on its route, otherwise to deliver on another carrier on the route to is said destination. It is multiply agreed as to each carrier of all or any of, said property over all or any portion of

said route to destination and as to each party at any time interested in after any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of stropment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER OF ENGINEER PER

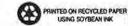
& Mai CARRIER

PER

DATE

Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-58





P.R.T.R. INC. 436978 791 BOSTON POST ROAD DATE _ MARLBOROUGH, MA 01752 CUSTOMER'S NAME 1 15 CC 5TE TEL. 481-0336 ADDRESS _____ 10-27-74 COMMODITY _ TOY :1117 LOOP # 8 NET @ _____ PER LB. PRICE _____ 10-27-94 13:52 64840 1b GR SHIPPER _______ 34120 1b TA DUMPSTER NO. 30720 1b NT WINDOW STICKER

MUN. COLLECTION - NO.

Weighed on a Fairbanks Scale

V-7-7	USING SOVBEAN INK	Sowie
_	The solocal will	COCHAN

ATTENTION SHIPPERS!

THE SALLSON THEY

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

" and I'm Now	STP	AIGHT BI	II OF	LADING
SHOUT .	THE SHARE	All and the second seco	Anna Committee and the second	The state of the s
	1	ORIGINAL -N	OT NEGOTI	ARIF

ORIGINAL -NOT NEGOTIABLE

1.4	OUIGINAL HOLIER	GOTIABLE	
Waste	MANAGE NEWT	of certhal	MA

Shipper	No.	

Carrier No.

Page	of	-

(Name of carrier) (SCAC)

Date

10/3/19

On Collect on Delivery shipments, the letters "COD" must appear before consigned's name or as otherwise provided in firm 430, Sec. 1 TO: PRTR INC Consignee

FROM: Shipper

USACE

2013 lake George St

791 Boston Post Road

State MA Zip Code 0/432

City MALLBOROUGH State MA

Zip Code 01752

24 hr. Emergency Contact Tel. No.

Vehicle AREE-83-BE, AREE-694, SALET Route Number **BASIC DESCRIPTION** TOTAL QUANTITY WEIGHT CHARGES No.of Units HM Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group; per 172,101, 172,202, 172,203 (Weight, Volume Gallons, etc.) (Subject to RATE (For Carrier Use Only) & Container Type Correction) 13049 General Construction Debnis Rollett

PLACARDS TENDERED: YES NO

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared

value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

100

hereby declare that the contents of this consignment are I hareby declare that the contains of this conjournent are fully and accurately described above by proper ahipping name and are classified, packed, marked and tabeled, and are in all respects in proper condition for transport by # Rail # Highway # Water (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to applicable international and national governmental regulations.

Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the ansignee without recourse on the consignor, the consignor shall sign the flowing statement:

The carrier shall not make delivery of this shipment without payment of reight and all other lawful charges.

(Signature of Consignor)

C,O.D. FEE: PREPAID | COLLECT |

TOTAL CHARGES:

FREIGHT CHARGES

RECEIVED, audject to the classifications and flawfully filed familia in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the world carrier being understood throughout this contract as meaning any person or exposition in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, it on its route, otherwise to deliver a norther carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of

said route to destination and as to each party at any time interested in all of any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

PER

FOR T. COLLMAN

CARRIER

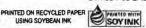
PER

DATE

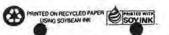
Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-580





DATE	1196	MARLB	T.R OSTON PO OROUGH FEL. 481-	OST ROA	AD .
ADDRESS	<i>b</i> 5	11- 7400	01-94 1 b	15:0 I M LOOL	01
TARE DRIVER ON OFF NET @ PER LB. PRICE		11-	-01-94	15:	
SHIPPER			400 060	1 b	5R TA
DUMPSTER NO. WINDOW STICKER MUN. COLLECTION – NO.		23	340	16	NT
Weighed on a Fairbanks Scale					



ATTENTION SHIPPERS!

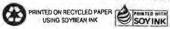
FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

Shipper No.	-

NAL-NOT	NEGOTIABLE	

Page	of	-	Waste MANAGEM	ent of Cent	Hal MA (SCAC)	Dar Dar	in	31/94
TO: Consignee PR	TRIN	oc	÷ (+ 5) × ÷ ·		ACE	.14		
	Bosto	n Post R		Street 2613 City FF De	vens	State WH	Zip Code	01432
City MACIB	onougi	A State M/M	Zip Code 0/75-Z	24 hr. Emergency Co	ontact Tel. No.	Ve	ahicle	
No.of Units & Container Type	нм	Identification	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Number (UN or NA), Packing Group, per 172.10	Colores Search	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGE (For Carre Use Only
13eyel Kolloff			Construction Debzis					
PL	ACAR	DS TENDE	RED:YES NO	REMIT C.O.D. TO: ADDRESS	11			
Note — Where the rate required to state specification of the property			I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and	COD Amt: \$			EPAID [
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding. Highway # Weiter (DELETE NON-APPLICABLE MODE OF TRANSPORT) according to spicial proper confide the international and national governmental regulations.			Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. TREIGHT CHARGES: FREIGHT CHARGE FREIGHT PREPAID Check box				ARGES ech bote if charges are to be copiled	
this Bi conditi which corpo delive	li of Lading, the ion of contents said carrier (the lation in posses by at said destin	property described above of packages unknown), r word carner being underst ssion of the property undi- tation, if on its route, other	lawfully filed tariffs in effect on the date of the rissue of in apparent good order, except as noted (contents and narked, consigned, and destined as indicated above god throughout this contract as meaning any person of er the contract) agrees to carry to its usual place of wisso to detiver to another carrier on the route to said er of all or any of, said property over all or any portion of	service to be performe governing classification Shipper hereby cert	n and as to each party at any time inter of hereunder shall be subject to all the non-line date of shipment illuses that he is familiar with all time to n and the said terms and conditions of his assigns	e oil of lading lerms	and conditions in the and conditions in the	2
SHIPPER	und l	Hut	A FORT, IOLKINGEN	CARRIER	NEC			
PER				PER				
				DATE				
Permanent post-offic	a address of	shipper		STYLE FROLARS	EL MASTER An American La	helmark Co. Ch	nicano II 60646	800/621-58





437591



P.R.T.R. INC. 791 BOSTON POST ROAD

CUSTOMER'S NAME	. 1 / 1 /	MARLBOROUGH, MA 01752 TEL. 481-0336			
ADDRESSCOMMODITY	11-01-94 ::::アルムの よい	7:58 -1:34 -1:00p #12			
TARE DRIVER ONOFF) 11-01-94 57460				
DUMPSTER NO. WINDOW STICKER	34300 23160	15 TA			
MUN. COLLECTION - NO					



ATTENTION SHIPPERS!

FREIGHT CHARGES, ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

	ш
-	

Shipper No.

	1
	n
L	u

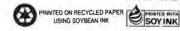
STRAIGHT BILL OF LADING

ORIGINAL-NOT NEGOTIABLE

			WASTE MANAGERE	ent of Cont	Gual MA	Carrier N			
age			(Name of o		(SCAC)	Da	te 10/2	5/94	
10: -	TLZ		consignee's name or as otherwise provided in Rem 430, Sec. 1	minhin					
		n Post lo	mal	City F+D	s iahu George evens	State WA	Zip Code	01432	
City Muelbox	ough	State 747	Zip Code <i>01752</i>	24 hr. Emergency C					
Route			HKEE-C:	BE		N	ehicle umber		
No.of Units & Container Type	нм	Identification	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Number (UN or NA), Packing Group, per 172.101	1, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	(For Carr Use Onl	
la Woff		General	Construction Bebris.						
					+				
PL	ACAR	DS TENDE	RED:YES \(\price NO \(\price \)	REMIT C.O.D. TO: ADDRESS					
Note — Where the rate required to state specification of the property	e is dependent of ically in writing t	on value, shippers are the agreed or declared	I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and	COD	Amt: \$ C.O.D. FEE: PREPAID COLLECT C		EPAID [
The agreed or decl specifically stated by I		he property is hereby ie not exceeding	are in all respects in proper condition for transport by E Rell E Highway E Water (DELETE NON APPLICABLE MODE OF TRANSPORT) according to applicable international and na- tional governmental regulations.	Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:			HARGES: \$	\$	
\$			freight and all other lawful charges.				Disco Dos il charge		
this B condi- which corpo delive	ill of Lading, the tion of contents said carrier (the ration in posses	property described above of packages unknown), r word carrier being underst ssion of the property und nation, if on its route, other	lawfully filed I artifs in effect on the date of the issue of in apparent geod order except as noted (contents and narked, consigned, and destined as indicated above ood lindughout this contract as meaning any person or er the contract) spress to carry to its usual place of rivise to deliver to another carrier on the route to said are dail or any of, said property over all or any portion of	service to be perform governing classifical Shipper hereby c	tion and as to each party at any time in member shall be subject to all lion on the daie of shipmen ertifies that he is familiar with all the tion and the said terms and condition and his assigns.	the bill of lading terms	s and conditions in II	ne ne	
SHIPPER 45	Any	Pers	of Enlayations	CARRIER P	levard Mo	~			
PER Sun	de	1 Cn	of Englishons	PER					
		/		DATE					

Permanent post-office address of shipper.

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-54





437215

P.R.T.R. INC.

791 BOSTON POST ROAD MARLBOROUGH, MA 01752

CUSTOMER'S NAME ______ TEL. 481-0336 ADDRESS __ COMMODITY _____ 100P #10 CARRIER ____ TARE - DRIVER ON _____OFF ___ NET @ ______PER LB. PRICE ____ 16:08 10-28-94 54760 lb 6R SHIPPER _ 33660 lb TA

WINDOW STICKER

MUN. COLLECTION - NO.

Weighed on a Fairbanks Scale

DATE _

E1100 15 NT



ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT	BILL	OF L	ADING

Shipper No. ORIGINAL-NOT NEGOTIABLE

		Wish Mannge wen	t of centra	PUA	Carrier No.		
Page	of	(Name of		(SCAC)	Date	10/2	76/94
	Abar 31	State MA Zip Code 11437	Street ZC/3 City H But 24 hr. Emergency Co	USHCE Lake George LEWS S	e St State WA	Zip Code	V43Z
Route		KNEE	-63BE		Vehicl Numb		
No.of Units & Container Type	нм	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101	and the state of	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	(For Carrie Use Only)
r-3049 Rolloff		General Construction Debais				П	
DI	ACAB	DS TENDEDED. VES INO II	REMIT				
Note — Where the rate	1 1 2 2 7	DS TENDERED: YES NO or value, shippers are	COD TO: ADDRESS		COD		
required to state specifi			COD	Amt: \$	PREPA	D	

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all raspects in proper condition for transport by # Rail # Highway # Water (DELETE NONAPPLICABLE MODE OF TRANSPORT) according to supticable international and national governmental regulations.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

COD

Subject to Section 7 of the conditions, if this shipment is to be delivered to the onsignee without recourse on the consignor, the consignor shall sign the

consignee without it following statement: The carrier shall

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of Consignor)

COLLECT | TOTAL

CHARGES

FREIGHT CHARGES
FREIGHT PREPAID Check box 4 cr
escapt when box at an an angle at checked

RECEIVED, subject to the classifications and flawfully filed familis in effection like date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout his contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination fit is mutually agreed as to each carrier of all or any of, said property over all or any portion of

said route to destination and as to each party at any time interested in all or any said property that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of stiments. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER F ENGINGERS CARRIER

PER

DATE

Permanent post-office address of shipper

PRINTED ON RECYCLED PAPER PRINTED WITH USING SOYBEAN INK

STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-58

436039 Ohm

1		-
1	-	
1		2
1	30	
1	44	
	4 .	

P.R.T.R. INC.

791 BOSTON POST ROAD

CUSTOMER'S NAME		MARLBOROUG TEL. 481	H, MA 01752
COMMODITYCARRIER	74.73	10-27-74 TO TO 15	11:23 IN LOOF #29
NET @ PER LB PRICE SHIPPER	•	10-27-94 47040	11:39 16 68
WEIGHER		33090 13960	16 TA
Weighed on a Fairbanks Scale			

of

HM

Page

TO:

Route

No. of Units

& Container Type

lo dove

3000

5

STRAIGHT BILL OF LADING

Shipper No. ORIGINAL-NOT NEGOTIABLE Carrier No. Wrishe money exent or central zer Date 10/24/94 (SCAC) FROM: USHLE Shipper consigned Kitchbury (westwin stone landfill Street State 314 Zip Code 0/43Z City City Western Stanstate 2014 Zip Code 01475 24 hr. Emergency Contact Tel. No. HHEE- 638F Number BASIC DESCRIPTION WEIGHT CHARGES TOTAL QUANTITY (Weight, Volume, Proper Shipping Name, Hazard Class (Subject to RATE (For Carrier Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203 Gallons, etc.) Correction) Use Only) General Constantion Debuis

PLACARDS	TENDERED:	VES TINO	

Note — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding.

I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are that expects in process condition for transport by \$1 fail of this packed, and the packed in tional governmental regulations

SOVINK

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$ Subject to Section 7 of the conditions, if this shipment is to be delivered to the

consignee without recourse on the consignor, the consignor shall sign the onsigned will not be a selected of this shipment without payment of the carrier shall not make delivery of this shipment without payment of

reight and all other lawful charges (Signature of Consignor)

COD FEE PREPAID G

CHARGES

FREIGHT CHARGES

RECEIVED, subject to the classifications and fawfully filed fariffs in effect on the date of the issue of HELE/VEU, support to the crassinizations and is awardly filted it aims in enterior on the date of the state of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its ordice otherwise to deliver to another carrier on the route to add destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of

said route to destination and as to each party at any time interested in all or any said property. That every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing plassification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms, and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

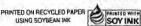
ORP OF ENGINEERS SHIPPER

CARRIER

PER

DATE

Permanent post-office address of shipper



STYLE F60 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-580

43681.1 C HAI



P.R.T.R. INC. 791 BOSTON POST ROAD

CUSTOMER'S NAME		4/01	MARLBOROUGH TEL. 481		752
COMMODITY TO COMMODITY TO COMMODITY	7.	46	10-26-94 5700 110	14:	F #11
TARE DRIVER ON OFF NET @ PER LB. PRICE SHIPPER	- (<i>/</i> -		10-26-94 46700	14:	
DUMPSTER NO.			33800	16	TA
WINDOW STICKER MUN. COLLECTION - NO Weighed on a Fairbanks Scale	-		12900	16	NT

Appendix D

On-site Laboratory Documentation

Pg. 1 of 2

Date: 12-02-94

Site Name: AREE 63BE

Weather: Sunny & Mild

Samplers: MGQ / MRB

ID NUMBER		Comp/ Grab		Coord Ref. PtA	inates Ref. Pt/a	Sample Description	# of Bottles
70 EW 86	Ğ	1115	u'	57'4"	52'	Brown Clayer Send	1x40m Vial
W87		(120	u'	60'3"		Gray: Brown Clayen Sand	
พลล		1125	II.	65',3" 76	76'9"	, , , , , ,	
wso		1133	q'	58'8"	44'9"	Brown Clayery Sond	
WBI		1136	9'	62'5"	63'5"	9 1	1 - 1
M85		1138	86"	72' 11"	38 (3	Gray send	
w83		1142			40'5"	moist gray send	
w84		1145	7'	65'3"	54'6"	gray clayer sond	
Ref. Pt. G			No				
Map Attach	ed: Y	es)	INU				
Map Attach Sample Typ				onfirmation	on Dis	posal/Characterization	
	oe: 🤇	Screenir	ng C				#
Sample Typ	pe:	Screenir	ng C	ab As	SC - coc#		#
Sample Typ	Destination	Screenination:	Onsite L	ab As	SC - coc #	USACE- coc	#
Sample Typ	Destination	Screening ation: cate Takesite Lab	Onsite Len: Yes	ab As	SC - coc #	USACE- coci	#
Sample Typ	Destination Duplic	Screening ation: cate Takesite Lab	Onsite Len: Yes	ab As	Ri ustody/Re	USACE- cocionsate Taken: Yes No equest for Analysis ne PCBs Other	

Page of |

Location No.: AREE 63BE Date: 12.2, 94GC Analyst:

TPH Analyst: Miss

Method 8080

Site: Ft. Devens, MA

Concentration (mg/kg)	Action	W73		W81	AR63	7.597		W85	W86	W87	W88						
TRPH	500 ppm	1585	152	794	3690	2790	6187	807	107	335	65	1					1-5-
ro e	500 ppm																•
	500 ppm					Anne Ac	AL INCIDENT							U3804		-	GC#

I - indicates estimated concentration less than practical quantitation

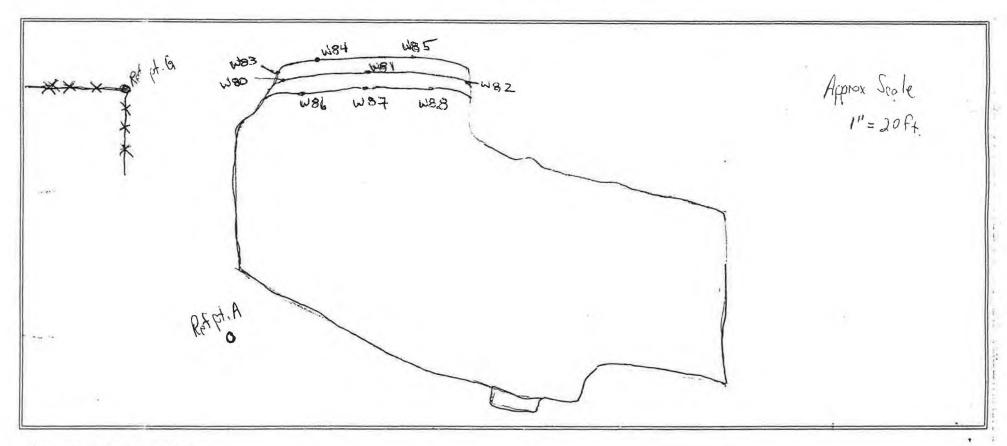
Note: W73 collected on 11/30/94

Sample Location Map Fort Devens - Project #16208

Pg. 2 of 2

Date: 12-02-74

Site Name: AREE 63BE.



Comments/Observations:

w86, w87: w88 are mislabeled on flags as w76, w77; w78, respectively,

Bulding 2299

Prepared by: M. Ovinlan

Pg. Lof_3

Date: 12-07-14

Site Name: AREE 63BE

Weather: Overcost : Rainy

Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)		dinates Ref. Pt.	Sample Description	# of Bottle	
50 AR63BE U89	0800	4	9.5			Gray Sondy w/ some o	abble 1 x 40	
B28	0804		12	See	hok	iv 11 1		
w 90	0807		9.5			any changey sand in ad	lor lor	
329	0810		12			in n wi	cobble	
641	0815		9.5			1, - 1, 4		
RSO	0818		12			ti ti ti		
wq z	0822		9.5			ii to to		
B3-1	0825		12			· · · · · · · · · · · · · · · · · · ·	1	

Ref. Pt. : Sidewall sampled was measured off building
Ref. Pt: See Map
Map Attached: Yes No
Sample Type: Screening Confirmation Disposal/Characterization
Laboratory Destination: Onsite Lab ASC - coc # USACE- coc #
Duplicate Taken: Yes No Rinsate Taken: Yes No
On-site Laboratory Chain of Custody/Request for Analysis
Requested Testing: TPH BTEX Chrordane PCBs Other
Requested Testing: TPH BTEX Chrordane PCBs Other 12-07-94 Relinquished by(dd/tt): Maker N June 915 Received by (dd/tt): Maker N June 12-07-
Relinquished by(dd/tt): Received by (dd/tt):

Pg. 2of_2

7ate: (2-07-94

Site Name: AREE 63BE

Weather: Overcost ! rains

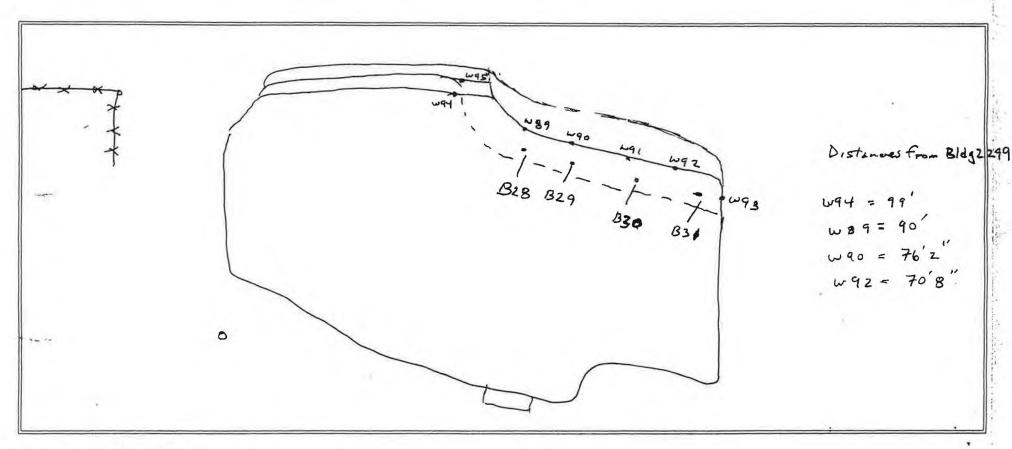
Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)		dinates Ref. Pt.	D	Sample _ escription	# of Bottles
W43	0830	G	14		Map	moist gr	and clatent.	(40m
wat	0835		(2.5	See		11	()	
U 95	0840	y	10			15	+ 1,	1
							W.	

Ref. Pt:
Ref. Pt:
Map Attached: Yes No
Sample Type: Screening Confirmation Disposal/Characterization
_aboratory Destination: Onsite Lab ASC - coc # USACE- coc #
Duplicate Taken: Yes No Rinsate Taken: Yes No
On-site Laboratory Chain of Custody/Request for Analysis
Requested Testing: TPH BTEX Chlordane PCBs Other
Relinquished by(dd/tt): Received by (dd/tt):
Relinquished by(dd/tt): Received by (dd/tt):

Date: 12-07-94

Site Name: AREE 63BE



Comments/Observations:

Bldg 2299

Prepared by: M. Quinlon

ARGE Page of Site: Ft. Devens, MA Location No.: Date: /2.07-94GC Analyst: TPH Analyst: MGQ Method 8080 Sample ID Concentration Action (mg/kg) Level Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl Method 418.1 Sample ID SBAR63BE Concentration Action W94 W95 W89 W90 W92 W93 B28 B29 530 B3 / W91 (mg/kg) Level 97 500 ppm 735 1,789 1,615 50 1,165 464 2,209 55 274 TRPH 347 500 ppm 500 ppm

Sample

Description

moist grey silt, small publics, strong

moist yellowith grey clay mixed u/send

organic smell, orange brown organic

Sal, light roots

Received by (dd/tt):_

Date: 9-27 - 94

ID Number Time

BLOG 2790 B1 1/20

WI

12

Relinquished by(dd/tt):_

Sample

Bldg. Site Name: ZZ90

Coordinates

Weather: COOL, OUERLAST

1126

Comp/ Sample

9

8

15"

21

Samplers: BD

Grab Depth (ft) Ref. Pt. Ref. Pt.

Pg. 1 of 2

of

Bottles

VUN

1440~1

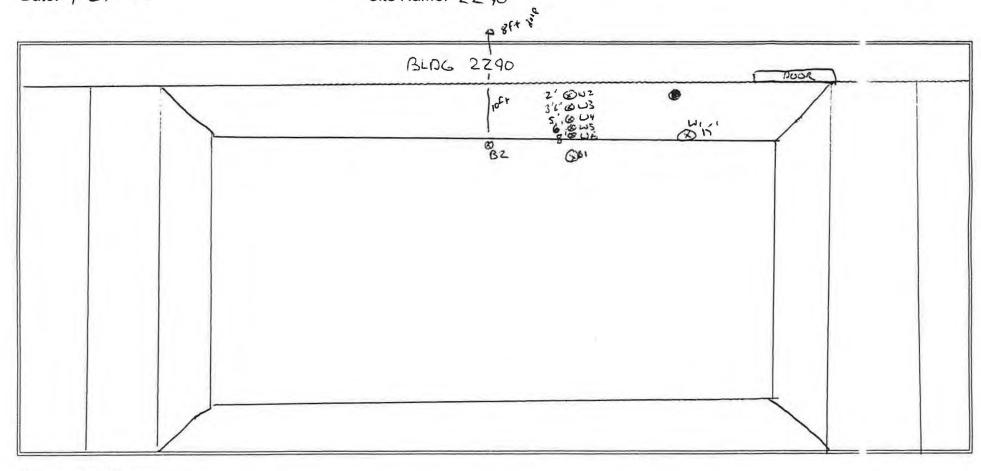
	U3 1/30	9	3'6"			YELIOUS SALLO	
	W4 1134	4	5'			Light color sand, Stight petrol odor	
	US 1136	9	6'			cause 19nt of derk grain sand some small Albirs, yelloush	
	U6 1140	4	8'			gien clay, strong petrol odon	
1	BZ 1215	9	10'	8 feeting	nd Bld,	vetyellorsh grey's nell publics	D
Map /	Attached: (Y	es I	No	445.0		sposal/Characterization	
	ratory Destina	ation:	Onsite La	ab As	SC - coc	sposal/Characterization # USACE- coc #_ tinsate Taken: Yes No	
Requ	On-s	site Labo	oratory Ch	nain of C	ustody/R	equest for Analysis ne PCBs Other	
	The state of the s					Received by (dd/tt):	

Sample Location Map Fort Devens - Project #16208

Date: 9-27-94

Site Name: 22 90

Pg. 2 of Z



Comments/Observations:

Note: All semples collected from underneath Bldg. 2290

Prepared by: Bill L

Page of 1

Location No.: SA36 Date: 9.27.94 GC Analyst: MRB TPH Analyst: MRB Site: Ft. Devens, MA Method 8080 Sample ID SDSA365D Concentration Action 133 WG BY (mg/kg) Level Aroclor 1260 2 ppm .3 chlordane 1 ppm DDT Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl

Concentration (mg/kg)	Action Level	Samp	Wi	Wz	W3	Wy	W5-	WE	B2.					
TRPH	500 ppm	2087	2.74	ÜD	WD	ND	ND	3904	3147					
AHC		595	85	ND	ND	NU	Np	1057	४०४			 	-	
	500 ppm													
	500 ppm													

Pg. Of 3

Date: 11-02-94

Site Name: AREE 638E (2290)

Weather: Windy & cold

Samplers: MGQ

Sample ID Number	Time	Comp/ Grab		Coord Ref. Pt.4			nple ription	# c	
AR63B€ BI	رنين	9	10	366"	45'6"	gray clay	ey sand	124	m
BZ	1408		10	46'6"	44'	15	c r tr		
B3	1410		10	38'6"	52'9"	Brown son	ed . ul soma		
wl	1415		8.5	31'6"	44'	gray cla	iyey sond		
W 2	1418		8.5	47	35 9"	tx	ic ti		
w3	1425		9	57	49'9"	()	7.7		
B4	1427		10.5	51'6"	57	1.	11 4		
wf	1430	1	9	596"	619"	Brown	sond	6	

34	1427		10.5	516"	57	1 .	i e	4	
wt	1430	1	9	5961	619"	Brown	Sav	لے ،	6
Ref. Pt. <u>A</u> :	Util	ity	Pola	>	See m	cp			
Map Attach									
Sample Typ	Destination	on:	Onsite La	ab As	SC - coc#	osal/Characte	_ USA	.CE- coc #	·
	On-site	Labo	oratory Cl	hain of C	ustody/Re	quest for Anal	ysis		
Requested	Testing:	TP	H / B	TEX	Chlordan	e PCBs o leceived by (do	Oth	ner	
Relinquishe	d by(dd/t	t)://	telal X	1. Lul	11/03/54 15 3	deceived by (do	1/tt); <u>ठ</u>	RB1e-	11.7.97
Relinquishe	ed by(dd/t	t):			F	teceived by (do	d/tt):		

Pg. 2 of 3

7ate: 1(-02-94

Site Name: AREE 63BC (2290)

Weather: windy = cold

Samplers: MG Q

Sample ID Number	Time		Sample Depth (ft)				nple ription	# of Bottles
AR63 BE	1435	G	(0'	59'	61'	grayish	clay	1 x 40 m l
W6	1440	11	101	46'9"	62'6"	35		
w7	1443	a	9,5	33'4"	55'	grayish cla	yel sandul	4
							34.5	
Ref. Pt Ref. Pt Map Attach	:		29. 1 No	*				
Sample Ty _l Laboratory				confirmation		oosal/Characteri	zation USACE- coc #	

On-site Laboratory Chain of Custody/Request for Analysis

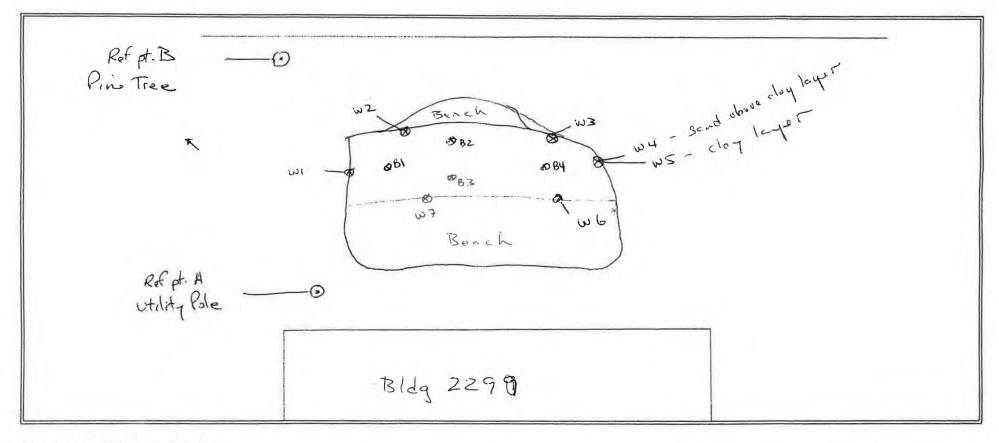
Requested Testing: TPH BTE	Chlordane	PCBs	Other
Relinquished by(dd/tt):	Reco	eived by (dd/t	t):
Relinquished by(dd/tt):	Rec	eived by (dd/t	tt):

Sample Location Map Fort Devens - Project #16208

Date: 11-02-94

Site Name: AREE 63BE

Pg.3 of 3



Comments/Observations:

Prepared by: M. Quin lan

Page of (Location No.: AREE63 Date: 11.2.74 GC Analyst: Site: Ft. Devens, MA TPH Analyst: BE Method 8080 Sample ID Concentration Action (mg/kg) Level Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl SBAR63BE Method 418.1 Sample ID Concentration Action 607 Bi BZ B3 B4 43 W1 601 W2 45 6 Level (mg/kg) 399 8.2 3331 1895 TRPH 500 ppm 6048 1264 3067 897 1354 1400 5154 500 ppm

500 ppm

				200
Date:	11	1	3 :	94

Site Name:

AREE 63BE

Pg. Lof 2

Weather:

Sunny/cool

Samplers:

MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)		dinates Ref. Pt	Sample Description	# of Bottles
SB AR 63BE B5	1036	6	14'6"	46'	471	goldoù clar	1x 40 ml
B6	1046		10'	21	63	med samp soil	, co
B7	1047		10'	25,5'	58'	Gollash chard coloble	1:
138	1050		10'	30.5	53'	Goldish clay wealible	Τt
W8	1038		13'6"	451	47	Soil Story IPH only	τ_{i}
W9	1052		91	181	60'	Coldente clay u	it
Wio	1055		8'	21'	59'	Goldon clay is complete	17
WII	1059		81	26'	53'	Biecle areas, stery petrol	3.6

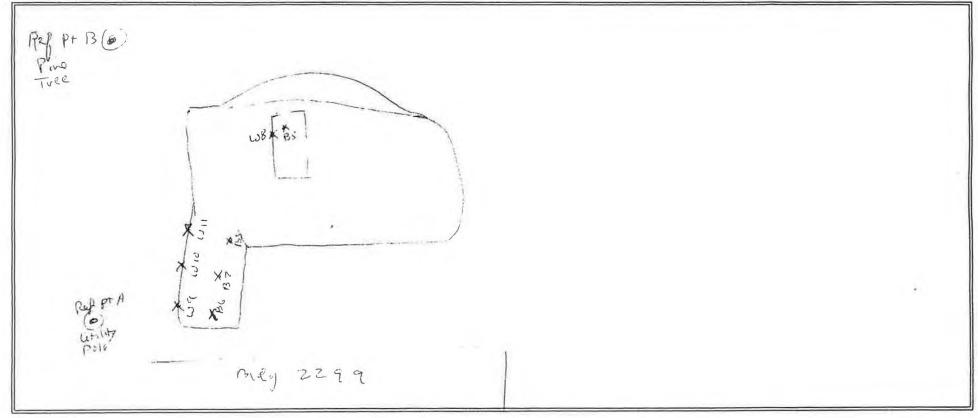
Ref. Pt. A: whility Pole \ see map
Ref. Pt. B: Pine Tree
Map Attached: Yes No
Sample Type: Screening Confirmation Disposal/Characterization
Laboratory Destination: Onsite Lab ASC - coc # USACE- coc #
Duplicate Taken: Yes No Rinsate Taken: Yes No
On-site Laboratory Chain of Custody/Request for Analysis
Requested Testing: TPH BTEX Chlordane PCBs Other
Requested Testing: TPH BTEX Chlordane PCBs Other
Relinquished by(dd/tt): Received by (dd/tt):

Sample Location Map Fort Devens - Project #16208

Date: 11.3:94

Site Name: ARFE63BE

Pg.Zof_Z



Comments/Observations:

Not to scale

Note: P.5 is apparentally of 3. to

Prepared by: ___________

Page 1 of 7 Location No.: AREE 63 Date: 11.3.94 GC Analyst: ite: Ft. Devens, MA TPH Analyst: MRB ethod 8080 Sample ID oncentration Action (mg/kg) Level roclor 1260 2 ppm chlordane 1 ppm ³ercent Recovery 2,4,5,6-tcmx decachlorobiphenyl 1ethod 418.1 SBAR63BE Sample ID Concentration Action 135 136 137 WS 129 Wio Wil (mg/kg) Level 500 ppm 325 **TRPH** ND 1112 NO 2010 6477 196 2171 500 ppm 500 ppm

 $Pg.\underline{\ \ }of\underline{\ \ }$

Date: 11-08-94

Site Name: AREE 63BE

Weather: Windy, Overcastis

Samplers: M. Blee in

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)			Sample Description	# Bot	
AR 63B€ B9	5937	G	(3'	29'7"	66'9"	Wet yellow Han clay	124	Om
Bio	کوره		13	353"	55	yellow sandy clay clobb	4 1	
Bii	1003		13"	35 11	4716	wet yellow/gray clay		
1312	5140		10'9"	26'4"	453"	Tan sand & clay sim		
WIZ	CCP.C		9'3"	15'7"	58 6"	Tan Clay		
wi3	sal		8'9"	20'9"	505"	yellowlorange clay		
wif	0925		10'6"	(8 7"	59'3"			
w15	5,23	1	8 9"	25'3"	69'7"	ii is		-

Ref. Pt. A: Utility Pola Ref. Pt. B: Pine Tree	
Map Attached: Yes No	
Sample Type: Screening Confirmation Laboratory Destination: Onsite Lab ASC Duplicate Taken: Yes No	Disposal/Characterization - coc # USACE- coc # Rinsate Taken: Yes No
On-site Laboratory Chain of Cust	ody/Request for Analysis
	thlordane PCBs Other
Relinquished by(dd/tt):	Received by (dd/tt):

Pg. 2 of 3

Date: 11-08-94

Site Name: AREE 63BE

Weather: Windy, over cost: Samplers: M. Bleau

ID Number	Time	The second secon	Sample Depth (ft)		inates Ref. Pt.	Sample Description	# of Bottles		
BARG3BE WIG	0 932	9	10'6"	3515"		ovoral said standard black strong sweet, cololede			
FIN	(003		916"	4912"	39'	gold grey clzy, some			
8iw	0958		113"	36'3"	39'1"	1. to of Course TPH small			
W 19	0945		89"	28'4"	42'6"	Ten sand wolded spees			
WZO	0955	1	11'3"	24'71	51'10"	gold said w black stains, cabible			
						, i			
		()+,1;=	1	a					
Ref. Pt. B	:	Pins	+7 P.1.	<u>.</u>			<u> </u>		
	:	Pins	1	<u>.</u>			_		
Ref. Pt. <u>B</u> Map Attach	:	Pina	No	-S onfirmatio	on Dis	posal/Characterization			
Ref. Pt. B Map Attach Sample Typ	ed: Y	es Screening	No C	onfirmatio					
Sample Typ	ed: Y pe: S Destina	es Screening ation:	No C	onfirmation	SC - coc#	posal/Characterization USACE- coc #_ insate Taken: Yes No			

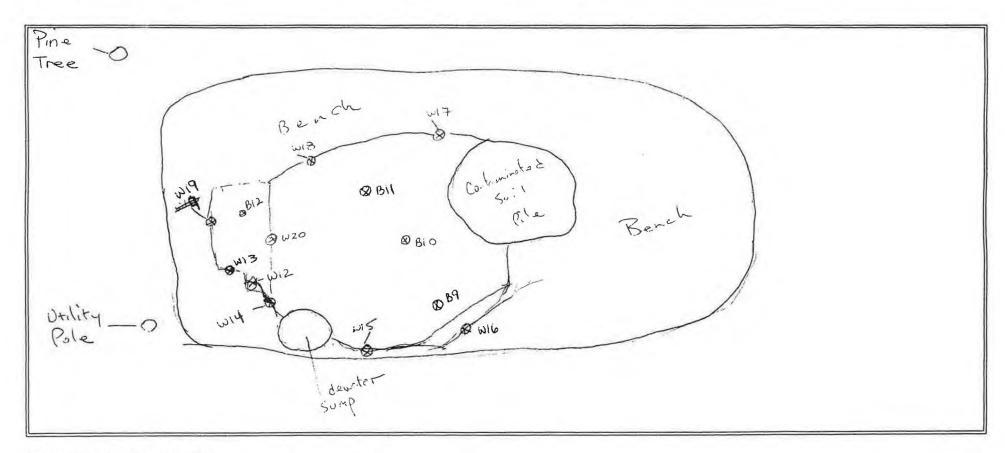
Requested Testing: TPH BTEX Chlordane **PCBs** Relinquished by(dd/tt):_ _____ Received by (dd/tt):_____ Relinquished by(dd/tt):_ Received by (dd/tt):_____

Sample Location Map Fort Devens - Project #16208

Pg.3_of_3

Date: 11-08-94

Site Name: AREE 63BE



Comments/Observations:

Total Depth of execution estimated at 13'.

Sheen present of water in bottom of excavation.

Prepared by: M. Our

				AO	REEC	03BE												Page	101	
Site: Ft. Devens	, MA	Loca	tion N	o.:			Date	. 11.	8.74	GC A	nalyst				TPH A	Analys	t: /1	00		
Method 8080				Tu	STZ	651											7 .	14 12		
La estada a		Samp	ole ID							-										
Concentration (mg/kg)	Action Level																			
Arocior 1260	2 ppm																			
chlordane	1 ppm								14-16									1		
Percent Recove	erv																			
2,4,5,6-tcmx	-/		0				11 = 1		-										125	
decachlorobin	ohenyl		-	200				3.1							1.53					
Method 418.1	-	Samp	ole ID	SBA	R63B	Ē									u	ST 2	651			along to
Concentration (mg/kg)	Action Level	Bq	B10	Bu	B12	1	W13	W14	W15	W16	W17	Wis	いれ	ωzo	1361	1562				
TRPH	500 ppm	ND	ND	64	2472	816	40	Np	ND	8126	274	4002	t-1370	4838	57	125				
															_		_	- 17-1		-
				- 1					144											
	500 ppm															-				
								*******								-				-
	500 ppm																			

J - indicated estimated concentration below practical quantitation limit ND - TPH not detected

Date: 11 . 9 . 9 4

HREEG3BE Site Name:

Pg. 1 of 2

Weather: clardy, overcost Samplers: MRB

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)			Sample Description	# of Bottles
SD AR63BE W21	1004	6	10'	29'8"		Lt Brown Szu&	(X40x)
W27	1006		101	35'4"	82'2"	Some vonce	1
W23	1007		10,8,	42'6"	85'0"	Grey green clex, some some cubble, TP(+ small, binicspots	
424	(01)		10 '4"	4517"	82'8"	over green clas some small overge sendy spots beach spots	
w25	1014		11 4"	48'0"	74'2"	stong TPH sness, black spots'	
L026	1019		10'6"	46'10"		+PH sned, black spots	
627	1021	J	11'9"	51'4"	46'4"	BIZCIC String sand STRONG TPH Smell	

Ref. Pt. A: Utility Pole	
Ref. Pt. B: Pine Thee	
Map Attached: Yes No	
Sample Type: Screening Confir	rmation Disposal/Characterization
Laboratory Destination: Onsite Lab) ASC - coc # USACE- coc #
Laboratory Destination: Onsite Lab Duplicate Taken: Yes N	
Duplicate Taken: Yes (N	
On-site Laboratory Chain Requested Testing: TPH BTEX	Rinsate Taken: Yes No of Custody/Request for Analysis Chlordane PCBs Other
On-site Laboratory Chain Requested Testing: TPH BTEX	Rinsate Taken: Yes No

Sample Location Map Fort Devens - Project #16208

Date: 11.9.94

Site Name:

AREE 63 BE

Pg. 2 of 2

され · 010 · 3 11

Comments/Observations:

Prepared by: MRB

	1
D- 1	-52
Pg.	_of

Date: 11.9.94

Site Name: AREE 63BE

Weather: overcast, wind Samplers: MORB

	Sample ID Number	Time			Sample Depth (ft)	Ref. Pt.	Ref. Pt	Sample Description	# of Bottles
E	B13	1442	9		13'	42'10"	59'34	yellowed sand, soul dark song and	LXMON
	B14	1447			13'8"	42'6"	43'5"	Black Stamed Sand Black Stamed Sand	al I
	W28	1432			11'3"	53'8"	751,"	Black Stemand Sand	
	w29	1437		1	126"	512"			1
		~							
	Map Attach	ed	es		No	onfirmatio		posal/Characterization USACE- coc #	
	Laboratory	Destina Duplic			Onsite Long Yes			insate Taken: Yes No	
		Duplic	ate	Tak	en: Yes	No	Ri		
	Laboratory	On-s	ate	Tak Lab	en: Yes	No hain of Co	Riustody/Re	equest for Analysis PCBs Other	in l
	Laboratory	On-s	ate	Tak Lab	en: Yes	No hain of Co	Riustody/Re	equest for Analysis	2nd

Sample Location Map Fort Devens - Project #16208

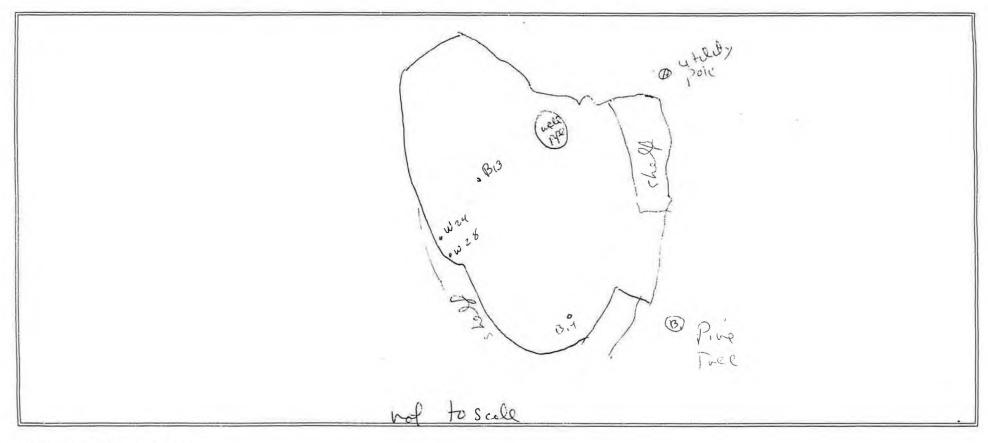
Date:

11,7,94

Site Name:

ARFE63 BE

Pg. 2 of 2



Comments/Observations:

Prepared by: MRP

Page of (Location No.: AREE63 Date: 11.994 GC Analyst: BE Site: Ft. Devens, MA TPH Analyst: MURB Method 8080 Sample ID Concentration Action Level (mg/kg) Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl Method 418.1 CO NO 1 20=

	•	Samp	le ID	515	4066	31法										7	7112
Concentration (mg/kg)	Action Level	624					WZb	W27	W28	6,29	1313	Big					
TRPH	500 ppm	NO	ND	5734	222	2664	320	4711	1333	2735	578	422					
											-			_			-
	500 ppm																
	500 ppm																

	1 0
Pa	ofal
· y	LOIDE

Date: //./6'94

Site Name: AR63BE

Weather: (ald, o vecast

Samplers:

maken

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coord Ref. Pt/	inates Ref. Pt/3	Sample Description	# of Bottles
SBARGBÉ W30	ميراح	9	la'	29'8"	78'311	Brown silty send w/ cobble	1 x 40 ml
w3(0920		121	26'3"	73'4"	Moist Brown soud of cobble	
W32	0925		12'	22'	674"	n (+ * 1.	
W33	9930		9'	26'4"	781	From silty Send w/ colle	
w 34	0935	1	91	20'10"	70/7"	Brown & gray silty send	
315	<u> </u>	1	13'	ପୃଞ୍	71/101	Moist Brown sand w/ cubble	
W35	0955	9	211	1	A	Gray clopey sand of strang	

Ref. Pt. A: Telephone (utility)	pole
Ref. Pt. B: Pine Tree	· · · · · · · · · · · · · · · · · · ·
Map Attached: Yes No	
Sample Type: Screening Confirmation	Disposal/Characterization
Laboratory Destination: Onsite Lab ASC	C - coc # USACE- coc #
Duplicate Taken: Yes No	Rinsate Taken: Yes No
On-site Laboratory Chain of Cus	stody/Request for Analysis
Requested Testing: TPH BTEX	Ohlordane PCBs Other
Relinquished by(dd/tt): //chul X. June	1000 Received by (dd/tt): Ship 1000
Relinquished by(dd/tt):	Received by (dd/tt):

Page | of | TPH Analyst: MON/MGQ Location No.: ARE 638 Date: // /6,94 GC Analyst: Site: Ft. Devens, MA Method 8080 Sample ID Concentration Action (mg/kg) Level Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl Late Entry Method 418.1 Sample ID SBAR 63BE Concentration Action B15 1037 1040 BIG B18 W30 4031 W32 433 W3Y W35 B17 1036 W37 1038 Level (mg/kg) ND ND 1939 ND 14) 2898 MA NO TRPH 500 ppm 19P ND 500 ppm

ND - Indicates TPH not detacted

500 ppm

Note - W35, W39 + W40 collected from known hotspots to vorify

Page of

Location No.: AREE63BE Date: 11.16.94 GC Analyst: MRB TPH Analyst: Site: Ft. Dewns, MA ma 13 Method 8020 SBAR63BE Sample ID Concentration Action W35 W39 640 (mg/kg) Level NO NO 10 ppm benzene. NO toluene 90 ppm ND ND ethylbenzene 80 ppm NO NV NO NV m,p-xylene NO NV NO o-xylene NO NY 500 ppm Ny tot. tylene ND WD chlorobenzene 1,2-dichlorobenz. 1,3-dichlorobenz. 1,4-dichlorobenz.

Percent Recovery

1,3-Dichlorobenzene

Note - somples analyzed by GC to determine coust

Note - somples analyzed by GC to determine coust

of high headspace readings in field.

Chromatograms resembled fool oil fingerprint.

nothing unexpected was seen.

Pg. 1 of 2

Date: 11.16.94

Site Name: BAREE GSBE

Weather: Overcast' & Cool

Relinquished by(dd/tt):_

Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coord Ref. Pt.A	inates Ref. Pt./3	Sar Desc	nple cription	# of Bottles
SDARB3BE BIG	ردی	9	(3"	35'4"	79'6"	Wet browns	P	1 x 40 m
B17	1155		(3"	43'3"		Wet brown san	nd on top of bedrock	
BIB	1200		13	49'6"	94'9"	Most brown sen	I whoch fragments	
W76	1205		12	38	96'6"	Brown sand		
637	1210			44'2"	93 31	ra h	′′1	
6138	1215	*	176	52'	99'	21 20		
W39	12,20	1	10'6"			Gray Suil - Re	Hot sport	1
W40	1223	G		N/A		Taken from	smell szaper xcoudn backet ite - Small pent , small amon	
Ref. Pt. <u>B</u>		رسو	to P tre No					
Sample Typ	e: E	Screening	19 C	onfirmatio	n Dis	posal/Characteri	zation	
Laboratory	Destina	ation: 8	Onsite L	ab As	SC - coc #		USACE- coc#	
	Duplic	ate Tak	en: Yes	No	R	nsate Taken:	Yes No	
Requested		/	<	hain of Co	ustody/Re	equest for Analy	rsis	
~ ACHIOCHOC	Lockin	g: TF	11.1					

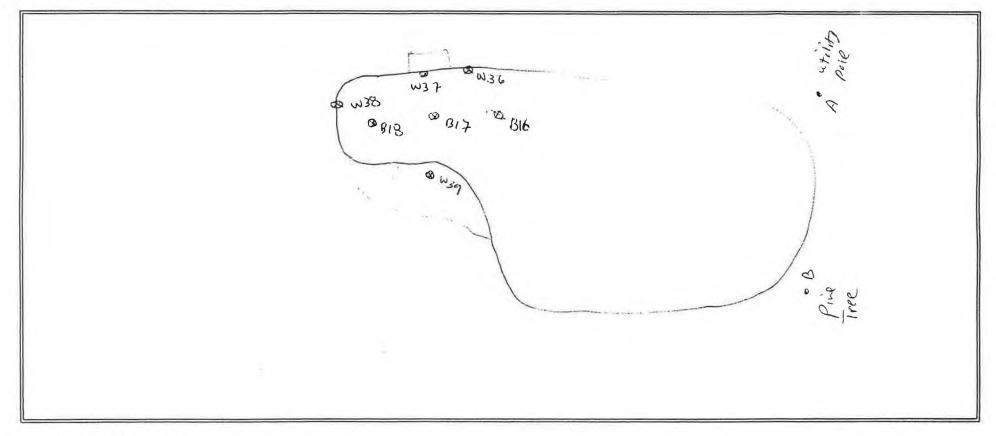
Received by (dd/tt):_____

Sample Location Map Fort Devens - Project #16208

Date: 11-16-94

Site Name: AREE 63BE

Pg. 20f2



Comments/Observations:

W39 is a grab taken from Wotspot-

Prepared by: M. Quinlan

				US	726	51								Analys		Page	/ of	1
Site: Ft. Devens	, MA	Loca	tion N	0.:	-		Date:	11.17	7.94	GC Ana	alyst: MR	31.	TPH	Analys	t: MO	01		
Method 8080		Samr	ole ID	AR	ee es	BE	c C					MG	Q		rije	D/MG	12	
Concentration (mg/kg)	Action Level	APLIG C																
Aroclor 1260	2 ppm	ND																
chlordane	1 ppm	0.7	11 1															
decachlorobip		/	AR ID	ا ان ۲۵۲	51-						5BA:26	38E		A266	ic.			
Concentration (mg/kg)	Action Leval	B7	BB	87	BIO	W25	W21	W2Z	WZ3	w24	W41			551				
TRPH	500 ppm	122	ND	480	ND	ND	ND	1,237	ND	an	3,121			60,218				
														1				
	500 ppm																	

ND - compound (s) not detected

500 ppm

Pg. 1 of 2

Date: 11.18 94

Site Name: AREE 63BE

Weather: Cloudy: Overcast Samplers: MGQ

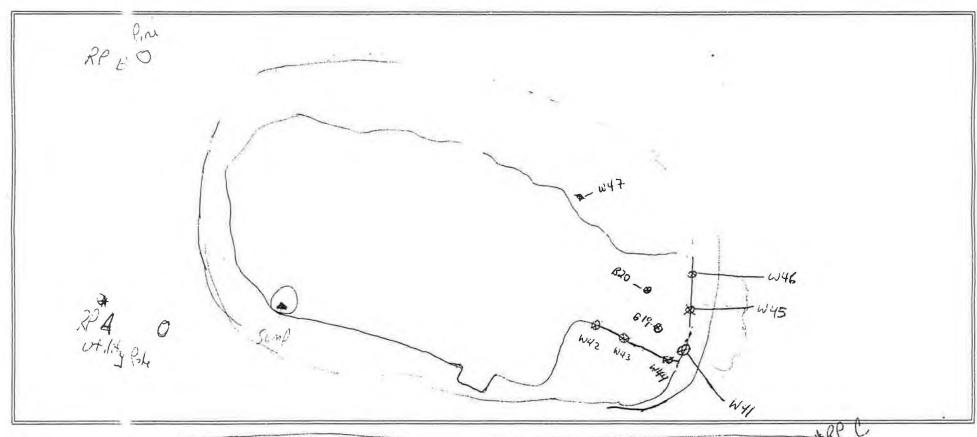
Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)		linates Ref. PtC	Sample Description	100.0	of ttles
SBARGBBE NYZ	(210	G	12'6"	56'10"	47'	Brown silty Sand	lx	You!
iJ 4 3	1215	1	12'6"	64'	40'7"	Brown "	1	
W44	1220		12	71'10"	34'6"	Brandgray silty sonds	N-	
w45	1225		12 12	73'3"	42'2'	Gray sitty sound woodor		
W46	1230		15.4	75'6"	52'3"			
1-w47	1235	-	1-10	NA	N/A			
B 19	1240		14'6"	66'6"	117	Brown sond : groval		
B20	1245	-	14.6"	65'11"	49'	Brown silty send & granel	1	,

Ref. Pt. A : _	utility pole		,
Ref. Pt. <u>C</u> : _	Grner of bldg	<u>. </u>	
Map Attached:	Yes No		
Sample Type:	Screening Confirmat	tion Disposal/Characteriz	zation
Laboratory De	stination: Onsite Lab	ASC - coc #	USACE- coc#
	uplicate Taken: Yes No	Rinsate Taken:	Yes No

Requested Testing:	H) BTEX	Chlordane	PCBs	Other	Autolou
Relinquished by(dd/tt):	Michael N. don	1300 Receiv	red by (dd/t	t): [[] Lu	1300
Relinquished by(dd/tt):		Receiv	ed by (dd/t	t):	

Date: (1-18-94

Site Name: AREE 63BE



Comments/Obs ervations:

· W41 collected by J Begley on 11/17/94 from depth of ~ 11 BGS

Prepared by: M. Quintan

* W47 was good of hot material that was not onelyzed * Established a third reference point RP**C - corner of building

Page of Location No.: L Date: (1-18.94 GC Analyst: AREE 63BE TPH Analyst: MGQ Site: Ft. Devens, MA Method 8080 Sample ID Concentration Action Level (mg/kg) Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl Aethod 418.1 Sample ID UST3651 SBAR63BE-Concentration Action W44 W45 W46 319 W42 443 B11 B12 B13 W26 W27 B20 W25 (mg/kg) Level 500 ppm 13 J ND ND ND ND ND 433 ND NA 4,596 2,537 193 TRPH ND 500 ppm 500 ppm

Pg. 1 of 2

Sample ID Number	Time		Sample Depth (ft)	Coord Ref. PtA			mple cription	# of Bottles
SBA263BE W48	1		10'	90 ju	33'4"	dry, smal	n silty clay I coloble	1x numl
1,6							; w	
Ref. Pt. A Ref. Pt. B Map Attach			No.	Pule				
Sample Ty			· ·	onfirmatio	on Dis	oosal/Character	ization	
Laboratory		4	_	-			USACE- coc #	
C.MATHELEUMAN PORTROSTORIO	Duplic	cate Tak	en: Yes	No /	Ri	nsate Taken:	Yes (No)	illms—ohjo-sed—
	On-	site Lab	oratory C	hain of C	ustody/Re	equest for Anal	;'sis	
Requested	Testin	g: TF	РН В	TEX	Chlordar 21-94	ne PCBs	Other_	11 11
Relinquish	ed by(d	ld/tt):	M/9			Received by (dd	/tt): I/ Sen	ih 1
Relinquish	ed by(g	(d/tt):	/			Received by (dd	/tt):	

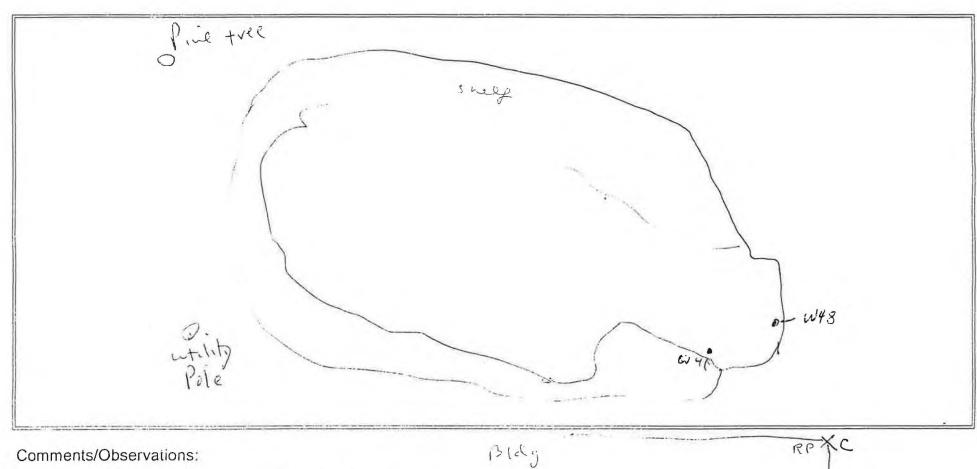
Sample Location Map Fort Devens - Project #16208

Date: //. 21.94

Site Name:

ARTEG3BE

Pg. <u>4</u> of _2



Comments/Observations:

depth 2 10'

Prepared by: M. (Juin lan

Site: Ft. Devens, MA

Location No.: ARFE63BE Date: 11-21-14 GC Analyst:

Method 8080

Sample ID

Concentration Action (mg/kg) Level
Aroclor 1260 2 ppm
chlordane 1 ppm

Percent Recovery 2,4,5,6-1cmx

decachlorobiphenyl

		Sample	e ID	20/110	.63BE								
Concentration (mg/kg)	Action Level	640						0					
TRPH	500 ppm	धीर		•									
	500 ppm												
					-				 		-		•
	500 ppm												

Pg. Lof_3

Date: 11-22-94

Site Name: AREE63 BE

Weather: Sunny & cool

Samplers: TB + NGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coord Ref. Pta	inates Ref. Pt.C		Sample Description	# of Bottles
5BAR63BE W49	1345	G	11'6"	912	30'9"	Bran	(lay u/some rocks	alcus Viel
WSO	1347		11'6"	GI "nd	416"	le.	11	
W51	1350		116"	£1"	53'	tan	brain sand	
w52	1352		15	37'	33'3"	Brown	(lyl. hesoil 40	don
w53	1355		146	3)'3"	388	Crey bi	an (Impy (luy	1. hV
W54	1357		15'	33 21	36'9"		(Ingursels	
WSS	1400		13'6"	3-1'2"	39 411			odor
W56	1402	1	12'	33'	37'3"	Grey (ly w/odo-	1

Ref. Pt. A: Utility Pola Ref. Pt. B: Pine Tree Corner of Bldg. Map Attached: Yes No	14. 40°
	on -Disposal/Characterization SC - coc # USACE- coc # Rinsate Taken: Yes No
On-site Laboratory Chain of C	1
Requested Testing: TPH BTEX Relinquished by(dd/tt): Mehr Dul	Chlordane PCBs Other
Relinquished by(dd/tt):	Received by (dd/tt):

Pg. 2 of 3

Date: 11-22-54

Site Name: AREE 63 BE

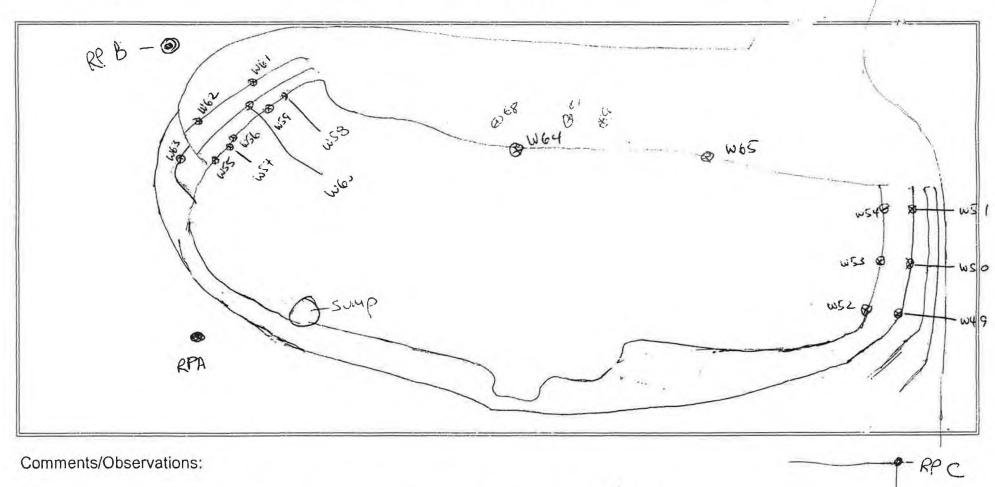
Weather: Sany : Cool

Samplers: JB & MQQ

Sample		Comp/	Sample	Coord	inates	Sample	# of
ID Number	Time	Grab	Depth (ft)	Ref. Pt.A	Ref. PtB	Description	Bottles
SBARGS BE US 7	1405	G	15611	361411	38'	Own Grey Sud Stocky	1 x 40ml
WS8	1457		121	4517"	34'5"	Grey Elay wloder	
W54	1429		15"	413'	35'	Ton Clay 1/025	
(· v v)	1412		11'6"	V411	315"	tan Grey sond w/odo	
wel	1415		9'	45 4"	24'3"	Grey (lang Moder	
W6Z	1417		9'61	38'3"	2771	" (e	
W63	1420	•	106"	262"	1/6'3"	Brown Gry Clay	
w64	1423		12'	65 8-	66'	Gry (my w/struct	
W 65 Ref. Pt. <u>A</u> : Ref. Pt. <u>B</u> :	1	+.l.t.	12' Pols Tree		2,17		
Map Attach	ed. Y	es	No	0	nan unse ne		un and a comp
Sample Typ	DE:	Screenir	ng C	onfirmatio	on Dis	posal/Characterization	
Laboratory	Destin	ation:	Onsite L	ab AS	SC - coc #	USACE- coc #	
	Duplic	ate Tak	en: Yes	No	Ri	nsate Taken: Yes No	
	On-s	site Lab	oratory C	hain of C	ustody/Re	equest for Analysis	OC. TOWNERS IN THE TAX PORT
Requested	Testin	g: TP	H) B	TEX	Chlordar	ne PCBs Other	
Relinquishe	ed by(d	d/tt):			F	Received by (dd/tt):	
Relinquishe	ed by(d	d/tt):			F	Received by (dd/tt):	

Date: 11-22.94

Site Name: AREE 63BE



Total Depth of Execution ~ 16 BGS

Prepared by: M. Quinlan

Site: Ft. Devens, MA

Location No.: AREE63BE Date: 11.22.97 GC Analyst:

Page of Page of Page

Method 8080

		Samp	le ID			_						
Concentration (mg/kg)	Action Level											
Aroclor 1260	2 ppm				-					12.80	(· i · -)	
chlordane	1 ppm											

Percent Recovery

										A Commence of the Commence of
2,4,5,6-tcmx										
decachlorobiphenyl										

Concentration Action (mg/kg) Level	7K	FC.	SC,	OC.		DUP	TRP	WY9	धऽठ	હડા	wsz	623	62A	ويورد	656	W57	w58	459	660
TRPH 500 pp	n NP	ND	No	36J	MP	NA	NA	ND	ND	NO	705		971	305		6318	634	202	2012
AR63BE	W61	462	<i>ω</i> 63	W64	W65														
500 pp	n 6840	3680	222	MD	1903														
	-	-		anerito con	*****				JI ************************************		-			-					

1

Date: 11-23 -94

Sample

SBAR 63BE

ID Number Time

W 66 M30

Site Name SPARFE 63 BE

66'2" (10' 10" Gray cla

077"

Sample

Description

Pg. Lof 2

of

Bottles

1643-1

Wastham COUN, CINON

Comp/ Sample

121

4

Samplers: BD

65'1"

Grab Depth (ft) Ref. Pt. A Ref. Pt. c

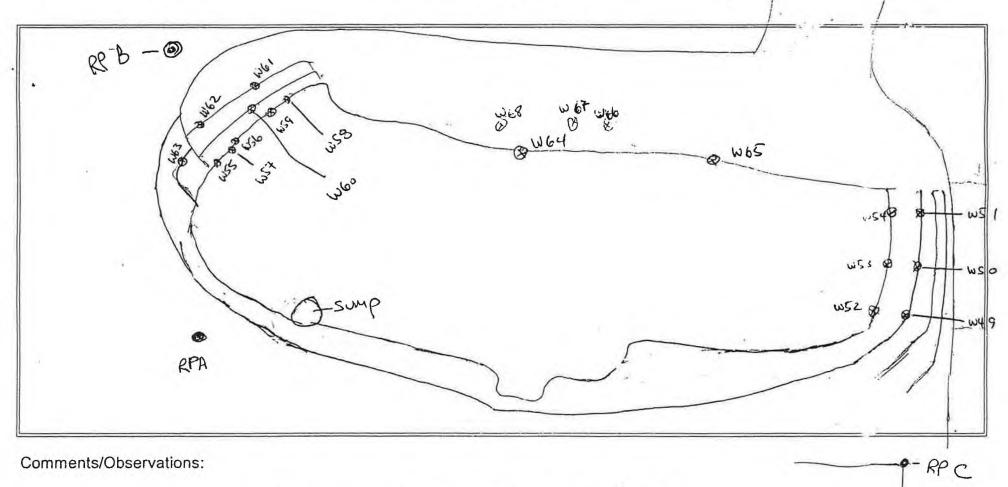
Coordinates

m [8]	0940	4	121	£2'3'	1018"	f.V.	*		4	
								- **		
										1
Ref. Pt. A	. 0 12	,		^						_
	_									
Ref. PtC_	•									
		C C	lo	_						
Map Attach	ed. Ye	-	-	MANAGEMENT CONTRACTOR			ORANI MOUNTAIN		no) par sun e maria de pala	near .
Map Attach	ed. Ye	-	-	Confirmation	on Dispos	sal/Character	rization	- turns, mix	no's pass and it is seen assume and a	-
Ref. Pt. C Map Attach Sample Ty Laboratory	pe: So	creening				sal/Character		E- coc #		-
Map Attach	pe: So	creening	Onsite L		SC - coc#_		USAC	E- coc #	no) less activité des amplication	-
Map Attach	pe So	creening	Onsite L	ab A	SC - coc#_		USAC	E- coc #		-
Map Attach	per So Destinate	creening tion	Onsite L	ab A	SC - coc # _ Rins		USAC Yes	E- coc #		-
Map Attach	Destinate Duplica	tion tie Take	Onsite Len: Yes	ab As	SC - coc # _ Rins ustody/Requ	ate Taken: lest for Anal	Yes C	NO)	Statute (1994)	wa.
Map Attach Sample Ty Laboratory	Destinate Duplicate On-site	tion: te Take	Onsite Lan: Yes	ab As	SC - coc # _ Rins ustody/Requ	ate Taken: lest for Anal	Yes C	NO)	Statute (1994)	w

Pg. 3 of 3

Date: 11-23-94

Site Name: AREE 63BE



Total Depth of Excovetion ~ 16' BGS

Prepared by: M. Quinlan

TPH Analyst: MRB Location No.: AREE 63BEDate: 1.2394 GC Analyst: Site: Ft. Devens, MA Method 8080 Sample ID Concentration Action Level (mg/kg) Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl Method 418.1 SBAR63BE Sample ID Concentration Action 666 662 468 Level (mg/kg) 500 ppm 903 2182 2200 TRPH 500 ppm

500 ppm

Pg. 1 of 2

Date: 11-30.94

Site Name: AREE 63BE

Weather: Surry + warn

Samplers: MGQ

Sample ID Number	Time	Comp/ Grab		Coord Ref. Pt.	linates Ref. Pt	Sample Description	# of Bottles
BARGOBE B21	و موا	G	9'	SI'	76'	Gray sandy clay	1x40 x1
BZZ	2661		9'	51'	76'	i i i	
W69	1005		121	32'	104	Gray silty sand	
wto	1007		10'			Gray sandy Clay	
W71	1010		8'			o a i	
B33	1012		12.5'	1	1	A 11 11	
B24	1022		12.5	48'	76'	u ii ii	
B25	1023	1	12.5	48	76	n - 11 - 11	

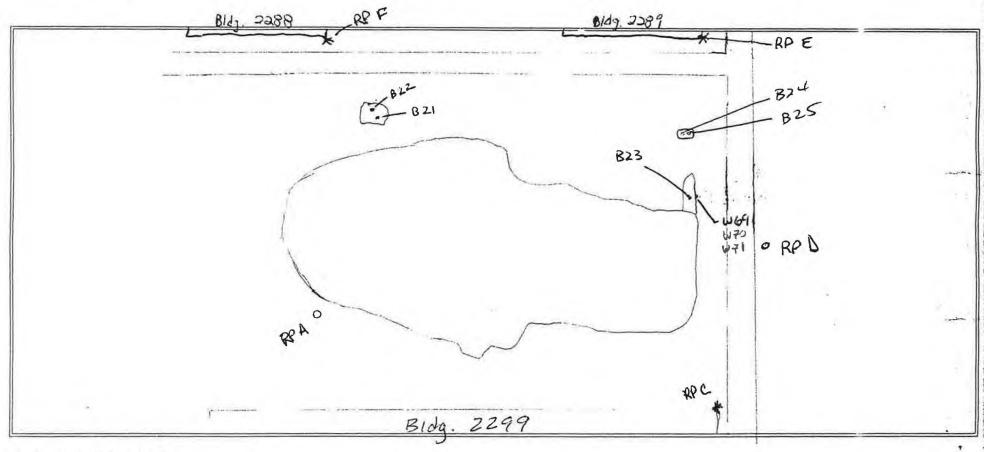
B25	1023	4	12.5'	48	76	11 11	123		
Ref. Pt. D	: <u>U</u>	tility	Pole.	Seeng	P		_		
Ref. Pt. E	: <u></u>	rner of	buil.	ding	2289		_		
Map Attach					7780				
Sample Ty	ne: (S	creening		onfirmati	ion Dis	posal/Chara	cterization	1	
			\leq						#
Lasoratory						nsate Taker		No	"
						jklr∞ v			
	On-si	te Labor	atory C	hain of C	Custody/Re	equest for A	nalysis		
Requested	Testing	: TPH	B	TEX	Chlorda	ne PCE	Bs O	ther	
Relinquishe	ed bv(dc	i/tt): <u> </u>	Value	nl 1/30	M 1040	Received by	(dd/tt):	C IC BI	11/30/9
	.,(1							

Sample Location Map Fort Devens - Project #16208

Date: 11.30 .94

Site Name: AREE 63BE

Pg. 2 of 2



Comments/Observations:

RP= Reference Points

Notes: B24 + B25 were collected if backhoe bucket. B21: B22 taken from underneith Chimney footing o = utility pole : = Soil scaple location

Prepared by: M. (Vin lan

Site: Ft. Devens, MA Method 8080

Location No.: AREF63BE Date: 11.30.94 GC Analyst:

	 	MRB
1		

Concentration Action (mg/kg) Level						- 7		1
Aroclor 1260 2 ppm				V-J				
chlordane 1 ppm								
chlordane 1 ppm Percent Recovery								
2,4,5,6-tcmx								
decachlorobiphenyl								

Concentration (mg/kg)	Action Level	B21	B22	Bz3	Ber	Bes	Wba	ω70	W71	674	1075	W76	W72 W73	W77	w78	W79	B26	B27	 4
TRPH	500 ppm	229	74	837	366	2334	35 5	725	129	1303	108	3187	3415	205	75	10 0	135	1,20	, mark
	500 ppm																		
																-			 •
	500 ppm							-											 -

I = indicates astimeted concentration below practical quantitation limit Note: Solut scaples also analyzed by GC to verify TPH results by IR. · w73 inadvertantly not analyzed - will analyzed when power is restored

Pg.___of__3

Date: 11-30-94

Site Name: AREE 63BE

Weather: Sany f M. Id

Samplers: MGQ

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)		dinates Ref. Pt.	Sample Description	# of Bottles
SBARG3BE B26	الأزه	G	10			Brown send in cobble	lx ton! Vials
B27	1412		10'		Map	Gray clasey sond - Strong	Î
W72	1415		8	Sec		Black/gray (muist) sand	
W73	1418		8			Gray dayay send strong	
w74	1435		10'			Gray clayey sand	
W75	1437		10	(E) 9+'	€), 73.5	Moist (wet) clary send	
w76	1442		10			Gray clayer sond	
W77	1423	1	11.5	13.6	66	Brown sond al cubble	1

W77 1423 11.5 18.6 60	Brown send of cubble
Ref. Pt. A: Utility Pole - see map corner of Bldg 2289	
Ref Pt F . 11 " 2288	
Map Attached: Yes No	Tence - Sec map
Sample Type: Screening Confirmation	Disposal/Characterization
Laboratory Destination: Onsite Lab ASC - c	oc#USACE- coc #
Duplicate Taken: Yes No	Rinsate Taken: Yes No
On-site Laboratory Chain of Custod	
Requested Testing: TPH BTEX Chlo	ordane PCBs Other
Relinquished by(dd/tt): // duly 1540	Received by (dd/tt): 8 43/6 11/30/74
Relinquished by(dd/tt):	Received by (dd/tt):

Pg. 2of3

of

Bottles

1 x 40 ~ 1

Date: 11-30.94

Sample

SBAR63BE

Site Name: AREE 63BE

Sample

Description

Weather: Sony & M. Id

Comp/ Sample

ID Number Time Grab Depth (ft) Ref. Pt. Ref. Pt.

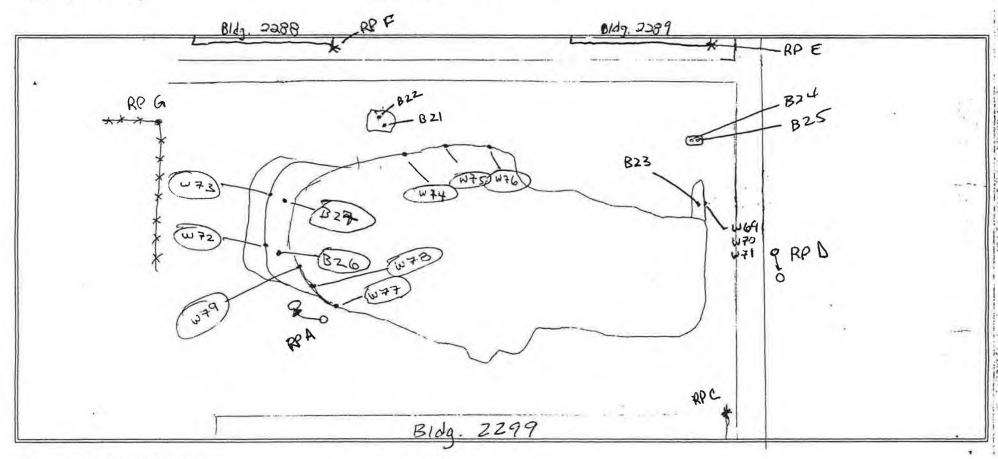
Samplers: MGQ

Coordinates

	1458	4	11.5	6	Mal	(96)	ble	(wet)	Glass	
P74	1430	1	11.5	500		Brun	sond	ul cobble	ίη	
		\$					· ·			
	*							29		
					1					
		. "								
							-			
Map Attac	hed: Y	es	No ng C	Confirmat	tion Di	sposal/Charac				
Map Attac	hed: Y	Screening ation:	ng C	confirmation A	tion Di		us			
Map Attac	hed: Y per S pestina Duplic	Screenination:	No Onsite L	confirmation A	tion Di ASC - coc	sposal/Charac	US Yes	ACE- coc #		
Map Attac	pe S y Destina Duplic	Screenination: ate Tak	Onsite Loren: Yes	confirmation A	tion Di ASC - coc F Custody/F Chlorda	sposal/Charac # Rinsate Taken: Request for Ar	US Yes alysis	ACE- coc #		0
Map Attac	pe S y Destina Duplic On-s d Testing	es Screenin ation: ate Tak	Onsite Loren: Yes	confirmation of the confir	tion Di ASC - coc F Custody/F	sposal/Charac # Rinsate Taken: Request for Ar	US Yes alysis	ACE- coc #		30/

Date: 11-30 .94

Site Name: AREE 63BE



Comments/Observations:

RP= Reference Points

Notes: B24 + B25 were collected if backhoe bucket. B21: B22 taken from underneith Chimney footing o = utility pole = 50il sample location

Prepared by: M. Quin lan

Pg. <u>/ of </u>Z

)ate: 1-5-95

Site Name: SBAR 63BF

Weather: COLO , CLEAR Samplers: BO/MICIS

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coord Ref. Pt.	inates Ref. PtA	Sample Description	# of Bottles
SBARG3BEWAG	L056	9	5/4"	38 8"	3711	1 t brown sellow sad lots of rocks of cobbie	[×40-1
ua7	105%		57"	34%	43'9"	reflorat sond with loft of rock of cobbie	
ω] §	1103		56	30'6"	50'10"	late of perprises	
L)99	1106		560	2710	598"	few small pelsures	
Wioe	1055		7'9	47'6"	29'10"	olof of very small periodes	
٧٠,٥٠	1056		9'3"	41'6"	36171	Wetgrerish clay -	
102	1057		86	37/3"	45121	y PH smell	
wioz	(0) 8	0	61	160	5/2	TPH smell	1

Ref. Pt. 6: Fer part seen bldg To	2791
Ref. PLA: Telephone pale	
Map Attached: Yes No	
Sample Type: Screening Confirmation	Disposal/Characterization
Laboratory Destination: Onsite Lab ASC - o	coc# USACE- coc#
Duplicate Taken: Yes No	Rinsate Taken: Yes No
On-site Laboratory Chain of Custoo	dy/Request for Analysis
나는 일도 그리는 사람이 없다면 하다는 이상이 있는데 하게 하면 하게 하셨다면 하는데	ordane PCBs Other
Relinquished by(dd/tt): Will 11 1-5-95	Received by (dd/tt): > A Bles 11
Relinquished by(dd/tt):	Received by (dd/tt):
The second of the	

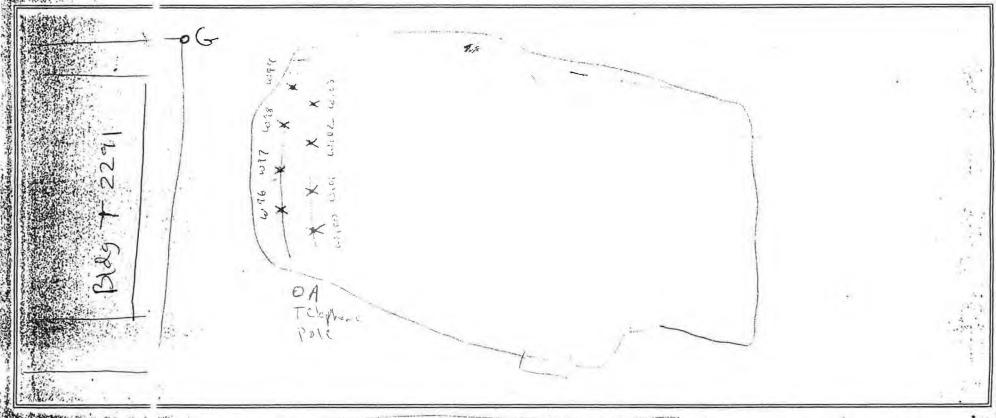
Sample Location Map Fort Devens - Project #16208

Date: 1.5 95

Site Name:

AREE 63BE

Pg.ZofZ



Comments/Observations:

13(2g 2299

not to be ele

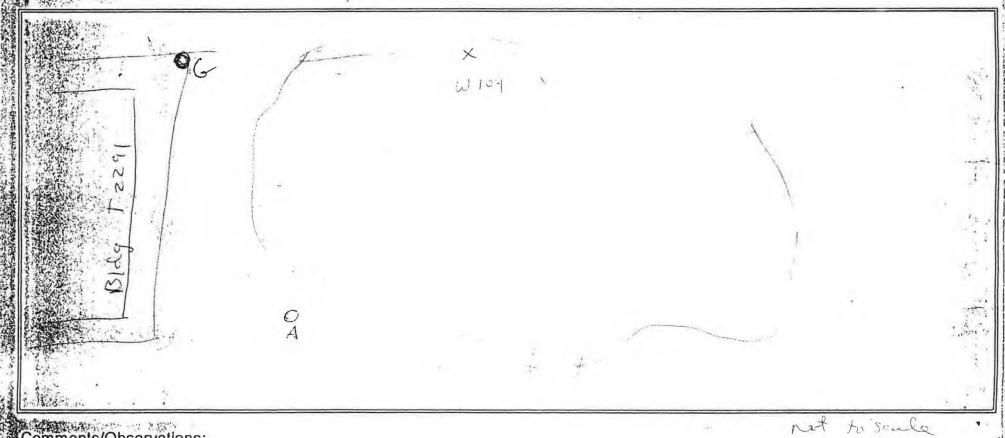
Prepared by: ______ MRB

TPH Analyst: MRL Location No.: AREE 63BE Date: 1.5.95 GC Analyst: Site: Ft. Devens, MA Method 8080 Sample ID Concentration Action Level (mg/kg) Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-1cmx decachlorobiphenyl Method 418.1 Sample ID SBAR63BE Concentration Action 677 winz wing way 676 W77 60,00 4:11-1 Level (mg/kg) NI TRPH 500 ppm 11) (YA N ND 1914 1209 1121 500 ppm 500 ppm

Sample ID Number	Time	Comp/ Grab	Sample Deoth (ft)	Coord Ref. PtA	inates Ref. Pt&	Sample Description	# of Bottles
5 B/1 R638= Wio4	1953	6	ルル	73′3″	82.0"	Description greyish somy alg 8trong IPH sme	Se 1x 10n
						-	
 Ref. Pt. <u>∦</u>	: <u>T</u>	(ef	home	pole	المحد	bldg zzqq	
Ref. Pt. <u>G</u> Map Attach	: Fe	es)	Post No	ne an	6129	T2211	
Ref. Pt. <u>G</u> Map Attach Sample Ty	ed: Y	es) Screeni	Post No ng C Onsite L	onfirmation	on Dispose Coc #	blog 2299 T2211 posal/Characterization USAC	
Ref. Pt. <u>G</u> Map Attach Sample Ty Laboratory	Destination	es) Screeni ation: (ate Tal	No No Onsite L cen: Yes	onfirmation AS	on Dispose Riustody/Re	posal/Characterization USAC	No
Ref. Pt. <u>G</u> Map Attach Sample Ty	pe: Some Duplication On-s	es Screeni ation: (ate Tal	No Onsite L cen: Yes	onfirmation AS	on Dispose Richards R	posal/Characterization USAC Insate Taken: Yes equest for Analysis T 2 2 1 1 PCBs Other	No /

Sample Location Map Fort Devens - Project #16208

Site Name: ARFE63BE



comments/Observations:

Rplg 2299

Prepared by: Maga/BD

Location No.: AREE GRE Date: 1.57 75 GC Analyst: Site: Ft. Devens, MA TPH Analyst: MI Method 8080 Sample ID Concentration Action (mg/kg) Level : Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-1cmx decachlorobiphenyl Method 418.1 Sample ID 5BAR63BE Concentration Action Was Way 677 6078 1376 W79 10,00 1,102 Lang Level (mg/kg) (YA 11.17 TRPH 500 ppm (1) NO (11) 11:1 1714 17:09 500 ppm 500 ppm

1000

late:	16.			Site Nam	e: Av	2EE63	BE	Pg. <u>1</u> _of_
Voather:	Par Dy C	tly ,	cloudy	Samplers	s:B0/m	RB		
Sample D Numbe		Comp/	Sample Depth (ft)	Coord Ref. Pt/			Sample escription	# of Bottles
SBAR 63B		G	9'3"		44'6"		horoun sono, hor small persons	1 X LLOM
	6 1222		9'3"	71'3"	550"	black s	1173	1
Wio	1225		9'0"	73'5"	644"	grepish of	el, small pebble	
LU10,	3 1229		9'3"	76 '0"	73'3"	swell,	clex, strong 7PH	
Wio	1233		8'9"	80'0"	85'0"		2 conferso anon	
WIII	1224		5'9"	771"	5611"	Light b	send, moist	
6111	1220		5/8"	78'11"	63'4"	T.	((
WIIZ	-1222	1	5 18 11	800"	736"	(1	<i>i</i> /	V
Ref. Pt. A	<u>.: _ +</u>	elep	how f	pole			4	
Ref. Pt. <u>6</u>	_:	eve	e 602.	+				:
Map Attac	hed:	ves)	No			1+1		
Sample T	/na: /	Screeni	000	onfirmatio	on Die	posal/Charac	terization	
Laborator	(-		Onsite L				USACE- coc#	
Laborator		cate Tal	1			nsate Taken:		
	Варік	Jale Tar	ten. Te	110	- 1	nsate raken.	163 (10	
	On-	site Lat	oratory C	hain of C	ustody/Re	equest for An	alysis	
Requeste	d Testin	g: (T	рн в	TEX	Chlorda	ne PCB	s Other	1.6
Relinquisl	ned by(d	Id/tt):	SABI	en 1	1322	Received by (dd/tt): 3/13(e	13

lata:		,	9	5
lata.	1 .	1-	1	1

Site Name: AREE 63BE

Pg. 20f 3

of

Bottles 1 X YON

Weather:

Sample

Samplers:

Coordinates

Comp/ Sample

ID Number Time Grab Depth (ft) Ref. Pt.A Ref. Pt.G

BO/MRB

Sample

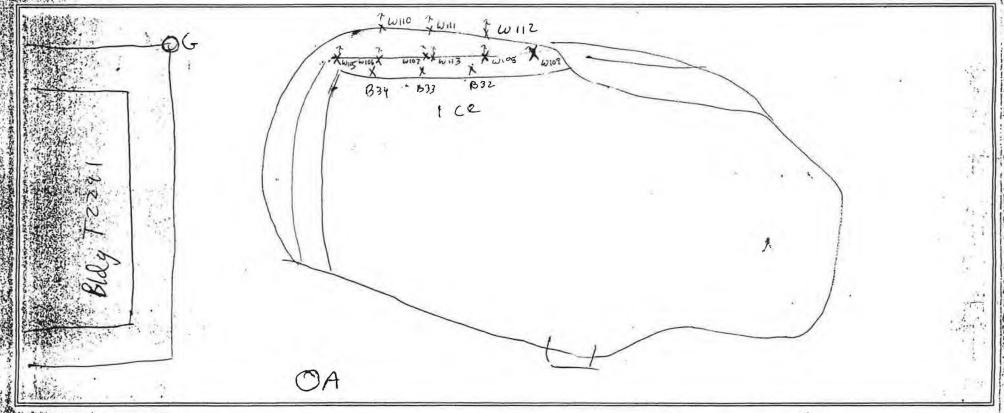
Description

W113	15 12		106"	73.16	10/	STRONG TPH SU		AMERICA (1777)	
8 32	1230		11'4"	65 10	680"	moist grey	clay, TP	4	
633	1		11'4"	63'9"	57/0"	slight TPH s	sandy clay	r.	
B34	1234	J	11'4"	190'6"	496"	slight TPH sweet brown Slight TP	H oda	Seo	
Ref. Pt. <u></u>	:	Fer	Lay	Post				- G	
Ref. Pt. <u>6</u>	red: Y	Fev es)	No No	Post		posal/Character	ization		
Ref. Pt. <u>6</u> Map Attach Sample Ty	ned: Y	es) Screening	No No	Confirmation	on Dis	posal/Character		oc #	
Ref. Pt. 16 Map Attach Sample Ty Laboratory	ned: Y	es Screening ation:	No Onsite I	Confirmation A	on Dis SC - coc #	posal/Character	USACE- co	oc #	
Ref. Pt. 6 Map Attach	pe: Y Destina	es Screening ation:	No Onsite I	Confirmation A	on Dis SC - coc #	!	USACE- co	oc#	
Ref. Pt. <u>6</u> Map Attach Sample Ty	pe: S Destina Duplic On-s	es Screening attention:	No Onsite I	Confirmation Confirmation Chain of Confirmation Chain of Confirmation	on Dis SC - coc # R custody/Re	insate Taken: equest for Anal	USACE- co	oc #	
Ref. Pt. 6 Map Attach Sample Ty _aboratory	pe: Y Destina Duplic On-s	es Screening ate Takes the Lab	No Onsite I	Confirmation A Ses No Chain of Constant A Co	on Dis SC - coc # R Custody/Re	insate Taken: equest for Anal	Yes No ysis Other	00#	- (, 6)

Date: 1.6.95

Site Name: ARFE 63BE

Pg. 3 of 3



Comments/Observations:

- Not to scalo

Bldg 2299

Location No.: AREE 63BE Date: 1.6.95 GC Analyst: Site: Ft. Devens, MA Method 8080 Sample ID Concentration Action (mg/kg) Level Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl Method 418.1 SBAR63BE Sample ID Concentration Action 6112 4113 B32 W105 W106 B33 4111 B34 W107 W108 6109 6110 Level (mg/kg) 1436 5458 1589 123 365 M TRPH 500 ppm MD 671 500 ppm 500 ppm

Pg. 1 of 2

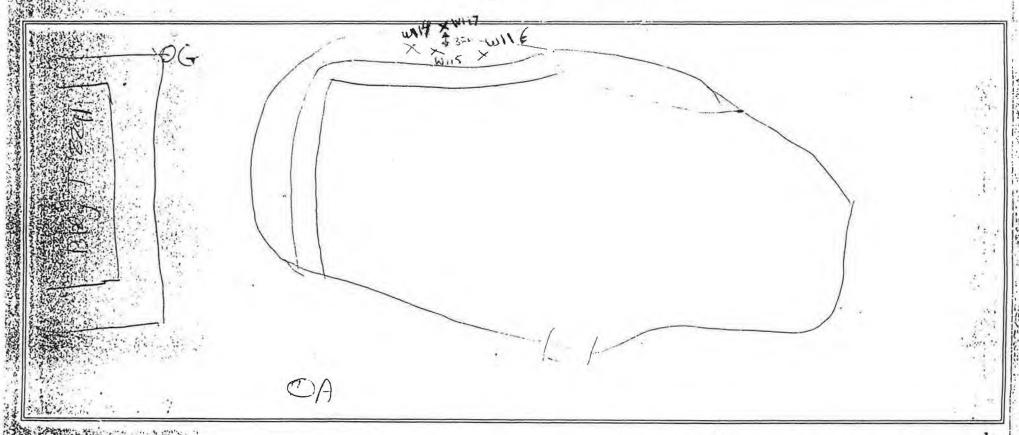
)ate: 1-9-95

Site Name: ALEE6 3 BE

Weather: COOL, PARTLY CLOUDY Samplers: BD

Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)F	Coordi Ref. Pt.		Sample Description	1	# of Bottles
B463B€ WII)	1.345		11'			Grey clay		IXGONIWA
	t						5.4	
					1.			
Man Attach	ed: Y	es)	No					
	oe: (Screenin	ig Co	onfirmatio	n Dis	oosal/Characterization		
Sample Typ	Destin	ation:	Onsite La	AS	SC - coc#	US	ACE- coc #_	
Sample Typ	Destina	ation: (Onsite La	AS No	SC - coc#	US	ACE- coc #_	
Sample Typ Laboratory	Destina Duplic	ation: Cate Tak	Onsite La	No AS	Ri Ri ustody/Re	US nsate Taken: Yes equest for Analysis	ACE- coc #_	- T
Sample Typ	Destination Duplic	ation: cate Tak	Onsite La	No AS	Ri Ri ustody/Re Chlordar	US nsate Taken: Yes equest for Analysis	ACE- coc #_	1-9-95_/

Site Name: ARETEGS IST



Comments/Observations:

Bldg 2299

not to scale

Prepared by: _____6

TPH Analyst: MRV3/13P Location No.: A PEE63BEDate: 1.9.95 GC Analyst: Site: Ft. Devens, MA Method 8080 Sample ID Concentration Action (mg/kg) Level Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl Method 418.1 Sample ID SBA & 63 BF. Concentration Action Gui 6115 WILL WILT (mg/kg) Level 2728 2239 1607 TRPH 500 ppm 2000

500 ppm

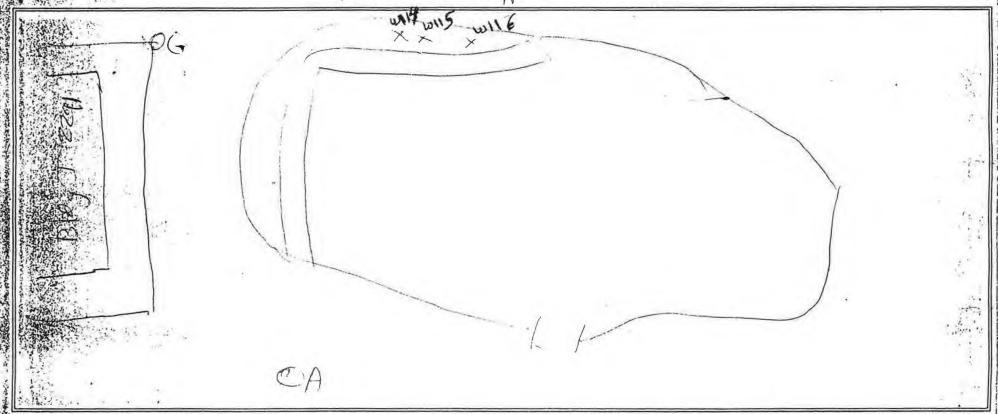
500 ppm

SBAR63 0940 9 11'0" 79' 65' Guer 32 Detrol oder 31' 51' 15 0945 9 11'0" 79' 65' Guer 37 Detrol oder 31'	Sample ID Number	Time	Grab	Sample Depth (ft)	Coord Ref. Pt.	Ref. Pt	Sample Description	# of Bottle
UNIG 1948 9 110" 82' 75' 1	5 B AR 63 BE WILY	0940	9	110	791	65-1	puped pend oder	1 X 40.
	0/15	0945	9	133	80'	71'	I v	× 1
	4116	6948	9	12 'O"	82 (75-1	II (-x	12
Ref. Pt. A: Telaphene pole								
Ref. Pt. A: Telaphene pole								
Ref. Pt. A: Telaphene pole								
Ref. Pt. A: Telophene pole								
Ref. Pt. A. Telophene pole								
1,011,0	Ref. Pt. A	: _7	elep	here,	sole			
Ref. Pt. G: Fence Post								×1
Map Attached: Yes No			_					
		(4			

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH	BTEX	Chlordane	PCBs	Other_	11	-, 6,80
Relinquished by(dd/tt):		1-9-95 Recei	ived by (dd/t	1):	alvole.	1005
Relinquished by(dd/tt):		Recei	ived by (dd/t	t):		_

Site Name: AREE 63 BE W107 - 5958 ppm W112 5973



omments/Observations:

Blog 2299

not to scale

Prepared by:

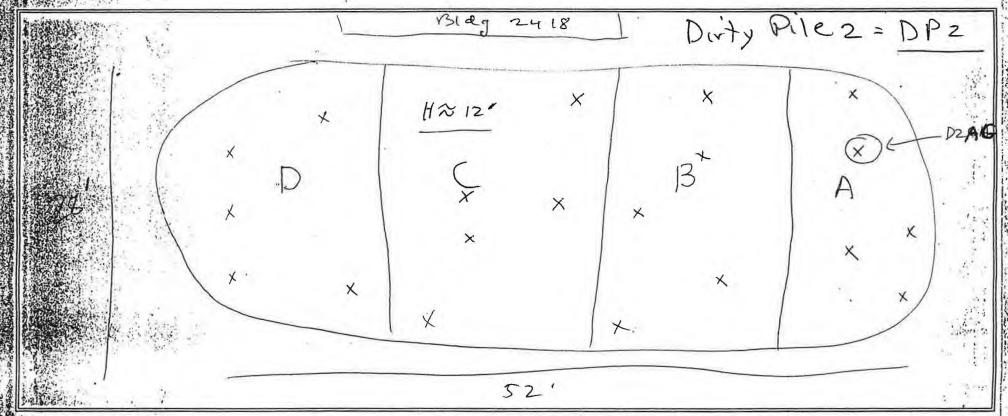
											1					
Site: Ft. Devens Method 8080	:, MA		ition N	lo.: 🍂	REE	63B1≅C	Date: / 、	゚゚゙゚゚゚゚゚゚゙゚゚ゔ゚゚゚゚゚ゔ゚゚゚゚゚゚ゔ゚゚゚゚゚゚ゔ゚゚゚゚゚ゔ゚゚゚゚゚゚	· GC A	nalyst:		ТРН	Analys	P H	age of	(
Concentration (mg/kg)	Action Level	Carr	10 10					T								-71
Aroclor 1260	2 ppm	-				-		-	-			-	-			
chlordane	1 ppm								1			-				
Method 418.1		Sami	ole ID	SBF) R 63	er: -										
Concentration (mg/kg)	Action Level	William	1	4116	1											74 -212
TRPH	500 ppm	Scoo	2728	2237	1607											بشي
	500 ppm															
	500 ppm															

Veather: P	1190		و برگرید	Samplers:	D.	REE63BE Ay Pile 2	
veauler.	. m			Jampioro		MRB	
Sample	-	·Comp/	Sample	Coordi		Sample Moist Description	# of
ID Number			Depth (ft)	Ret. Pt. 1	Ret. Pt.	Most Description * Yellows Lszas gra * Yellows Lszas gra ** 17 1+645 religious 118	Bottles
EX63BEOP2A	1401	0	18-24"			Je 1 3/ 1 Hoff shell of white	IXIV X
						gres circy a xollow	+
EX63BEDPZB	10.00						
EX63BEDP2C	1438					wet gies clay, loss of old	
EX63BEDP2D	7 - 2 - 34					sud, lottof colone Tellsus	Op J
	11		1.251				2x4on1
EX63BEDZAG	L-	G	13561			Sight to the such what	NON
				1			
			'	+			
_		18		1			
Ref. Pt						HII CON	-posites a
						All con	· 5 PC
Ref. Pt	:				-		U
Map Attach	ed.	(es)	No				
wap / waon	00.	9					
E18007045		v	4 × 6	- T	-		
Sample Typ	oe:	Screeni	ng Co	onfirmatio	n Dis	sposal/Characterization	
	Destin	ation:	Onsite La	ab AS	C - coc	# 107757 USACE-coc#	
Laboratory							
Laboratory			ren. Vec	(No)	R	Rinsate Taken: Yes (No)	
Laboratory	Duplic	cate la	103		33	onsate rancii. Tes	CVA MORSON
Laboratory	Duplio	cate I al	ten. 163	\sim		+011	CRA metale
Laboratory				_		TPH,	Full TCL
Laboratory				_	ıstody/R	equest for Analysis veck total	Ful TCL Cuz PA VOA, pers/
Laboratory	On-	site Lat	oratory Ch	_	ustody/R Chlorda	equest for Analysis PCBs Other Other	FULL TCL LUZY PA VOA, PERI
Requested	On-	site Lat	oratory Ch	nain of Cu	ustody/R	equest for Analysis very A	FOR TCL PA VOA, PCA/ PC CDC
	On-	site Lat	oratory Ch	nain of Cu	ustody/R	equest for Analysis PCBs Other Other	FULL TCL LUZY PA VOA, PERI
Requested Relinquishe	On- Testin	site Lat g: Ti	oratory Ch	nain of Cu	Ustody/R Chlorda 12, 9,5	equest for Analysis very A	FOR TCL PA VOA, PCA/ PC CDC
Requested	On- Testin	site Lat g: Ti	oratory Ch	nain of Cu	Ustody/R Chlorda 12, 9,5	equest for Analysis PCBs Other Received by (dd/tt):	FOR TCL PA VOA, PCA/ PC CDC
Requested Relinquishe	On- Testin	site Lat g: Ti	oratory Ch	nain of Cu	Ustody/R Chlorda 12, 9,5	equest for Analysis PCBs Other Received by (dd/tt):	FOR TCL PA VOA, PCA/ PC CDC

Date: 12119-94

Site Name: AREE63BE

Pg.Zof2



Comments/Observations:

EX 63 BEDPZA, B, C, D 22 EX 63 BEDZAG

Not to scale

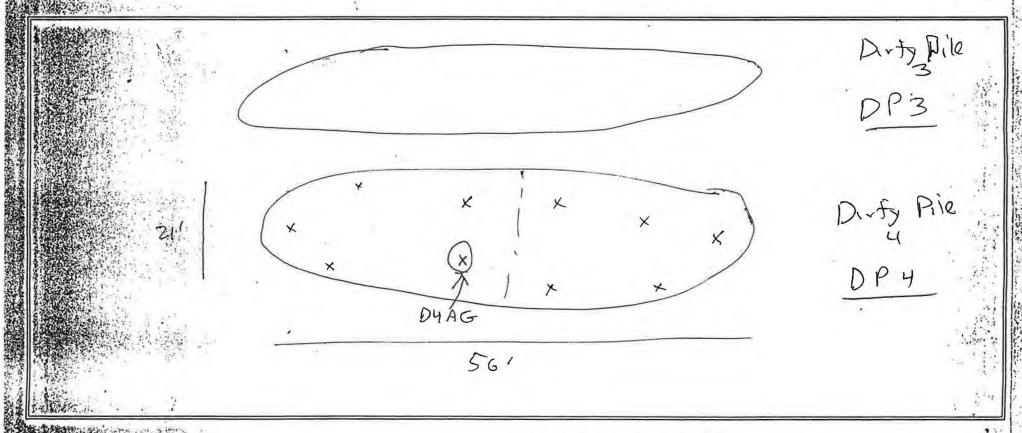
Prepared by: _____MRB

ID Number	Time		Sample Depth (ft)	Coor	dinates	FE 63 BF Fy Pile 4 And Sample Description	# of Bottles
EX63 GEDPYA	1.518	C	18"-24"			Grey clay san	Sy IXIL
EX63BE0P4B	1507	C	t) a			mostly brown sze some grex clay	0,
EX 63BED4AG	1511	G	n it			Gred Clad.	2×40m1
	9						•
						,-	
				1			
		,					
Ref. Pt: Map Attach	ed: (Y	Screeni		onfirmat	-	sposal/Characterization	
	Destin	ation:	Onsite L	ab A	1	# <u>107758</u> USACE- linsate Taken: Yes No	coc #

Date: 12119194

Site Name: AREE 63BE

Pg. 2 of 2



Comments/Observations:

Wat to Scale

Prepared by: MRP

Sample Number	Time	Comp/ Grab	Sample Depth (ft)	Coore Ref. Pt.	dinates Ref. Pt.	Sample Description	# of Bottles
X 63 BEDIA	1142	C				soil, lots of cobble	IXIC
63BEDPIB	1120	C				L+ Brown Clayer	
63BEDPIC	11/2	C				LA Brown clayeysed	1
X 63 BEDING	1127	6			V-II	Dortesta Braun mand tols	ZX you
ef. Pt							
ef. Pt							4
ap Attach	ed: (es)	No			3	
	-	-	×	-			
ample Ty	e:	Screeni	ng C	confirmat	ion Ois	sposal/Characterization	
aboratory	Destin	ation:	Onsite L	ab A	SC - coc	# 107769 USACE-coc#	
		cate Tal		s (No		Rinsate Taken: Yes (No)	

BL 1157 Received by (dd/tt):

Received by (dd/tt):

Relinquished by(dd/tt):

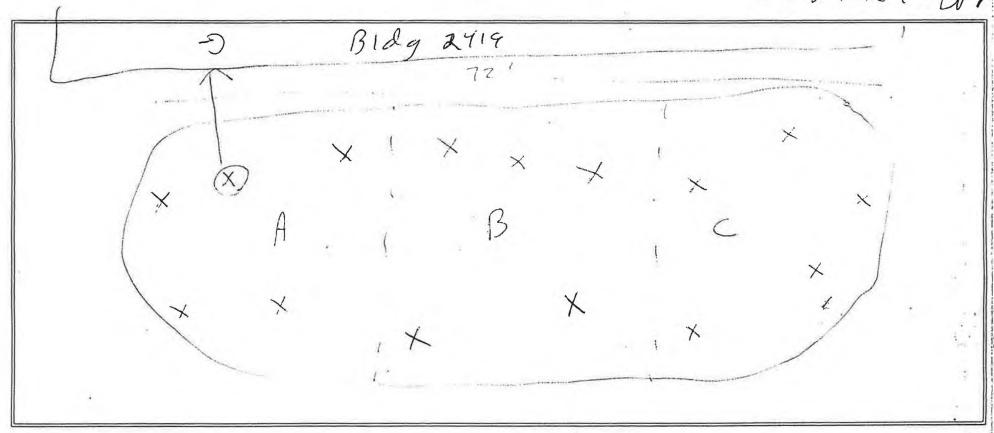
.elinquished by(dd/tt):_

Date: 12.20.94

Site Name:

AREE63BE

Duty Pile 1-DP1



Comments/Observations:

not to scale

Prepared by: ________

D Number	Time	The second second second	Sample Depth (ft)		dinates Ref. Pt.	Sample Description	# of Bottles
X 6318 EDP3A	1.357	<u></u>				with Sand Lots of Cabble	1X1L
EX63BEDP3B						noist flages mul Lot cable Strong toHoder	U
X 63BEDAK	51341	6				Send, lots of whole, THENER	ZXYOMI
						· ·	
	-44						
		6.					
Ref. Pt: Ref. Pt: Map Attach		(es)	No				· ·
Sample Typ Laboratory			ng C Onsite L	confirmati	ion Dis	sposal/Characterization # USACE- coc #	
	Dunlie	cate Tal	ken: Ye	s (No)	F	Rinsate Taken: Yes No	

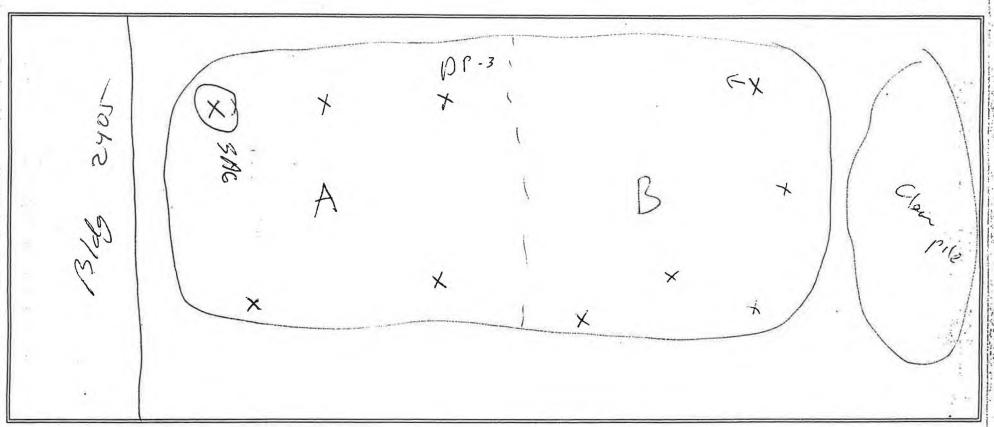
Received by (dd/tt):

elinquished by(dd/tt):_

12.20.94 Date:

Site Name: AREE 63BE

Duty Pile 3



Comments/Observations:

Mot to Scale Prepared by:

	· **				
1 a: 12.	19.91 Come	10		Site Nan	ne: A
Weather:	Sunn	y, co	» (Sampler	s:
Sample ID Number		Comp/	Sample	Coor	dinates
ID Number	Time	Grab	Depth (ft)	Ref. Pt.	Ref. Pt.

E163BE DP 5A C.958

18-24"

Site Name: AREE63BE Dirty Pile 5

Sample

Description Bottle

	1	
Pg	Zoi 2	
,	4	

of

Bottles

Variation .							-		
EX63BED5AG 0130	G	18 "			punsad,	letsof ce	Jelon Hille, TM	is. 2	XUOM!
EXG3BEDUP C958	C	18-24"			Dupo	J Exe	3BEDF	5A	IXIL
EX63BELLING 0930	6	18"			Duplica				
EX 63BETEPC958	C	18-24"			TRIPLICA				
EX 63 BETRIE 0930	G	18"			Triplicate	JE	(G3BEP)	THE	2 × 40
	3								
Sample Type:	1			_		_		ī.	1
Laboratory Destina	ation:	Onsite Lab) A:	SC - coc	#_10/76	8 U	SACE- co	c#	10777
Duplic	ate Tak	ken: Yes	No	F	Rinsate Taken	: Yes	(NO)		
	site Lat	oratory Cha	in of C	ustody/F	lequest for A	nalysis	Dit	1	e fals
Requested Testing Relinquished by(d			12.	Chlorda 20.24:		200	Other PA	3.1	1202
	Id/tt):	DABle	2 10	20.24:	Received by	(dd/tt):	other Ph	13L-	1202

Date: 17.7094

Site Name: ALCEE 63BE

Pg. 2

Bldg	2299	5 pt compi	sile		6 pt compos
			The second secon	×	
		· · · · · · · · · · · · · · · · · · ·	l .	+	×
	Spit complicate	*	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Ċ.	×
				× .	
	Di	ty Pile	# 5 = 1	OP5	

Comments/Observations:

wot A scall

Prepared by: ____/4/43

ite: 12.21.94

Site Name:

AREEG3BE Dirty Pile 6

Pg. Lof 4

Weather: Sunny, mild Samplers:

MRB(JD

Sample ID Number	Time	Comp/	Sample Depth (ft)	Coor	dinates	Sample Description	# of
EX 63BEOP6A	To the second	C	18"-24"			Lots of weet clay, little 5220, w coloble	Bottles / < L L
EX63BEDPG B		1			1	Clay and sand lats of	
EX63BEDPCC	1059					ned Brownszway soil, lofs of small cubble	
EX63BEDRD	1057					Clay 1015 of a book	
EX63BEDPG /S	0959					yellowed brown classy send, cobble, TPH small	
EX63BEDP6F	0909					Lots of cobble, littledex	
EX63BEDP6G	0832		MI			mix of golden brown Soul & grey clay, cubble	
Tu angon H	DEED	E	1			nold brown Send welsy lott of cabble moist	V
Ref. Pt Ref. Pt			υ A				A-
Ref. Pt Ref. Pt Map Attach	: : ed: (Y		No Cong C	Confirmat	ion Dis		A-
Ref. Pt Ref. Pt Map Attach Sample Typ	ed: (Y	Screeni	ng C		0	sposal/Characterization	
Ref. Pt Ref. Pt Map Attach Sample Typ	ed: (Y	Screeni ation:	ng C	ab A	ASC - coc #		
Ref. Pt Ref. Pt Map Attach Sample Typ	ed: (Y	Screeni ation: cate Tal	ng C Onsite L ken: Yes	ab A	ASC - coc #	insate Taken: Yes No	TCLP RA Cha
Ref. Pt Ref. Pt Map Attach Sample Typ	ed: (You	Screeni ation: cate Tal	Onsite Local Yes	ab A	ASC - coc # R Custody/Re Chlorda	insate Taken: Yes No equest for Analysis PCBs Pst Other 1201	TCLP RIA Cha- H 2011 matal
Ref. Pt Ref. Pt Map Attach Sample Typ Laboratory	ed: (Yoe: Destin	Screeni ation: cate Tal site Lat	Onsite Local Yes	ab A	ASC - coc # R Custody/Re Chlorda	insate Taken: Yes No equest for Analysis PCBs/Pst/Other_PCC	TCLP RA Cha-

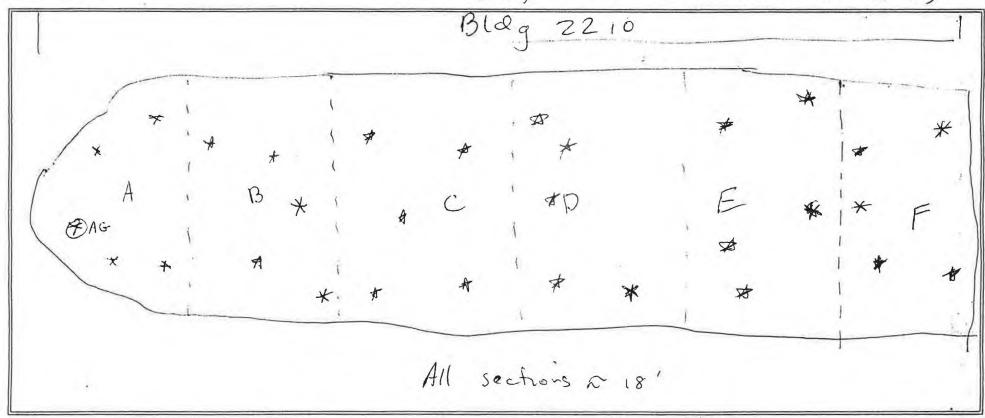
Weather:	24.	1		Samplers		UB/JD	1 0
Sample D Number	Time		Sample Depth (ft)	Coord Ref. Pt.		Sample Description	# of Bottles
EX 63BEDPET			18-24"			Some sond & copbie!	IXIL
J	0915					wet cizy w sz-a, lots of colobic	U
K	090					Will rolling sale clay	IXIL
L	6828	\forall	1			lots of cabble	14
EX63BED6AG	P 51	G	18 -			THIS NEW Clay	Zxyus
	0825		18			Clay en coull	2×404°
KG	0851	V	18"			greek clay coulder, little gold'sand	Zxelow
			1	1			1
 Ref. Pt Ref. Pt			1	A		*	Take s
	ed: Y pe: S	Screeni	Onsite L		SC - coc	sposal/Characterization	
Ref. Pt Map Attach Sample Ty	ed: Y pe: Destin	Screening ation:	ng (Onsite L ken: Ye	ab A	SC - coc	sposal/Characterization 107771 #	
Ref. Pt Map Attach Sample Ty	ed: Y pe: Destin	Screening ation: cate Takes site Lab	Onsite Len: Ye	ab A	SC - coc	# 107772 USACE- coc # No Request for Analysis	A chan
Ref. Pt Map Attach Sample Ty Laboratory	pe: Destin Duplic On-	Screening ation: ation: cate Takesite Lab	Onsite Len: Ye	ab A s No chain of C	SC - coc	Sposal/Characterization # 107772 USACE- coc # Rinsate Taken: Yes No Request for Analysis	
Ref. Pt Map Attach Sample Ty Laboratory	pe: Destin Duplic On- Testin ed by(d	Screening ation: cate Takesite Lab	Onsite Len: Ye	ab A s No chain of C	SC - coc	Sposal/Characterization # 107772 USACE-coc# Rinsate Taken: Yes No Request for Analysis PCBs/Pest Other Tother	A chan

Pg.Zof_

Date: 12. 21-94

Site Name: AREE 63BE

Duty Pile 6 - DP6 (sections A-F)



Comments/Observations:

Not to scale

*- Sample point

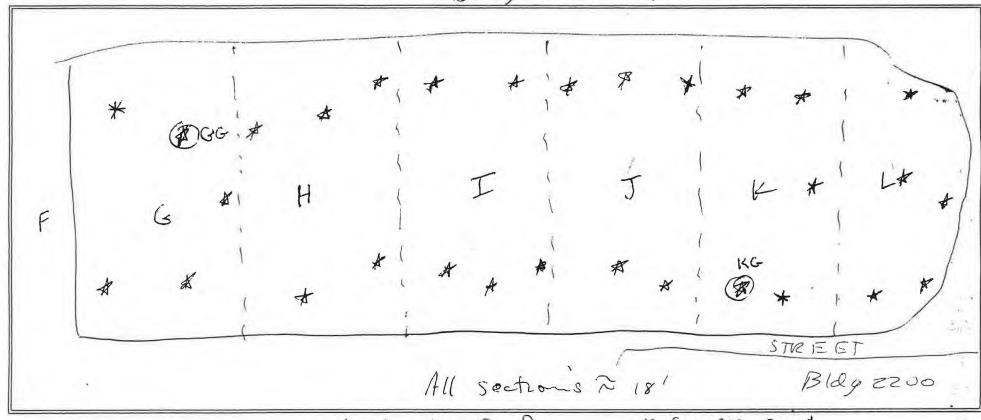
\$G-Szuple point &
grab point

Prepared by: _____MNB

Date: 12,19,94

Site Name: ARFE 63BF

Dirty Pile 6 - (Sections 6 - L)



Comments/Observations:

Not to Scalo

#-Somple point &

BG- Szaple point &

gran point

Prepared by: MRB

Date: 12 21.94

Site Name: AREE 63BE

Pg. Lof 1

of

Bottles

1X-10H

UOA

EXGBERPIA 1343

Sample

Weather: Sunny worm

C

Comp/ Sample

12-18"

ID Number Time Grab Depth (ft) Ref. Pt. Ref. Pt.

Samplers:

Coordinates

wars

Sample

Description

med brom sz-0, lots

CY 1030CC PID			1			ci.		. /			
EX 638E8 1C	1414	C				hed	BUS	vel, 10	10)		
EXESPER PLD	1452	L				ا في لهما	300ms	20,10	Psoj		
EXERGIFE	1502	C				Migh B	roms	201, 10	12.07		
EX63BELAF	1512	(med	Or s	= p Lot	30%		
1	15/7	C					11				
EX638&91+	1520	V					11			J	
Ref. Pt Map Attach		es)	No								
Map Attach Sample Typ	ed: Ye	creeni	No ng Co	onfirmatio	on Di						_
Map Attach	ed. Yebe: (S	creenin	No ng Co	onfirmatio	on Di SC - coc	#					_
Map Attach Sample Typ Laboratory	ed: Ye Destina Duplica On-s	creening tion: ate Tak	No Onsite La cen: Yes	onfirmation AS No ain of C	on Di SC - coc F Custody/F	#Rinsate T	aken: or Analy	USACE Yes (N			_
Map Attach Sample Typ Laboratory Requested	ed: Ye Destina Duplica On-si	icreening tion: ate Take tite Lab	No Onsite La cen: Yes oratory Ch	onfirmation b AS	on Di SC - coc F Custody/F Chlorda	#Rinsate T Request f	aken: or Analy PCBs	USACE Yes N sis	•	e e	- 10.
Map Attach Sample Typ Laboratory	ed: Ye Destina Duplica On-si	icreening tion: ate Take tite Lab	No Onsite La cen: Yes oratory Ch	onfirmation b AS	on Di SC - coc F Custody/F Chlorda	#Rinsate T Request f	aken: or Analy PCBs	USACE Yes N sis	•	e e	- 10.

Sample Location Map
Fort Devens - Project #16208

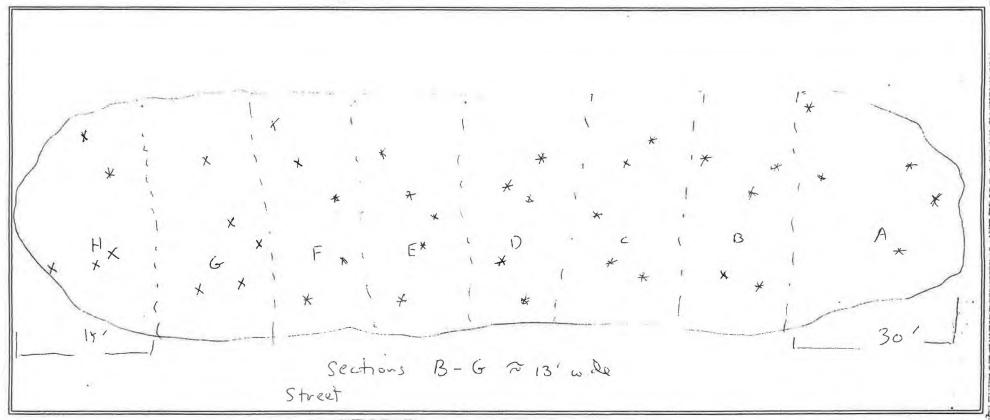
AR FF 63 BE Clean Pile (= CP)

 $Pg.\underline{2}of\underline{2}$

12.21.94 Date:

Site Name:

Bldg 2210



Comments/Observations:

Bldg 2289

Not to scale

* somple points

Prepared by: _

AREE

Pg. <u>/ of 2</u>

Date: 12-22-94

Site Name: 63BE pile 2

Weather: Sunny & M. Id

Samplers: HRB

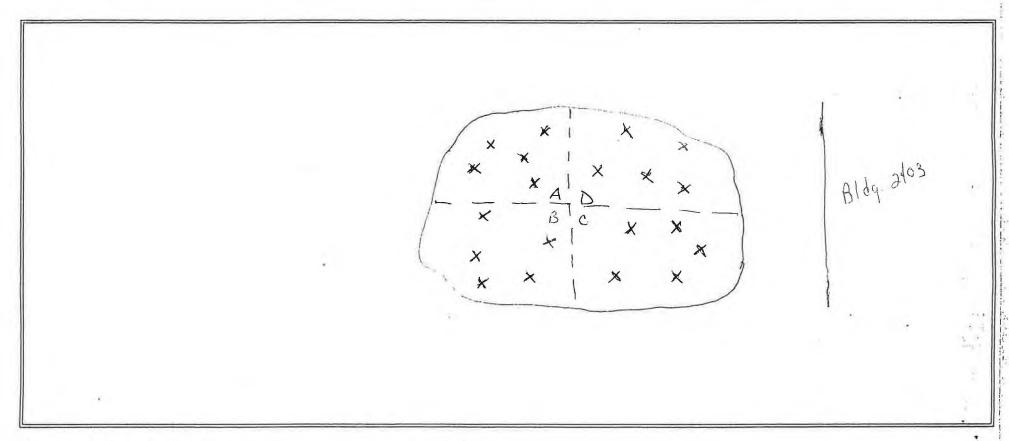
Sample ID Number		Comp/ Grab	Sample Depth (ft)		dinates Ref. Pt_		ample scription	# of Bottles
5x63381	13.14	C	13.24'			Med Brown	Sund of cobble	1 x 40 m
2.5	12.52			Speed HA	P	**	A ¢	
2 C	12'42					3.3	3 (4)	
30	13.17	4	+			TN-	VI	1
		8						

Ref. Pt:	
Ref. Pt:	
Map Attached: Yes No	A.
Sample Type: Screening Confirma	tion Disposal/Characterization
Laboratory Destination: Onsite Lab	ASC - coc # USACE- coc #
Duplicate Taken: Yes No	Rinsate Taken: Yes No
On-site Laboratory Chain of	Custody/Request for Analysis
Requested Testing: TPH BTEX	Chlordane PCBs Other
Relinquished by(dd/tt):	Received by (dd/tt):
Relinquished by(dd/tt):	Received by (dd/tt):

Pg. 2 of 2

Date: 12-22-94

Site Name: AREE 63BE



Comments/Observations:

X - somple location

Prepared by: M. Quin lan

Weather: /	_		1.0			REE 63BE	
	100	cry	cold	Sample	rs: BL)	
Sample	_		Sample		dinates	Sample	# of
ID Number	Time		Depth (ft)	Ref. Pt.	Ref. Pt.	Description	Bottles
SBARE3BE AC	1500	C				gpt composite	2X4
SBARGBE	1442	6				Clay from pt SBAR638FAI	7×40
AG	1111					127 from pt SIDIAK6314-111	Nob
					VIII -		
					-		
		1					
Kei. Ft. 11		0.00	poxt	by	Blag	229/	
Ref. Pt. <u>G</u> Map Attach		-	No	+			
Map Attach	ied: Y	(es)				Not	e; Co
	ied: Y	(es)		Confirmat		sposar Characterization w	e; Co
Map Attach	pe:	(es) Screeni		-		sposal/Characterization ws # 107782 USACE-coc#	the 1.
Map Attach	pe:	Screeni	ng (ab /	ASC - coc	# 107787 USACE-coc#	the 1.
Map Attach	pe:	Screeni	ng (ab /	ASC - coc	sposar Characterization w	the 1.
Map Attach	pe: Some Destin	Screeni ation:	onsite L	ab /	ASC - coc	# 1077 87 USACE- coc #_ Rinsate Taken: Yes No	the 1.
Map Attach	pe: Some Destin	Screeni ation:	onsite L	ab /	ASC - coc	# 107787 USACE-coc#	the 1.
Map Attach	pe: Some Duplication On-state of the Park Technology (Park Technology (Par	Screeni ation: cate Tal	Onsite Lorent Yes	ab /	ASC - coc F Custody/R Chlorda	# 107787 USACE-coc #_ Rinsate Taken: Yes No	the 1.
Map Attach Sample Tyl Laboratory Requested	pe: Destin Duplic On-s	Screeni ation: cate Tal	Onsite L	ab No	ASC - coc F Custody/R	# 107787 USACE-coc#_ Rinsate Taken: Yes No Request for Analysis The PCBs Other BA	JA
Map Attach Sample Typ Laboratory	pe: Destin Duplic On-s	Screeni ation: cate Tal	Onsite L	ab No	ASC - coc F Custody/R	# 107787 USACE-coc #_ Rinsate Taken: Yes No	JA

Sample Collection Log Supplemental Form Composite Sample Data Fort Devens - Project #16208

Pg.2of3

Date: 1, 12, 95 Site: AREE63BE Sampler: MRB

NOTE: SBAR63BE AG was taken from point A1

Composite	Discrete		linates ·	
Sample ID	Sample ID	Ref. Pt. A	Ref. Pt. G	Sample Description
SBAR63	Aı	71'9"	57'11"	wet prexish sandy clay wet brown sand brown clay and cobble It brown sand with rocks
301100	AZ	70'6"	50174	met wown soul
BE AC	A3	67'9"	421811	brown clay and cobble
BE AC	Ач	61'6"	391511	It brown said with racics
	A5	56'11"	35111	bu and soul and over Clar - TPH oder
	AG	5 m/18 50'2"		grey clay, lorown soul-TPHODE
	A7	4316"	4012"	met greyclay TPH odor
	A8	3710"	41'3"	wet lovamish clay
	Aq	33' 3"	4417"	grey clay, wown sand-TPHODE wet grey clay, TPH odor wet wowish clay brown 5 and
				-
				+
	-			+
				+
	/			
	7 = = 3			

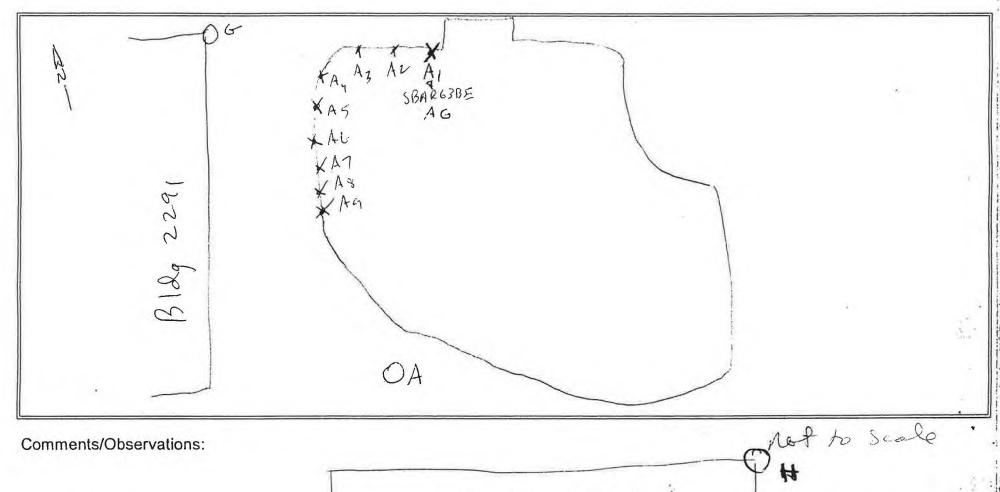
Depter 11' 10'10 9'6" 9'4" 8'4" 10'0"

8 '11'

Date: |. | 2-95

Site Name: AREE 63BE

Pg. 3 of 3



Comments/Observations:

Bl&g 2299

Prepared by: MRB

Sample D Number	Time		Sample Depth (ft)		dinates Ref Pt	Sample Description	# of Bottles
S.BAR 63BE		C	Deptit (it)	(CI. 1 C.	1	6 pt composite, ten solly, silty much sluny, value	ZXYO
BC	1500	6					
BARGE	1205	G				Tan clayer sand Grab from SBARGBEBI	ZXYOW
BAR63BE CC	1300	C				roud slewy w some racks	
BAR638E	1305	6				ten sense works.	2x con
CG BANDOBE DC	1300	-				wet rocky SER	2X405
BAR63BE DG	1210	G				Brown large granadsad	2xyond UOA
SPAILO3BE EC	1330	C				Brown , goly med	ZX40
BAR63PE	1335	6			-	Grey Cray tet ofor from SBANGBEEI	2, X 40, L
Ref. Pt. A Ref. Pt. G H Map Attach Sample Ty Laboratory	ed:	es)	No	Bl ag	22299 Ion) Dis	sposal/Characterization 107782 mas # 107784 USACE-coc#	
	Duplio	cate Tal	ken: Ye:	(No)	F	Rinsate Taken: Yes No	

Received by (dd/tt):_

Relinquished by(dd/tt):_____

Pate: 1.13.95

Site Name:

AREE 63BE

Pg. 2 of 4

Weather: Sunny, wol

Samplers: MRB/BD

Sample		Comp/	Sample	Coor	dinates	Sample	# of
ID Number	Time	Grab	Depth (ft	Ref. Pt.	Ref. Pt.	Description	Bottles
SBAILL3BE	1545	C				Grey mul w ten sity. 52-2 Slurry, 6pt onposite	22402
SBAR63BE	1515	G				SBARBBEEL	2×40ml Vor)
SCARLIBBE	1330	C				SBAR63BEEC	2×402
5BAR63B18 D4	1335	6				Duplicate of SBARC3BEEG	ZXUOM
SBAR630= TP	1330	C				Triplicate of SBAR	2×402
513AR63BE TY	1335	6				Triplinte of SBAR63	2 x uoml VOA

ref. Pt. A: Te lephone p	iole
Ref. Pt. G: Ferce post	hear bldg 2291
4 Corner of 1	31dy 2299
	se Comborite result 10525 Fad 1.19
	firmation Disposal/Characterization
Laboratory Destination: Onsite Lab	ASC - coc # 107784 USACE - coc # 107788
Duplicate Taken: Yes	
On-site Laboratory Cha	in of Custody/Request for Analysis
Requested Testing: TPH BTE	
Relinquished by(dd/tt):	1600 Received by (dd/tt):
Relinquished by(dd/tt):	Received by (dd/tt):

Sample Collection Log Supplemental Form Composite Sample Data Fort Devens - Project #16208

Pg. 3 of 4

ate: [113 .95

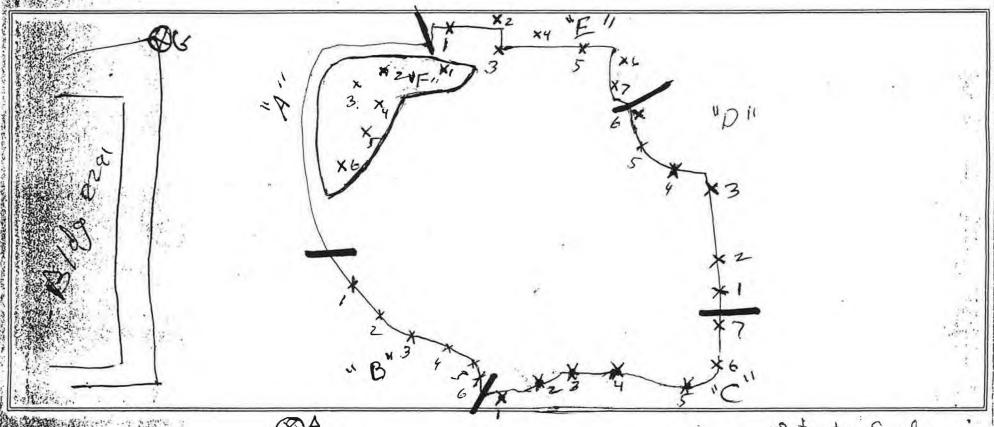
Site: AREE 63BE

Sampler: BD/MRB

nposite	Discrete	Coordin	nates Feat	I am found street	
nple ID	Sample ID	Ref. Pt. H at I	Ref. Pt. Gall	Sample Description	
-	(*	22'6"	116'0'	ter clarch 25-mg	
3	2	14'68	10554	ten charges said	
	3	15144	96'0"	tenclayer sad	
	4	211011	82'0"	ten chexay soul	
	5	21'6"	76'6"	tourlover sand	
	6	32'4"	66'3"	ter clayey sad	
	1 8	37144	5 1'6"	ten sed wrocks	
	2	481011	50000	ter clayer sal	
	3	55'6"	47'6"		
	4	71'6"	33'6"	tenclexey sono	
C	5	85'04	23'6"		
	6	90'0"	31'2"		
	7	90'0"	38'2"		
-	1.	9116"	47'2"3	brown land are all soul	T
	2	1.5	56154	It brown land grand said	0
	3	47124	1.81 811	It brown large grained said.	va
	4	9464	7711"	g ~ 2 rely 5 2 20 grey cizy	
D	5	874	851 2114	arey clay LON oden	
	10	80 47	87'11"	brown gravely sone	
				(
	11		67'5"	Grey clay, TPH adar	
	2	82144	77'5"	time orange send	
[4	781111	78'5'	grey clayes gren sens	
		781.60	89 5"	gray crayosa.	
	5	821/0"	103 4	coase gravely sand	-
	0	8512"	971711	10 mont 5 2nd	-
	7	78'0"	47.7.	gree cheresses agus	
	1 -	42:34	7110"	greymod	
	2	760	121	ten grey mud	
F	4	65'6"	63'0"	fan sandy elay	7
	4	54134	64164	grey mid	
	5	45'6"	681711	grey med	
	6	42'0"	63104	grey med	
	W_	960	541211	9.4	-

Pg. 4 of 4

Site Name: A REEGBE



(X)A

Not to Scale

Blog 2299

Prepared by: MRB

 $Pg.\underline{1}of\underline{3}$

Date: 1-16-95

Site Name: AREE 65BE

Weather: Warm, Partly Closely Samplers: BD

Sample ID Number	A STATE OF THE REAL PROPERTY.		Depth (ft)	Coord Ref. Pt.A	Ref PtG	Sample # of Description Bottles
GBARE3BE GOI	10.0 Z	G	12'2"	46' Z"	110'2"	Brown mud U some rooks 1x40 ~1
" Goz		Ĩ	12'3"	36'3"	100'5"	Brown and of some rocks
G03	1013		12'2"	33'4"	93'2"	Bran mud u/ some rocks
604	1017		12'1"	31'10"	82'4"	Brown mid u/ some focky
605	1019		12'6"	25'7"	84'11"	Bran mud u/son rocks
606	1023		11'1"	28'10"	52'8"	Brown fra not u/swerois
G07	1025		11'6"	40'10"	48'3"	Brown/th mul u/ some kd
608	1028	4	116"	68 '6"	79'8"	Brown mud 3/50-4 4 mg

Ref. Pt. A: POLE	
Ref. Pt. G: FENCE CORNER	
Map Attached: Yes No	
Sample Type: Screening Confirmation Disposal/Ch	naracterization
Laboratory Destination: Onsite Lab ASC - coc # 107	775 USACE- coc #
Duplicate Taken: Yes No Rinsate Taken	aken: Yes No
On-site Laboratory Chain of Custody/Request f	or Analysis
Requested Testing TPH BTEX Chlordane	PCBs Other
Relinquished by(dd/tt): 4 1-16-95 1/30 Received	d by (dd/tt): Vill DL 1-16-95 1/30
Relinquished by(dd/tt): Received	d by (dd/#):

Soil Sample Collection Log Fort Devens - Project #16208

Pg.<u>Zof_</u>3

Date: 1-16-95

Site Name: An EE 638E

Weather: Own faily Cloudy

Samplers: 80

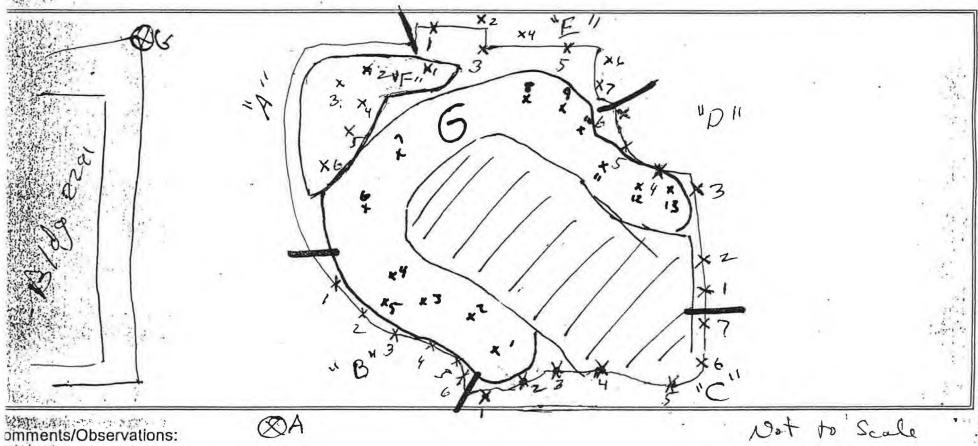
Sample ID Number	Time	Comp/ Grab	Sample Depth (ft)	Coord Ref. Pt. A		Sample Description	# of Bottles
sbarisbe 609	10:33	G	116"	75'16"	98'3"	Brown mud U/some grey	1×40-1
* C10	1040	6	116"	76'	94'2"	Brown mit u/ sone gren	
, 611	1041	6	12'	72'9"	100'	Brown mud J/son grey	
# G12	1043	6	12'	73'	110'	Brown mud	
L 613	1044	6	12'	86'-1"	130'	Brown myd V/sombin	-
u GC	1045	C		-	-	Brown FAN MUN SLUPRY U/10045	2×407
, GG	1040	G	116"	76'	94'2"	Brown mudu/six grey	2×40~ VOA

Ref. Pt. A :	
Ref. Pt. G: FENCE CORNET	
Map Attached: (Yes) No	
Sample Type: Screening Confirmation Dispo	sal/Characterization
Laboratory Destination: Onsite Lab ASC - coc # _	07785 USACE- coc#
Duplicate Taken: Yes No Rins	sate Taken: Yes No
On-site Laboratory Chain of Custody/Req	
Requested Testing: TPH BTEX Chlordane	PCBs Other Total BNA
Relinquished by(dd/tt): 1-16-95 1/3 Re	eceived by (dd/tt): WAL 1-16-951130
Relinquished by(dd/tt): Re	eceived by (dd/tt):

Sample Location Map Fort Devens - Project #16208

Pg. 3 of 3

Site Name: A REE63BE



Blag 2299

Prepared by: MRB

Appendix E

On-site Laboratory Soil Boring Results



December 28, 1994

Mr. Mark Applebee CENED-ED-EH Bldg. 112 South 424 Trapelo Road Waltham, MA. 02254

RE: TPH Screening Results

Investigative Soil Borings - AREE 63BE

Contract DACW89-45-D-0506 Fort Devens - Various Sites

Dear Mark:

Attached is a map of the soil borings locations at AREE 63BE and a summary of TPH screening results of samples collected during boring activities. Ten investigative soil borings were installed to determine the lateral extent of petroleum contamination in the subsurface soils at the site, and to assess the potential that other USTs in the area may be contributing to the contamination. In addition to the on-site TPH screening, one sample from each boring was also submitted to an off-site laboratory for TPH analysis by EPA Method 418.1. Five samples were also split with a representative of the MADEP. OHM will provide a more detailed report of the investigation at a later date when the off-site analytical data is received and the investigation is deemed complete.

Please contact me at (508) 772-2275 if you have any questions regarding this letter or the attached information.

Sincerely,

OHM Remediation Services Corp.

Kevin Mack

Project Engineer

cc: Bill Snow - OHM (1 copy w/attachment)

Tim Coleman - USACE (1 copy w/ attachment)

Project file

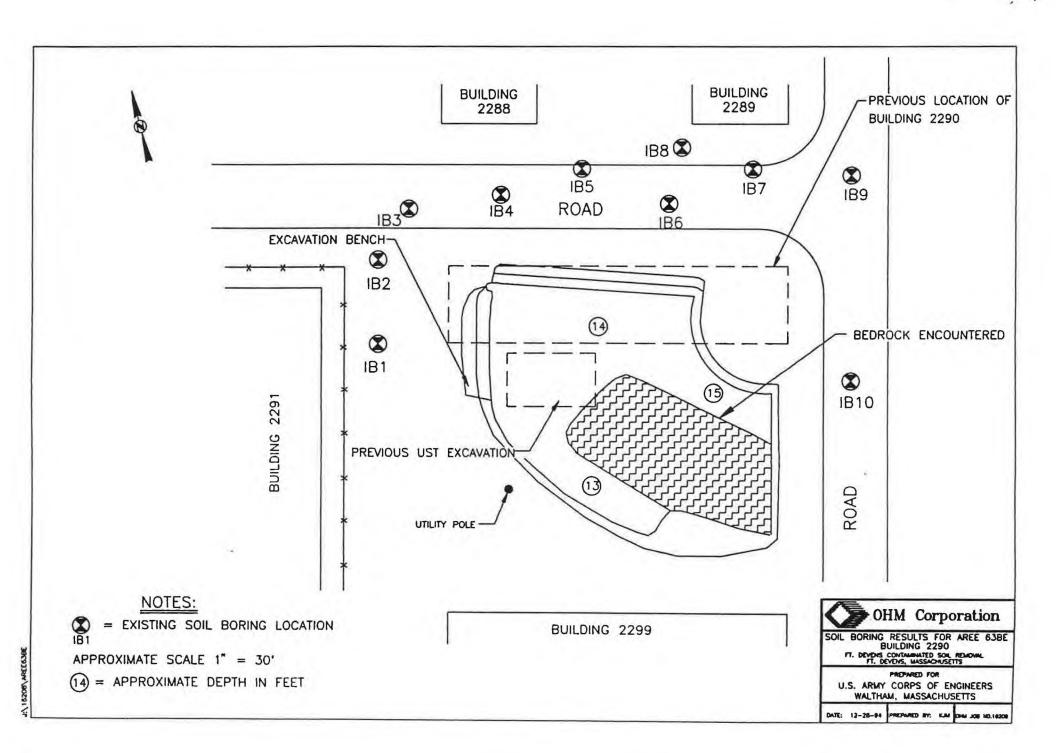
AREE 63BE SOIL BORING RESULTS

BORING LOCATION	DEPTH (FEET)	TPH CONCENTRATION (PPM)	BORING LOCATION	DEPTH (FEET)	TPH CONCENTRATION (PPM)
IB1	5-7' 7-9' 9-11' 11-12' 12-13.5' 14-15'	ND(42) ND(42) ND(42) ND(42) ND(42) ND(42) ND(42) ND(42)	()	5-7' 7-9' 9-11' 11-13' 13-15' 15-17'	ND(42) 6J 1632 1077 691 89 193
IB2	5-7' 7-9' 9-10'	ND(42) ND(42) ND(42) NO \$2.33	IB7	5-7' 7-9' 9-11'	ND (42) 8J 221
IB3	5-7' 7-9' 9-11'	ND(42) ND(42) ND(42) NG(+24)		11-13' 13-15' 15-17'	163 0 //00 60 25J
IB4	11-13' 13-14.9' 5-7'	ND (42) ND (42) ND (42)	IB8	5-7' 7-9' 9-11'	ND(42) ND(42) 23J
	7-9' 9-11' 11-13'	ND(42) ND(42) ND(42)		11 – 13' 13 – 15' 15 – 17	122 140 ND(42) ND(42)
IB5	13-15' 15-16.5' 5-7'	ND(42) (2 (IB9	5-7' 7-9' 9-11'	ND(42) ND(42) ND(42)
	7-9' 9-10' 10-11' 11-13'	50 324 287 ND(42) ND(42)		11-13' 13-15' 15-17' 17-19'	915 573 415 101 ND(42)
	13-15' 15-16.3'	ND (42) ND (42)	IB10	5-7' 7-9' 9-11' 11-13' 13-15' 15-17' 17-19'	ND(42) 518 ND(42) 600 721 4 3 ND(42) ND(42)

Notes: ND() = Indicates TPH not detected at specified detection limit.

J = Indicates estimated concentration below practical quantitation limit.

Results are based on field screening by IR.



Pg. 1 of 4

Date: 12-20-54

Relinquished by(dd/tt):_

Site Name: AREE 633E

Weather: Suny & cold

Boring ID: IB/

Samplers: M. Quintan

Sample ID Number	Time	Sample Depth(A)	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IBIA	0915	5-7'	10,10	6"	Brown silty sand wichble	0.4	1x402 Amb. Glas
IBIB	3 ⁴³⁰	7.9'	10 15	15"	Brown clayof sand of rock	0.3	
IBIC	oges	9-11	15 45		Brownlaray clayer sand rock	0.2	
IBID	ouss	11-12	44,100 refuse(12"	moist sand lens - Brown clayey send w/ watherdrack	122	
IB1E	کده،	12-135	42 13%	Meis	rock - very hard	0,2	
BBIF	1050	14-15	NIA	10"	some as above	0.4	1
			-				

Comments:	Gw-12-13	BGS	bedrack jus	t very tich	+ 50:1
Map Attached: 🖔					
Sample Selected	or off-site analysis:	AR63BE	IBIC		
aboratory Destin	ation: Onsite Lab	ASC - coc#	107773	JSACE- coc#	
Duplie	ate Taken: Yes No	Rin	sate Taken: Yes	No	

Received by (dd/tt):

Pg. 2 of 4

Date: 12-20-94

Site Name: AREE 63 BE

Weather: Sunny & Cold

Boring ID: IBZ

Samplers: H. Quin (~

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB2 4	1125	5-7	6 9	12	Brown clayery sand	NIA	Anb Clas
I328 I32C	1135	79'	19 34	20	Brown clayey soil will weathered voil - very hard	PIA	1
132C	ردنوع	9-10	48 105	12	same as above	VIA	4

		-					
Comments:	Refusel a	ncountere	d at 10	-not	bedrock	e-just	hord so
Comments:/	PID not	t Funda	sing	Proper	1-		
Map Attached: 70			J		/		
Sample Selected for	or off-site analysi	s: <u>AR63</u> B	EIBZL		_		
Laboratory Destina	ition: Onsite L	ab ASC -	coc# <u>(37</u> 7	173	USACE- c	oc#	
Duplica	ate Taken: Ye	s No	Rinsate Ta	aken: Ye:	s No		
On-sit	te Laboratory C	hain of Custo	dy/Request	for Analysi	s		
Requested Testing	: (IPH) E	BTEX Ch	ordane	PCBs	Other		
Relinquished by(do	i/tt):		_ Received	d by (dd/tt):_			
Relinquished by(do	d/tt):		Received	d by (dd/tt):			

Pg.3_of_

Date: 12-20-94

Site Name: AREE 63BE

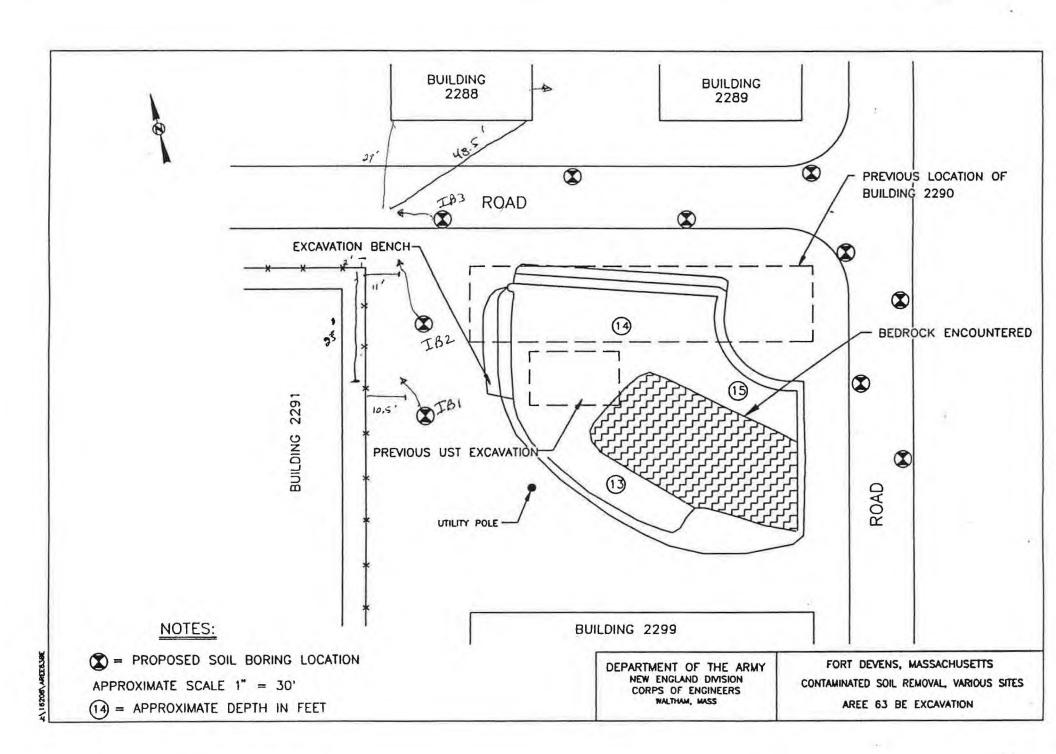
Weather:

Boring ID: IB 3

Samplers:

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
	1243	5-7	32 30	10	Brown send w/ cobble	NIA	1 x 40to
IB3B	ا کم ،	7-91	13 6	3	Brown dayof Sand will weathered rock	1	
LB3 C	1333	9-11	24 28	15	Brown/Groy clay w/ weathered rock		
1B3 D	1310	11-13	34 29	13	(moist) Some as about		
IB3 E	1375	13 - 14.9	13 52	18	some as obout	1	طلا

Comments: Rafusal at	approx. is' - bedrock
Comments: Refusal at PID not	Functioning property
Map Attached: Yes No	· V
Sample Selected for off-site analysis:	ARUBEIB3D
Laboratory Destination: Onsite Lab	ASC - coc # 107773 USACE- coc #
Duplicate Taken: Yes	No Rinsate Taken: Yes No
On-site Laboratory Chai	n of Custody/Request for Analysis
Requested Testing: TPH BTE	X Chlordane PCBs Other
Relinquished by(dd/tt):	Received by (dd/tt):
Relinguished by(dd/tt):	Received by (dd/tt):



Pg. 1 of 4

Date: 12-20-94

Site Name: AREE 633E

Weather: Suny i cold

Boring ID: IBI

Samplers: M. Quintan

Sample ID Number	Time	Sample Depth(A)		Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IBIA	0915	5-7'	10,10	6"	Brown silty Sand wichble	0.4	1x402 Amb. Glas.
IBIB	3530	7.9'	10 15	15"	Brown cloppy sand of rock	0.3	
IBIC	0945	9-11	15 45	13"	Brownlaray clayon sand pock	0.2	
IBID	0455	11-12	44,100 refuse(12"	moist sand lens -> Brown clayey sand w/ watherdrock	422	
IB1E	1025	12-13,5	42 13%	MGIZ	clayey sand of meathered rock - very hard	0.2	
IBIF	1050	14-15	NIA	10"	some as above	0.4	1

Comments: _	refusal at 15 - not bedrock just very tight Soil
	Gw-12-13' BGS
Map Attached	f: (Yes) No
Sample Selec	cted for off-site analysis: AR63BETBIC
	estination: Onsite Lab ASC - coc# 107773 USACE- coc#

Requested Testing: TPH BTEX Chilords	ane PCBs Other
Relinquished by(dd/tt): Mehal X Jul 15/20	Received by (dd/tt): MA 2 13/30/94
Relinquished by(dd/tt):	Received by (dd/tt):

Pg.2 of 4

Date: 12-20-94

Site Name: AREE 63 BE

Weather: Sunny & Cold

Boring ID: IB2

Samplers: H. Quin (a

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
I32 A	1125	5-7	9 9	12	Brown clayery sand	NIA	Anb Clas
I32B	1135	79'	49 54	30	Brown clayey soil will weathered vock - very herd	PIA	1
1320	ردغه	9-10	48 105	12	same as above	VIA	4

Comments:	Refusel	presur	tered at	10'- not	- bedroc	K-just	hord so
	PID .	not F.	Indianing	Prope	1-1		
Map Attached: 2			J	t- (1		
Sample Selected	for off-site an	alysis:A	R63BE IBZ	در			
Laboratory Destin	ation: Ons	ite Lab	ASC - coc # 10	7773	USACE- o	oc#	
Duplic	cate Taken:	Yes No	Rinsat	e Taken: `	Yes No		
On-s	ite Laborato	ry Chain of	Custody/Reque	est for Analy	ysis		
Requested Testin	g. (JPH)	BTEX	Chlordane	PCEs	Other		
Relinquished by(d	ld/tt):		Rece	ived by (dd/t	t):		
Relinquished by(d	ld/tt):		Rece	ived by (dd/t	t):		

Pg.3_of_

Date: 12-20-94

Site Name: AREE 633E

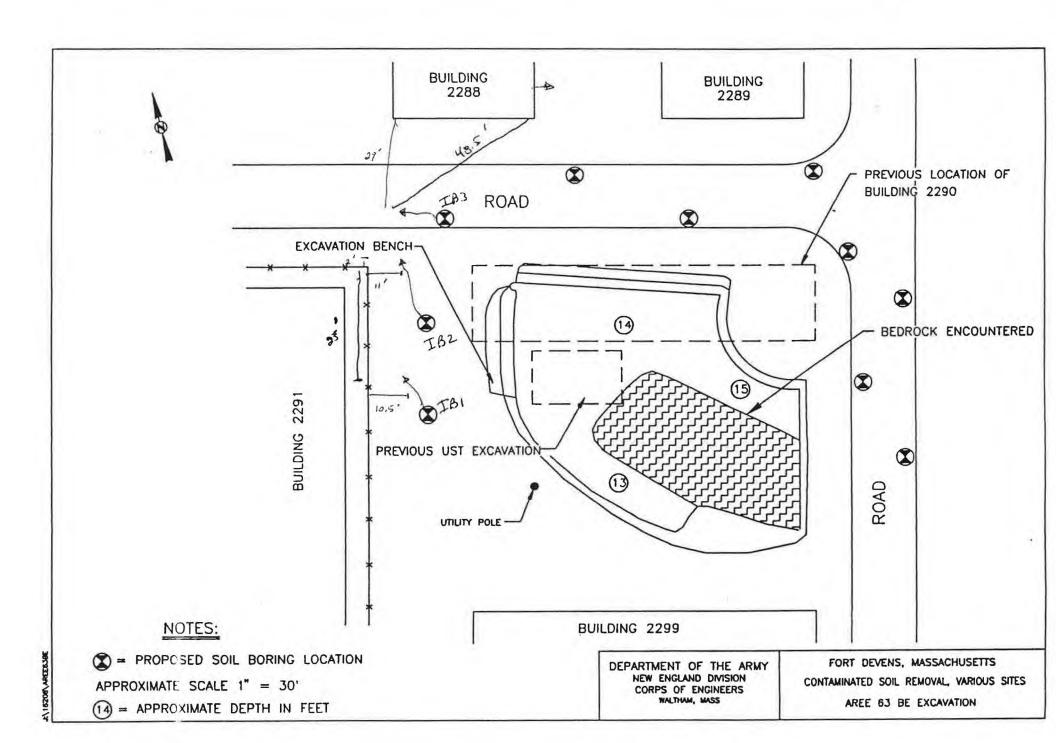
Weather:

Boring ID: IB 3

Samplers:

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
133A	1240	5.7	32 30	10	Brown send w/ cobble	NA	1 x 40t Anb. Colos
/	1250	7-91	32 26 13 6	3	Brown claypy sand will weathered rock	1	
IB3C	13,3	9-11	3 13 24 78	15	Brown/Gray clay w/ weathered rock		
100	1310	11-13	34 29	13	(moist) Some as about		
£B3€	1325	13-14.9	13 52	18	some as obocce	1	طلا

Comments: Refusal	+ approx.	15' -	bedroo	K		
Comments: Refusal a	ot Functio	ning pr	operly			
Map Attached: Yes No		5 ,	i (
Sample Selected for off-site analy	sis: AR637	BEIB3D				
Laboratory Destination: Onsite	Lab ASC-	coc#_107	773	USACE-	coc #	
Duplicate Taken: Y	es No	Rinsate	Γaken: Y	es No		
On-site Laboratory	Chain of Custo	ody/Reques	for Analy	rsis		
Requested Testing: TPH	BTEX Ch	lordane	PCBs	Other		á
Relinquished by(dd/tt):		Receive	ed by (dd/tt	:):		
Relinquished by(dd/tt):		Receive	ed by (dd/t	:):		



Pg. 1 of \$

Date: 12 21 - 44

Site Name: ARCE US BC

Weather: Artly Sunny: mild Boring ID: IB+

Samplers: M 4 Q

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
AR63BE IB4A	U755	5-7	7 8	18'	White & Brown Fine Sound	nD	1 x 4 3 2
1348	080C	7.9	24 16 13 °i	13"	to grayish closely send	ND	*
IB4C	03i5	9-11	16 22	1911	Clayey send wetthered isch	NID	
IB+ D	2825	11-13	36 32	20"	Brownich/gray e lay (whight)	10	
IB4E	5940	13-15	17 20 42 5 F	31"	Brownishlyray claying sind	3.4	
IB4F	০৪১১	15-165	120/6	(B ['])	some as above	9.4	1

Comments: _	Refusal encountered at 165 BGS
Map Attached	: Yes No
	ted for off-site analysis: AR 63BE IBHE - also split of M.E. for MADEP
Laboratory De	estination: Onsite Lab ASC - coc # 107773 USACE- coc #
-	uplicate Taken: Yes No Rinsate Taken: Yes No

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing:	(TPH)	BTEX	Chlord	ane	PCBs	Other	17	
Relinquished by(dd/t): MX1	June!	1530	Receive	d by (dd/tt):	My	Link 12/31/44	1530
Relinquished by(dd/t	t):			Receive	d by (dd/tt):			

Pg.ZofS

Date: /2-21-94

Site Name: ARCE 6385

Weather: Suny & M. U.

Boring ID: IB5

Samplers: M GU

Sample ID Number	Time	Sample Depth (F _b)	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB5A	0975	5-7'	1 1 2 4	10"	Brown medium sand w/	3	Auber Glas
	08FB	7-91	3 19 23 30	19	course sand mix m	1	
CB5C1	৩५ 5৩		3 16	191'	6-8 met lens of sand at To' discolared of odor (moist-a met)	7 38	
IB SOF	0950	10-11	23 24		Brown sloggy send up odor	4.8	
165 BZ	1005	11-13	23 26 37 33	19 "	Brown clayey sand w/ rock	0.8	
	1045	13-15	17 19	19"	Some as above	0.6	
IBSF	(050	15-163	38 100/3	6"	(* (* ()		

Comments:	refus	cd at 16	3 "				
Map Attached:	Yes	No		_ to ASC	-		
Sample Selecte	ed for off-s	site analysis.	AR 63BE	501 + 502	split w	MIE for	State MADEP
Laboratory Des	stination:	Onsite Lab	ASC -	coc#10777	3 us	ACE- coc #_	
Du	plicate Ta	ken: Yes	No	Rinsate Take	n: Yes	No	

On-site Laboratory Chain of Custody/	Request for Analysis
Requested Testing: TPH BTEX Chlords	ane PCBs Other
Relinquished by(dd/tt): 1530	Received by (dd/tt): 1/1 lund 1530
Relinquished by(dd/tt):	Received by (dd/tt):

Pg.3 of 5

Dale: 12-21 11

Site Name: AREE 63BE

Weather: Sunny & Mild

Boring ID: IB6

Samplers:

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
IB6A	1155	5-7'	2 3 3 3	14"	Brown medium sand	ND	1x402 Amb.Chrs
136 B	1200	7-9	18 22	7.	coarse send ul rock	40	
IB6C	1215	9-11	13 9	24"13	gray clayer sand of odor	56	
IB6D	1200	11-13	7 23	17"	gray elap send of odor frack	80	
IB6E	1250	13-15	27 26	10	brownlying clayery send alrak	34	
136F	1300	15-17	52 4°	13"	Brown/gray clayery son & we weether od rock	y 0	4

Comments:		at 17	encountering refus	sel at 3' on initial bori	ng
Map Attach	ed: Yes	No			
Sample Sel	ected for off-s	ite analysis: AR63	BE TAGO - split i	ME for MADEP	
Laboratory	Destination:	Onsite Lab A	SC - coc#	USACE- coc#	
	Dunlicate Ta	ken: Yes No	Rinsate Taken	: Yes No	

On-site Laboratory Chain of Custody/Request for Analysis

Requested Testing: TPH BTEX Chlord	ane PCBs Other
Relinquished by(dd/tt): X dul 1530	Received by (dd/tt):
Relinquished by(dd/tt):	Received by (dd/tt):

5.4

Pg. 4 of 5

Date. 12 11-94

Site Name. ALEC 6325

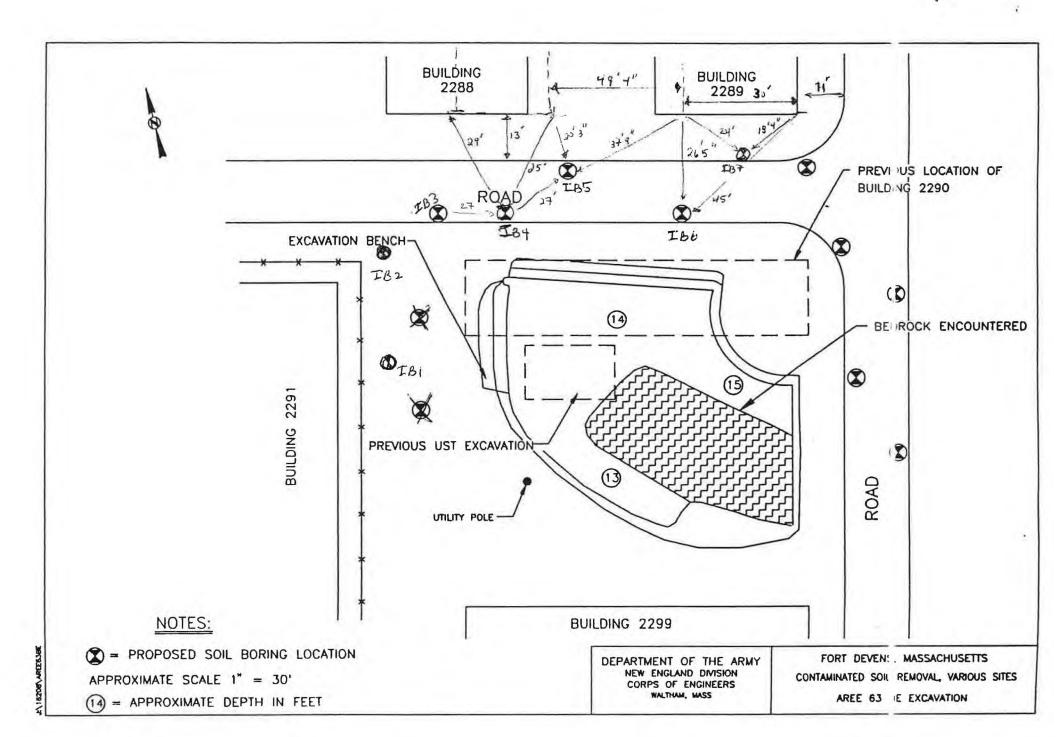
Weather: Sunny & MILD

Boring ID: IB7

Samplers: MGQ

Sample ID Number	The second second	Sample Depth(f4)	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles	
IB7A	1405	5-7'	3 3	16	orange, tan med sand	0.4	1x402 Ambur Clas	
IB7B	1490	7-9'	7. 9	14	med Ton Sond giros ony to	0.4		
IB7C	1420	9-11'	16 22	16	coarse sond gives way to shapey	12		
IB7D	1430	11-13	6 8	ール	gray clayer and wi rock to	78		
IB7E	1445	13-15	13 28 22 32	10	Same as above slight odor	40		
TB7F	1450	15-17	13 18	16	same as above	28	1	

Comments: refusal enco	untered at	17		
Map Attached: Yes No				
Sample Selected for off-site analysis:A	63BEIB7D - 5 pict	u/ MIE for	- MADER	>
Laboratory Destination: Onsite Lab	\SC - coc#	USACE-	coc #	
Duplicate Taken: Yes No	Rinsate Taken:	Yes No		
On-site Laboratory Chain of	Custody/Request for A	nalysis		
Requested Testing: TPH BTEX	Chlordane PCB: או או באבו (אר אר אר) ובאבו או אר	s Other_	1	12/31/94
Relinquished by(dd/tt):	753. Received by (dd/tt)://_X/.	Levet	1530
Relinquished by(dd/tt):	Received by (dd/tt):		



Page (of

Location No.: AREE 63BE Date: 12-21-94 GC Analyst: TPH Analyst: MGQ Site: Ft. Devens, MA Method 8080 Sample ID Concentration Action (mg/kg) Level Aroclor 1260 2 ppm chlordane 1 ppm Percent Recovery 2,4,5,6-tcmx decachlorobiphenyl

Concentration (mg/kg)	Action Level	IB40	TB4E	I.858	IBSLI	1850	IB68	IB60	IB60	186£	IB6F	18 8 B	137c	IB70	IBTE	IB 7F		
TRPH	500 ppm	ND	MD	50	324	ND	65	1632	1077	89	193	8 1	221	1630	60	25 J		
																-	_	
	500 ppm																	
	500 ppm																	

ND - indicates TPH was not detected

J - indicates estimated concentration below practical quantitation limit

TPH Worksheet On-site Laboratory Fort Devens - Project #16208

Pg. lof 1

Date: 12-21-94

Site(s): AREE 63BE

Analyst:: MGQ

Sample	Instrument F		Calibration A		Sample	Extract	I LOST		sults
ID	AHC (ppm)	TPH (ppm)	AHC (ppm)	TPH (ppm)	Weight (g)	Vol. (ml)	Dilution	AHC (ppm)	TPH(ppm)
IBAD	ND	ND (5)							nD
IB4E	พง	NO (5)							dn
IB5B	ND (5)	30		48	19-7	20.3	Í		50
IB5C1	37	273		173	10.6	19.9	1	63	3 24
IB5C2	NO	ND (3)							ND
IBGB	ND	11		6	20.2	19.5			65
IB6C	232	130 9	211	841	(0.0	19.4	1	409	1632
TB60	167	901	152	578	10.3	19.2		283	1677
IBGE	27	153	25	95	20.1	18.7	1	23	87
IB6F	60	315	55	200	20.1	19.7	1	.5.3	19:3
IB7B	40	15		9	19.8	19.3	1		87
IB7C	20	341	18	230	20,0	19.2	1	17	221
TB70	248	1320	225	23 ins	10,9	19.9	1	412	_
IB 79%	45	282		179			5		1630
IB7E	13	93	12	60	19.6	19.6	ı	12	60
IB7F	ND	47			20.4	19.1	(255

AHC - Aromatic Hydrocarbons TPH - Total Petroluem Hydrocarbons

Pg. 1 of 4

Date: 12 - 22 - 94

Site Name: AREE 63BE

Weather: Sunny & M. (&

Boring ID: IB8

Samplers: MGA

Sample ID Number	Time	Sample Depth	Blow Counts	Recovery (inches)	Sample Description	PID (ppm)	# of Bottles
TBBA	0840	5-7'	3 4 7.	14"	Tan medium send	ND	1 x 4 oz Amber 6ks
IBBB	0842	7-9	17 3	1011	coarse sand of cobble	ND	1
188C	<i>৩</i> ৪५५	9-11	13 10	15"	coarse sand of cobble coarse sand of s	4.2	
TBBD	0900	11-13	13 10	1911	organy/brown clayey serv	32.0	
IB3 E	0920	13-15	18 35	16"	gray bran clayen send	1.2	
IBBF	0925	15-17	18 33	18"	some as above	1.0	*

Comments: Refusal at	17'		
Map Attached: Yes No	4		
Sample Selected for off-site analysis: _			
Laboratory Destination: Onsite Lab	> ASC - coc #	USACE- coc #_	
Duplicate Taken: Yes	No Rinsate Taker	n: Yes No	
On-site Laboratory Chair	n of Custody/Request for	Analysis	i
Requested Testing: TPH BTE	Chlordane PCI	Bs Other	Listalos
Relinquished by(dd/tt):	1408 Received by	(dd/tt): 1/1/ Jul	1400
Relinquished by(dd/tt):	Received by	(dd/tt)-	

Pg. 2-of 4

Date: 12-22-94

Site Name: AREE 63BE

Weather:

Boring ID: IB9

Samplers:

Time	Sample	Blow	Recovery	Sample	DID (nam)	# of
Time	Берит		(inches)	Description	PID (ppm)	Bottles
1029	5-7"	6 6	(6"	mediton sand - some eval	ND	Amber Glas
1025	7-9'	7 3 3	16"	medium brown sond som	NO	
1040	9-11	16 20		Course sery is copple	ND	
1045	11-13	22 10 8 16	18"	course soud cobble - glay clayer	70	
1055	13-15'		18"	going clayey sand derec	60	
1100	is-17'	20 20	19"	Tray clayer sond	50	
1130	17-19	7 10	3"	wet gray closely sand	3.4	1
	1045	Time Depth 1020 5-7" 1025 7-9" 1040 9-11" 1045 11-13" 1055 13-15" 1100 15-17"	Time Depth Counts 1020 5-7" 4 4 1020 5-7" 8 1035 7-9' 8 13 13 1040 9-11' 4 8 1045 11-13' 8 16 1055 13-15' 8 10 1000 15-17' 13 18 1000 15-17' 10	Time Depth Counts (inches) 1020 5-7" 4 4 4 [6] 1020 5-7" 8 13 16" 1040 $9-11'$ 4 9 15" 1045 $11-13'$ 8 16 $18''$ 1055 $13-15'$ 2 13 $18''$ 1100 $15-17'$ 10 20 19"	Time Depth Counts (inches) Description 1020 5-7" 4 4 4 16" meditor Sand Some wall 1025 7-9" 8 13 16" meditor Drown Sand Some 1040 9-11" 4 8 15" Coasse Sand is cobble gray clayer 1045 11-13" 8 16 18" Garse Sand in Joseph Sand 1055 13-15" 2 13 18" gray clayer Sand 1000 15-17" 10 19" Tray clayer Sand 1000 15-17" 10 19" Tray clayer Sand	Time Depth Counts (inches) Description PID (ppm) 1020 5-7" 4 4 4 16" meditor Sand Some coal ND 1025 7-9" 8 13 16" meditor Drown Sand Som ND 1040 9-11" 4 8 15" Coasse Sand is cobble of gray clayer 70 1045 11-13" 8 16 18" Coasse Sand will don't form 1055 13-15" 2 13 18" gray clayer Sond don't food 1000 15-17" 10 19" gray clayer Sond 50 1000 15-17" 10 19" gray clayer Sond 50 1000 15-17" 10 10 10 10 10 10 10 10 10 10 10 10 10

Comments:			
Map Attached: Yes No			
Sample Selected for off-site analys	is:		
Laboratory Destination: Onsite	Lab ASC - coc#	USACE- coc #	
Duplicate Taken: Ye	s No Rinsate Tal	ken: Yes No	
On-site Laboratory C	Chain of Custody/Request fo	or Analysis	
Requested Testing: TPH	BTEX Chlordane P	CBs Other	
Relinquished by(dd/tt):	Received	by (dd/tt):	.
Relinquished by(dd/tt):	Received	by (dd/tt):	

Pg_3_of_4

Date: 12-22-94

Site Name: AREE 63BE

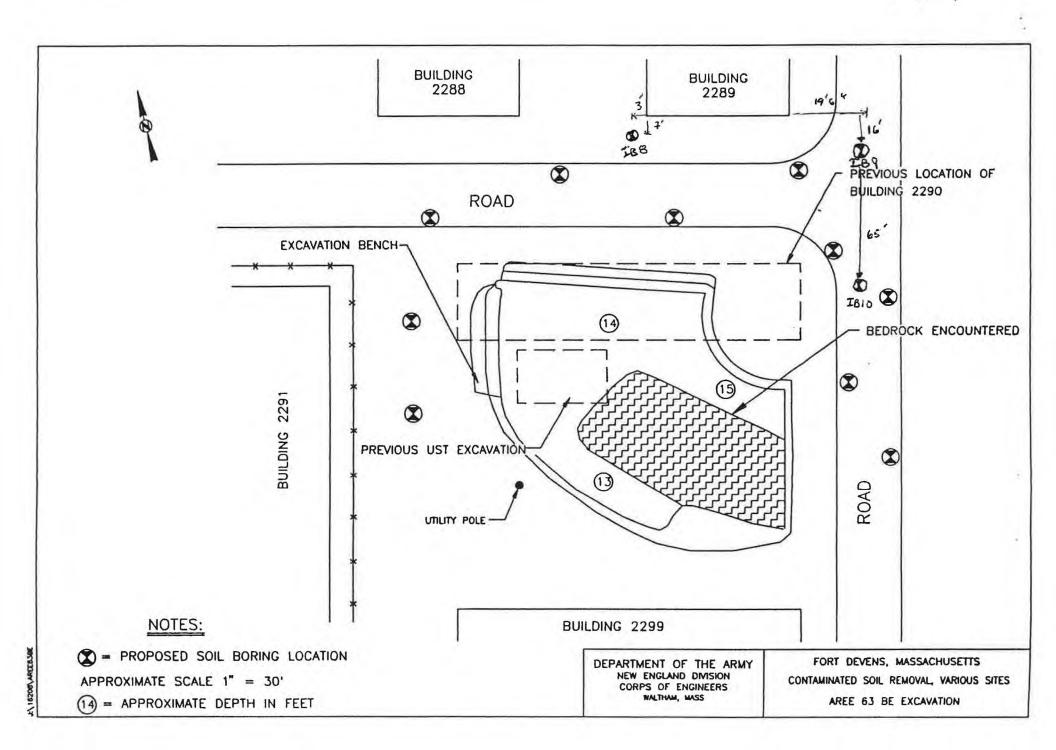
Weather: Sunny & warm

Boring ID: IB 10

Samplers: HGQ

5-7' 7-9'	4 7 3 7 4 12 17 19 14 17	24" 15"	medium tan sond	PID (ppm)	1 x 4 oz Amb. Glass
	17 19		min of medium's coerse sand	4.0	
9-11	14 1+			0.8	
1 3 4 4	15 13	15"	same as above	ND	
11-13	21 17	[["	gray clayer send of petroleum	56	
13-15	7 8	18"	som as above	70	
0 15-17'	9 9	20"	gray dense cloyey send	1.4	
17-19			K IS B	0.6	1
5	13-15'	11-13 6 5 13-15' 7 8 0 15-17' 9 9	11-13 6 5 11° 5 13-15' 7 8 18" 0 15-17' 9 9 20"	0 11-13 6 5 11 gray clayer sent of personal odor 13-15' 7 8 18" Same as above 0 15-17' 9 9 20" gray dense clayer sand	5 13-15' 7 8 18" Some as above 70 0 15-17' 9 9 20" gray dense cloyey sond 1.4

Comments:	
Map Attached: Yes No	
Sample Selected for off-site analysis:	
Laboratory Destination: Onsite Lab	ASC - coc # USACE- coc #
Duplicate Taken: Yes No	Rinsate Taken: Yes No
On-site Laboratory Chain of	Custody/Request for Analysis
Requested Testing: TPH BTEX	Chlordane PCBs Other
Relinquished by(dd/tt):	Received by (dd/tt):
Relinquished by(dd/tt):	Received by (dd/tt):



Site: Ft. Devens, MA	Location No.:	AREE 63BE lean files (c	Date: 12-1	ti.	TPH Analyst: Mas					
Method 8080	工									
	Sample ID) -
Concentration Action (mg/kg) Level										\$
Aroclor 1260 2 ppm			4						.,	
chlordane 1 ppm										
Percent Recovery										
2,4,5,6-lcmx decachlorobiphenyl										
Method 418.1	<u> </u>	1863BE (idiated 1	2.21.94)		T .	- 42/35			

Method 418.1	Sample ID AR63BE (collected 12.21.84) -> AR63BE (collected 12.2									12.27	22.94									
Concentration (mg/kg)	Action Level	ISHA	工品书	Tistic	IB4F	TBSA	5BSD	TASE	TASE	IB6A	787.A		TB8A	TBBB	1289c	I880	188E	183F	189A	189 B
TRPH	500 ppm		ND	NO	ND	ND	WO	ND	ND	NA	ND		ND	ND	23 J	122	ND	ND	ND	ND
		<u></u>	189D	I89€	789F	7594	IBIO A	CHIOB	7.Bloc	(Broil	ZBPÉ	1810F	18104							
	500 ppm	ND	915	573	10/	NĎ	MD	5(8	ND	600		MD	UN							-
Ex63BEC.	2>	1.4	13	10	10	16	15	16	1.4	2 <i>A</i>	28	2C	23							
Clean Piles	500 ppm	ND	45	295	ND	ND	ND	an	16 3	43	18	114	37 J							

\$ 1A + 1H collected on 10/21/94

ND - Indicates TPH not Detected

I - Indicates estimated concentration below Proetreal Durattation

TPH Worksheet On-site Laboratory Fort Devens - Project #16208

Pg. 1_of_2

Date: 12.2294

Site(s): elean pile (CP) Analyst:: MRB Soil bonness

Sample	Instrument F	Response	Calibration /	Adjusted	Sample	Extract	A TOTAL OF		ults	
D /2mc+	AHC (ppm)	TPH (ppm)	AHC (ppm)	TPH (ppm)	Weight (g)	Vol. (ml)	Dilution	AHC (ppm)	TPH(ppm)	
EX 63BEC	(7) 40	(P) MD						WN	NO	
13	33	82		49.7	20.0	18.0			45 3	
رد	33	53		#31	20.3	18.7			29 J	
10	. 10	19			19.8	18.7		MO	ND	
18	ч	16			19.7	13 6		NO	DN	
16	14	5			19.9.	13.6			<i>au</i> ,	
16	9	6			2236	18-		Lp	M	
1 H	14	32		17.5	20.2	13.6			16 5	
1063BE TB4A	M	M(2)						MS	an	
TB4B	NO	MAD)						No	M	
TB4C	NO	M)(2)						No	an	
TBYF	M	24			20.4	18.5		NA	44	
IB5A	no	NO(5)			7 - 7			No	NO	
Insp	110	10(1)						ris	No	
TBSE	AUD.	ma(0)						NO	wo	
TOSF	NP	MO(-5)					NO	wo	
TB6A	Wo	NO(-2)	>					Λ4)	MP	
I 077A	No	M)(4)						NP	MO	
EX63BECT	26	168		105	\$0.3	18.81			98	
28	12	130		80.7	19-2	19.3			81	

AHC - Aromatic Hydrocarbons

TPH - Total Petroluem Hydrocarbons

460

TPH Worksheet On-site Laboratory Fort Devens - Project #16208

Pg. 201_2

Date: 12.22-94

Site(s): Clean Piles (CP) Analyst:: MRB + 100

Sample	Instrument Response		Calibration Adjusted		Sample	Extract	Res	sults	
ID	AHC (ppm)	TPH (ppm)	AHC (ppm)	TPH (ppm)	Weight (g)	Vol. (ml)	Dilution AHC (ppm)	TPH(ppm)	
EX63BECT	42	180		113	19.2	19.4		114	
2 D A2638E	21	64		38	20.3	19.7		375	
IB8A	NP	NO						ND	
IB8B	, ND	ND						ND	
IB8C	ND	44		25.2	19.8	18.2		23 3 50.5	
IB8 D	19	85		51.7		21.5		122	
IB8E	ND	dn						ND	
IB8F	ND	ND						ND	
IB9A	ND	ND						ND	
IB9B	no	Su						Q'N	
189 C	18	12			19.8	21.3		ND	
TB9 D	88	617		394.9	9.6	21.1		915	
IB9E	137	855		5485	18.0	13.8		573	
TB9F	28	(66		104	19.5	18.9		10#	
IB90	NO	10			20.0	19.1		ND	
IBUA	mo	No		. 25				ND	
TBIOB	134	864		554	201	18.8		518	
TBIOC	NO	13			13.4	18.9		ND	
IDOD	187	(060)		680.7	20.3	17.8		600	
IBICE	239	1279		822	20.3	17 0		721	
1310 E	hyp.	18			20.5	10 0		CN	

AHC - Aromatic Hydrocarbons TPH - Total Petroluem Hydrocarbons

IBIOG no 11

20.0 13.4

ND

Appendix F

ASC Analytical Report - Soil Boring Results



ANALYTICAL REPORT

Client: OHM Remediation Services Corporation

Eastern Region (Hopkinton, MA)

Attn: William Snow

Ron Kenyon Mike Quinlan

Project: 16208C - USACE; Fort Devens, MA

Sample Type(s): Solid

Analysis Performed: Conventional and Organic

Date Sample Received: December 28, 1994

Date Order Received: December 28, 1994

Joblink(s): 617328

This report is *PROPRIETARY AND CONFIDENTIAL* and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by:

Date: January 9, 1995

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- o All sample results are reported on a "dry weight" basis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- ASC will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of \$5.00/ sample will be imposed for unreturned samples.

APPENDIX A DATA SUMMARY REPORT

DATA SUMMARY REPORT

DATE: 01/04/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: AR63BEIB1C AR63BEIB2C AR63BEIB3C AR63BEIB4E 63BEIB5C1

ASC Sample Number: JN6597 JN6598 JN6599 JN6600 JN6601 Sample Date: 941220 941220 941221 941221

Facility Code: 016208C 016208C 016208C 016208C 016208C

Parameters Units

Conventional Data (CV10)

Solids, Total % 90.0 92.3 92.2 87.6 89.0

Total Petroleum Hydrocarbon Analysis, IR (IR00)

Petroleum Hydrocarbons (IR) mg/kg <7.41 <7.22 <7.22 12.6 287

DATA SUMMARY REPORT

DATE: 01/04/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

AR63BEIB6D AR63BEIB7D AR63BEIB8D AR63BEIB9D 63BEIB10E Sample Point ID: ASC Sample Number: Sample Date: JN6602 JN6603 JN6604 JN6605 JN6606

941221 941221 941222 941222 941222 Facility Code: 016208C 016208C 016208C 016208C 016208C

Units Parameters

Conventional Data (CV10)

Solids, Total 90.3 89.0 88.0 91.0 89.2

Total Petroleum Hydrocarbon Analysis, IR (IROO)

Petroleum Hydrocarbons (IR) mg/kg 621 1100 140 415 431

APPENDIX B QUANTITATIVE RESULTS

CONVENTIONAL DATA (CV10)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

AR63BEIB1C

JN6597

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	&	90.0	.100	-	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB2C JN6598

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total %	92,3	.100		

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB3C

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	ş	92.2	.100		

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB4E

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total %	87.6	.100		

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

63BEIB5C1

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	o _f o	89.0	.100	-	

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

AR63BEIB6D JN6602

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Golids, Total	8	90.3	.100	_	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB7D JN6603

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number
olids, Total %	89.0	.100	-	
			ý	

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB8D JN6604

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	g ₀	88.0	.100	-	

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

AR63BEIB9D

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
olids, Total	&	91.0	.100	•	
	~				

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

63BEIB10E

	Sample Results	Detection Limits	Blank Results	Batch Number
ફ	89.2	.100	-	
				\$ 89.2 .100 -

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB1C

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	ND	7.41	ND	Q2T41929
c .				

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB2C

Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
ND	7.22	ND	Q2T41929

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB3C

Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
ND	7.22	ND	Q2T41929
		h	
		2 - 1	

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB4E

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	12.6	7.60	ND	Q2T41929

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

63BEIB5C1

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	287	37.5	ND	Q2T41929
		±		
				,

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB6D

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	621	73.8	ND	Q2T41929
			9	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

AR63BEIB7D

Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
1100	74.6	ND	Q2T41929
		rr.	
			-
1			

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB8D

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	140	7.55	ND	Q2T41929
	<u>*</u>			

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEIB9D

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	415	73.3	ND	Q2T41929
		-		

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

63BEIB10E

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	431	74.6	ND	Q2T41929

APPENDIX C QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

ASC Joblink # 617328

REF	ERENCE	TITLE
160.3	CAWW	Residue, Total, Gravimetric, Dried at 103-105 C
418.1	MCAWW	Petroleum Hydrocarbons, Total Recoverable

METHODOLOGY REFERENCES

ASTM	American Society for Testing and Materials, 1985 edition.
CAWW	Methods for Chemical Analysis of Water and Wastes, April 1979 and Updated #1 March 1983.
CLP	USEPA Contract Laboratory Program, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	USEPA Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039 December 1988.
EPA-600	USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057 July 1982.
NIOSH	National Institute for Occupational Safety and Health, 3rd edition, 1984.
SMEWW	Standard Methods for the Examination of Water and Wastewater, 17th edition, 1989.
STOA	Spot Tests In Organic Analysis, 7th edition, 1966.
SW-846	Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in <i>SMEWW</i> , 17th edition, 1989.
Title 22	Waste Extraction Test, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

0	US Army Corps of Engineers	Chemical Analysis in Various Matrices
A	pprovals:	
0	Chemical Waste Management	Waste Characterization Analysis
0	Envirosafe	Waste Characterization Analysis
0	USDA	Permit for Importing Soils
0	Florida DEP	Quality Assurance Plan #930034G
0	Naval Facilities Engineering Service Center	Chemical Analysis in Various Matrices

REPORT KEY

mg/kg = milligram per kilogram (ppm)

Mg/m³ = milligram per cubic meter

ug/kg = microgram per kilogram (ppb)

mg/L = milligram per liter (ppm)

ug/L = microgram per liter (ppb)

mg/W = milligram per wipe

ug/W = microgram per wipe

mg/SMP = milligram per sample

ug/SMP = microgram per sample (Tedlar Bag)

ug/smp = microgram per sample

um/cm = microMho per centimeter

pCi/l = picocurie per liter

gm/cc = grams per cubic centimeter

ppm = parts per million ppb = parts per billion

ND = Not detected at or above stated detection limit

< = less than

> = greater than

% = percent

BTU/lb = British Thermal Units per pound

Deg. C = Degrees Celsius

n/a = not applicable

Unk = unknown

std = result is relative to standard pH units

CV = Conventionals

IR = Infrared Spectrophotometric

GC = Gas Chromatograph Instrument

GC/MS = Gas Chromatography/Mass Spectrometer Instrument

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

PCB = Polychlorinated Biphenyls (PCBs)

EP TOX = Extraction Procedure Toxicity

TCLP = Toxicity Characteristic Leaching Procedure

RCRA = Resource Conservation and Recovery Act

SOW = Statement of Work

QUALITY ASSURANCE DATA

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IROO)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Petroleum Hydrocarbons (IR)	ND	81	ND	78	5	Q2T41929
						1
						, t

APPENDIX D CHAIN-OF-CUSTODY RECORD(S)



CHAIN-OF-CUSTODY RECORD

Form 0019 Field Technical Services Rev. 08/89

No. 107773

OHMA	TERIALS	CORP			P ₊ C	D. BOX 551	• FINDLAY, OH	45839-0551		419	-423-3526					
CLIENT'S REP			Qu	1		PROJECT MAN	PROJECT TELEPHONE NO. 508 772-6 AGER/SUPERVISOR	2019	NUMBER CONTAINERS	(IND)	LLYSIS DESIR CATE RATE TAINERS)	NED LA				
NO NO	MPLE MDER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)		OF		/ * //				REMARKS	
/ AR63	BEIDIC	12005	ogus		×	Gray Cla	- 9-11 death		1	X				802		
3/ AR63B	BETB20	v	1140	-	X	Boring 2 Clayery So Boring 3	nd up westlon	ed ruck	+	+				JAR L.	ABEL ARG3	REI B3D
A	BEIBYE		1310		1	Bosing 4	11-15 depth	-Brown		+						
- Johl-Ca	BETB5C	T	التراحة			Bring 5	9-101 dypth -									
7	BEIBLE		1220		H	3 6	11-13, 9=647 - 1 (1-13, 9=647 - 1	0								
1	BET630	1	143,	-		Clarky 300	11-13' depth-	net gray			#					
A	GETB9D		ious		1	gray cl	- 11-13' depth									
-	IBIOE	1	1255		4	Gray clay	= 1 21-12, 464r	- Moist	b	14	REMARKS			7		
TRANSFER	ITEM NUMBER		1			FERS SHED BY	TRANSFER ACCEPTED	BY	DATE	TIME	Donate of the Contract of	3 day	TA	Τ		
111	1-10		Mal	Kent	1	Thul	Fied. Ex AR		7 /			4°C	- Te	up Bl	lock Inc	lided
3	1-10	7	od o	298	934	5881	M. Radob	ugh	12/2/944	0955			0	`	1	
4						*					SAMPLER'S S	GNATURE /	Jul	V. Zu	in I	

Appendix G

ASC Analytical Report - Confirmation Samples



ANALYTICAL DIVISION

Laboratory Analysis Report

Client: OHM Remediation Services Corp.

Eastern Region (Hopkinton, MA)

Attn:

William Snow

Ron Kenyon Mike Quinlan

Project:

16208C - USACE; Fort Devens, MA

Sample Type(s):

Solid

Analysis Performed:

Conventional and Organics

Date Sample Received: January 14, 1995

Date Order Received: January 14, 1995

Joblink(s): 617428

This report is *PROPRIETARY AND CONFIDENTIAL* and delivered to, and intended for the exclusive use of the above named client only. OHM Remediation Services Corp., Analytical Division, assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and

Approved by:

Dhomas E. Gran, Ph.D., Vice President

Date: January 23, 1995

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- o All solid sample results are reported on a "dry weight" basis.
- o % RPD values which were outside QC limits for the Semi-volatile Organics analysis were attributable to matrix interferences and/or sample nonhomogeneity.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- o Samples will be retained for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of \$5.00/ sample will be imposed for unreturned samples.

APPENDIX A DATA SUMMARY REPORT

DATA SUMMARY REPORT

DATE: 01/20/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point ID: ASC Sample Number: Sample Date: Facility Code:	SBAR63BEAC JN7238 950112 016208C	SBAR63BEBC JN7239 950113 016208C	SBAR63BECC JN7240 950113 016208C	SBAR63BEDC JN7241 950113 016208C	SBAR63BEEC JN7242 950113 016208C	SBAR63BEFC JN7243 950113 016208C	SBAR63BEDP JN7244 950113 016208C	SBAR63BEA JN7245 950112 016208C
Parameters	Units								
Conventional Data	(CV10)								
Solids, Total	8	88.0	83.5	85.2	88.5	85.4	84.6	82.4	87.3
	Sample Point ID: ASC Sample Number: Sample Date: Facility Code:	SBAR63BEBG JN7246 950113 016208C	SBAR63BECG JN7247 950113 016208C	SBAR63BEDG JN7248 950113 016208C	SBAR63BEEG JN7249 950113 016208C	SBAR63BEFG JN7250 950113 016208C	SBAR63BEDU JN7251 950113 016208C		
Parameters	Units								
Conventional Data	(CV10)								
Solids, Total	8	86.0	83.2	88.2	90.8	78.6	91.9		
	Sample Point ID: ASC Sample Number: Sample Date: Facility Code:	SBAR63BEAG JN7245 950112 016208C	SBAR63BEBG JN7246 950113 016208C	SBAR63BECG JN7247 950113 016208C	SBAR63BEDG JN7248 950113 016208C	SBAR63BEEG JN7249 950113 016208C	SBAR63BEFG JN7250 950113 016208C	SBAR63BEDU JN7251 950113 016208C	
Parameters	Units								
BTXE Volatile Ana	lysis, GC, (GV33)								
Benzene Ethylbenzene Toluene Xylenes	mg/kg mg/kg mg/kg mg/kg	<.001 <.001 <.001 <.001	<.001 <.001 <.001 <.001	<.001 <.001 <.001 <.001	<.001 <.001 <.001 <.001	<.108 .808 <.108 <.108	<.005 .009 <.005 <.005	<.051 .276 <.051 <.051	

DATA SUMMARY REPORT

DATE: 01/20/95

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

	mple Point ID: Sample Number: Sample Date: Facility Code:	SBAR63BEAC JN7238 950112 016208C	SBAR63BEBC JN7239 950113 016208C	SBAR63BECC JN7240 950113 016208C	SBAR63BEDC JN7241 950113 016208C	SBAR63BEEC JN7242 950113 016208C	SBAR63BEFC JN7243 950113 016208C	SBAR63BEDP JN7244 950113 016208C
Parameters	Units							
otal Petroleum Hydroca	rbon Analysis,	IR (IROO)						
Petroleum Hydrocarbons	(IR) mg/kg	534	10.5	7.91	57.6	510	200	374
arget Compound List Ba	se/Neutral/Acid	Analysis, 1	MS, (MS22)					
Acenaphthene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Acenaphthylene	mg/kg	< .373	<.389	<.385	< .369	<.385	<.382	<.394
Anthracene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Benzo(a) anthracene	mg/kg	< 373	<.389	<.385	<.369	<.385	<.382	<.394
Benzo (b) fluoranthene	mg/kg	< 373	<.389	<.385	<.369	<.385	<.382	<.394
Belizo (b) II doranthene	mg/kg	2.373	1.505	V.505	V.303	V.363	C.302	C.334
Benzo(k) fluoranthene	mg/kg	- 373	<.389	<.385	<.369	<.385	<.382	< .394
Benzo(ghi)perylene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Benzo (a) pyrene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
bis(2-Chloroethyl) eth		<.373	<.389	<.385	<.369	<.385	<.382	<.394
bis (2-Chloroethyl) eth		4.373				<.305	<.302	
bis(2-Chloroethoxy)met	hane mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
bis(2-Chloroisopropyl)	ether mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
bis(2-Ethylhexyl)phtha	late mg/kg	1.09	<.389	<.385	.672	.938	<.382	.764
4 Dromonhanil phonis	ther mg/kg		<.389	<.385				
4-Bromophenyl phenyl e	ther mg/kg	< . 373			<.369	<.385	<.382	<.394
Butyl benzyl phthalate		<.373	<.389	<.385	<.369	<.385	<.382	<.394
Carbazole	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
4-Chloroaniline	mg/kg	<.373	<.389	<.385	< .369	<.385	<.382	<.394
	mq/kq	<.373	<.389	<.385			<.382	<.394
p-Chloro-m-cresol		<.373	<.389	<.385	<.369	<.385	< . 382	
2-Chloronaphthalene	mg/kg				<.369	<.385	<.382	<.394
2-Chlorophenol	mg/kg	< .373	<.389	<.385	<.369	<.385	<.382	<.394
4-Chlorophenyl phenyl	ether mg/kg	< .373	<.389	<.385	<.369	<.385	<.382	<.394
Chrysene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	< .394
Dibenzo(a,h)anthracene		<.373	<.389	<.385				
			4.309		<.369	<.385	<.382	<.394
Dibenzofuran	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Di-n-butyl phthalate	mg/kg		<.389	<.385	<.369	<.385	<.382	<.394
1,2-Dichlorobenzene	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
1 2 Diahlamahangana	ma /1	. 272	. 700	200	100	305	700	204
1,3-Dichlorobenzene	mg/kg	< .373	<.389	<.385	<.369	<.385	<.382	<.394
1,4-Dichlorobenzene	mg/kg		<.389	<.385	<.369	<.385	<.382	<.394
3,3'-Dichlorobenzidine			<.389	<.385	<.369	<.385	<.382	<.394
2,4-Dichlorophenol	mg/kg		<.389	<.385	<.369	<.385	< .382	<.394
Diethyl phthalate	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Dimekkul mkthelete	7	. 777	200	205	250	1000		44.
Dimethyl phthalate	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
2,4-Dimethylphenol	mg/kg	< .373	<.389	<.385	<.369	<.385	<.382	< .394

DATA SUMMARY REPORT

Sample Point ID: SBAR63BEAC SBAR63BEBC SBAR63BECC SBAR63BEBC SBAR6

DATE: 01/20/95

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point Sample Num Sample 1 Facility	mber: Date:	JN7238 950112 016208C	JN7239 950113 016208C	JN7240 950113 016208C	JN7241 950113 016208C	JN7242 950113 01620BC	JN7243 950113 016208C	JN7244 950113 016208C
Parameters	į.	Units							
arget Compound List B	ase/Neutra	1/Acid	Analysis,	MS, (MS22)					
4,6-Dinitro-o-cresol	1	mg/kg	<.933	<.973	<.962	<.923	<.962	<.954	<.984
2,4-Dinitrophenol	1	mg/kg	<1.87	<1.95	<1.92	<1.85	<1.92	<1.91	<1.97
2,4-Dinitrotoluene		mg/kg	< .373	<.389	< .385	< .369	< .385	<.382	< .394
2,6-Dinitrotoluene		mg/kg	< .373	<.389	<.385	<.369	<.385	<.382	< .394
Di-n-octyl phthalate		mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Fluoranthene		mq/kq	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Fluorene		mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Hexachlorobenzene		mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
			<.373	<.389	<.385	<.369	<.385	<.382	<.394
Hexachlorobutadiene		mg/kg		<.389					
Hexachlorocyclopentad	iene i	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Hexachloroethane	Ĭ	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Indeno(1,2,3-cd)pyren	e i	mg/kg	< .373	<.389	<.385	< .369	< .385	<.382	< .394
Isophorone		mg/kg	<.373	<.389	< .385	< .369	<.385	<.382	< .394
2-Methylnaphthalene		mg/kg	.590	<.389	<.385	<.369	1.12	<.382	1.56
2-Methylphenol	1	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
4-Methylphenol		mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	< .394
N-Nitrosodi-n-propyla	mino	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
N Nitrosodi-h-propyla	mille		<.373	<.389	<.385			<.382	
N-Nitrosodiphenylamin	.e	mg/kg	277	<.389		<.369	<.385		<.394
Naphthalene			<.373		<.385	<.369	<.385	<.382	<.394
2-Nitroaniline		mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
3-Nitroaniline	1	mg/kg	< .373	<.389	<.385	<.369	<.385	<.382	<.394
4-Nitroaniline	ì	mg/kg	< . 373	<.389	<.385	< .369	<.385	<.382	< .394
Nitrobenzene	1	mg/kg	<.373	<.389	<.385	< .369	<.385	<.382	< .394
2-Nitrophenol		mg/kg	<.373	<.389	< .385	< .369	<.385	<.382	< . 394
4-Nitrophenol		mg/kg	<1.87	<1.95	<1.92	<1.85	<1.92	<1.91	<1.97
Pentachlorophenol		mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
Phenanthrene		mg/kg	1.17	<.389	<.385	<.369	.715	.454	.701
Phenol			<.373	<.389	<.385	<.369	<.385	<.382	<.394
Pyrene			<.373	<.389	<.385				
		mg/kg				< .369	<.385	<.382	<.394
1,2,4-Trichlorobenzen	e i	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
2,4,5-Trichlorophenol	1	mg/kg	<.373	<.389	<.385	<.369	<.385	<.382	<.394
2,4,6-Trichlorophenol		mg/kg	< .373	<.389	<.385	<.369	<.385	<.382	<.394

APPENDIX B QUANTITATIVE RESULTS

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEAC

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
olids, Total	*	88.0	.100	-	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEBC

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
ids, Total	ş	83.5	.100	-	

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BECC

		Detection Limits	Blank Results	Batch Number
g.	85.2	.100	-	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDC

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number
lids, Total	% 88.5	.100	-	

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

SBAR63BEEC JN7242

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	8	85.4	.100	-	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEFC

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total %	84.6	.100	-	
	-			
4.				

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

SBAR63BEDP

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	ક્ષ	82.4	.100	•	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEAG

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
olids, Total	્	87.3	.100	~	

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

SBAR63BEBG JN7246

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	g _o	86.0	.100	9	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

SBAR63BECG

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
lids, Total	₽.	83.2	.100		
•					

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDG

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
olids, Total	8	88.2	.100	e	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEEG

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
olids, Total	8	90.8	.100	-	
->-					

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEFG

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	8	78.6	.100	-	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C SBAR63BEDU

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	क्ष	91.9	.100	12	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEAG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene Ethylbenzene Toluene Xylenes	ND ND ND	.001 .001 .001 .001	ND ND ND ND	Q2W4158 Q2W4158 Q2W4158 Q2W4158

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEBG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
enzene thylbenzene oluene ylenes	ND ND ND	.001 .001 .001 .001	ND ND ND ND	Q2W4158 Q2W4158 Q2W4158 Q2W4158

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BECG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
enzene thylbenzene oluene ylenes	ND ND ND ND	.001 .001 .001 .001	ND ND ND ND	Q2W4158 Q2W4158 Q2W4158 Q2W4158

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
nzene hylbenzene luene lenes	ND ND ND ND	.001 .001 .001 .001	ND ND ND ND	Q2W4158 Q2W4158 Q2W4158 Q2W4158

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEEG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene Ethylbenzene Toluene Xylenes	ND .808 ND ND	.108 .108 .108 .108	ND ND ND ND	Q2W4161 Q2W4161 Q2W4161 Q2W4161

BTXE VOLATILE ANALYSIS, GC, (GV33)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEFG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene Ethylbenzene Toluene Xylenes	ND .009 ND ND	.005 .005 .005 .005	ND ND ND ND	Q2W4158 Q2W4158 Q2W4158 Q2W4158
			*	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDU

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene Ethylbenzene Toluene Kylenes	ND .276 ND ND	.051 .051 .051	ND ND ND ND	Q2W4161 Q2W4161 Q2W4161 Q2W4161

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEAC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	534	37.9	ND	Q2T50051

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEBC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	10.5	7.81	ND	Q2T50051
	1.			

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BECC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	7.91	7.75	ND	Q2T50051
*				

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	57.6	7.46	ИD	Q2T50051

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEEC

Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
510	76.6	ND	Q2T50051

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEFC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	200	7.78	ND	Q2T50051

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDP

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	374	40.0	ND	Q2T50051

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEAC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	.373 ,373 .373 .373 .373	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Benzo(k) fluoranthene Benzo(ghi) perylene Benzo(a) pyrene bis(2-Chloroethyl) ether bis(2-Chloroethoxy) methane	ND ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
bis(2-Chloroisopropyl)ether bis(2-Ethylhexyl)phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND 1.09 ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
4-Chloroaniline p-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether	ND ND ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Chrysene Dibenzo(a,h)anthracene Dibenzofuran Di-n-butyl phthalate 1,2-Dichlorobenzene	ND ND ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate	ND ND ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.373 .373 .933 1.87 .373	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ND ND ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone	ND ND ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	590 ND ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEAC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
aphthalene -Nitroaniline -Nitroaniline -Nitroaniline itrobenzene	ND ND ND ND ND	.373 .373 .373 .373 .373	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
-Nitrophenol -Nitrophenol entachlorophenol henanthrene henol	ND ND ND 1.17 ND	.373 1.87 .373 .373 .373	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
yrene ,2,4-Trichlorobenzene ,4,5-Trichlorophenol ,4,6-Trichlorophenol	ND ND ND ND	.373 .373 .373 .373	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050
			*	

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEBC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	.389 .389 .389 .389 .389	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Benzo(k) fluoranthene Benzo(ghi) perylene Benzo(a) pyrene bis(2-Chloroethyl) ether bis(2-Chloroethoxy) methane	ND ND ND ND ND	.389 .389 .389 .389 .389	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
bis(2-Chloroisopropyl)ether bis(2-Ethylhexyl)phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND ND ND ND ND	.389 .389 .389 .389	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
4-Chloroaniline p-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether	ND ND ND ND ND	.389 .389 .389 .389	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Chrysene Dibenzo(a,h)anthracene Dibenzofuran Di-n-butyl phthalate ,2-Dichlorobenzene	ND ND ND ND ND	.389 .389 .389 .389 .389	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate	ND ND ND ND ND	.389 .389 .389 .389	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.389 .389 .973 1.95 .389	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ND ND ND ND ND	.389 .389 .389 .389	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone	ND ND ND ND ND	.389 .389 .389 .389	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	ND ND ND ND ND	.389 .389 .389 .389	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEBC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Naphthalene -Nitroaniline -Nitroaniline -Nitroaniline Jitrobenzene	ND ND ND ND ND	.389 .389 .389 .389	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
-Nitrophenol -Nitrophenol Pentachlorophenol Phenanthrene Phenol	ND ND ND ND ND	.389 1.95 .389 .389	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Pyrene 1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ND ND ND ND	.389 .389 .389 .389	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050
		The state of the s		

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BECC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a) anthracene Benzo(b) fluoranthene	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Benzo(k) fluoranthene Benzo(ghi) perylene Benzo(a) pyrene bis(2-Chloroethyl) ether bis(2-Chloroethoxy) methane	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
bis(2-Chloroisopropyl)ether bis(2-Ethylhexyl)phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
4-Chloroaniline p-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Chrysene Dibenzo(a,h)anthracene Dibenzofuran Di-n-butyl phthalate ,2-Dichlorobenzene	ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.385 .385 .962 1.92 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BECC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
aphthalene -Nitroaniline -Nitroaniline -Nitroaniline itrobenzene	ND ND ND ND ND	.385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
-Nitrophenol -Nitrophenol entachlorophenol henanthrene henol	ND ND ND ND ND	.385 1.92 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
yrene ,2,4-Trichlorobenzene ,4,5-Trichlorophenol ,4,6-Trichlorophenol	ND ND ND ND	.385 .385 .385 .385	ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	.369 .369 .369 .369 .369	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Benzo(k) fluoranthene Benzo(ghi)perylene Benzo(a)pyrene bis(2-Chloroethyl) ether bis(2-Chloroethoxy)methane	ND ND ND ND ND	.369 .369 .369 .369 .369	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
bis(2-Chloroisopropyl)ether bis(2-Ethylhexyl)phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND .672 ND ND ND	.369 .369 .369 .369	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
4-Chloroaniline p-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether	ND ND ND ND	.369 .369 .369 .369	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Chrysene Dibenzo(a,h)anthracene Dibenzofuran Di-n-butyl phthalate 1,2-Dichlorobenzene	ND ND ND ND ND	.369 .369 .369 .369	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate	ND ND ND ND	.369 .369 .369 .369	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.369 .369 .923 1.85 .369	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ир ир ир ир ир	.369 .369 .369 .369	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone	ND ND ND ND ND	.369 .369 .369 .369	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	ND ND ND ND ND	.369 .369 .369 .369	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Taphthalene -Nitroaniline -Nitroaniline -Nitroaniline (Itrobenzene	ND ND ND ND ND	.369 .369 .369 .369 .369	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
-Nitrophenol -Nitrophenol entachlorophenol henanthrene henol	ND ND ND ND ND	.369 1.85 .369 .369	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
yrene ,2,4-Trichlorobenzene ,4,5-Trichlorophenol ,4,6-Trichlorophenol	ND ND ND ND	.369 .369 .369 .369	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEEC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	.385 .385 .385 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Benzo(k)fluoranthene Benzo(ghi)perylene Benzo(a)pyrene bis(2-Chloroethyl) ether bis(2-Chloroethoxy)methane	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
bis(2-Chloroisopropyl)ether bis(2-Ethylhexyl)phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND . 938 ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
4-Chloroaniline p-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Chrysene Dibenzo(a,h)anthracene Dibenzofuran Di-n-butyl phthalate ,2-Dichlorobenzene	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate	ND ND ND ND ND	,385 ,385 ,385 ,385 ,385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.385 .385 .962 1.92 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ND ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone	ND ND ND ND ND	.385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	1.12 ND ND ND ND	.385 .385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEEC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
aphthalene -Nitroaniline -Nitroaniline -Nitroaniline itrobenzene	ND ND ND ND ND	.385 .385 .385 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
-Nitrophenol -Nitrophenol entachlorophenol henanthrene henol	ND ND ND .715 ND	.385 1.92 .385 .385 .385	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
yrene ,2,4-Trichlorobenzene ,4,5-Trichlorophenol ,4,6-Trichlorophenol	ND ND ND ND	.385 .385 .385 .385	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEFC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Benzo(k)fluoranthene Benzo(ghi)perylene Benzo(a)pyrene bis(2-Chloroethyl) ether bis(2-Chloroethoxy)methane	ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
bis(2-Chloroisopropyl)ether bis(2-Ethylhexyl)phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
4-Chloroaniline p-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether	ND ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Chrysene Dibenzo(a,h)anthracene Dibenzofuran Di-n-butyl phthalate ,2-Dichlorobenzene	ND ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate	ND ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.382 .382 .954 1.91 .382	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ND ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone	ND ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	ND ND ND ND ND	.382 .382 .382 .382 .382	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEFC

ND ND ND ND ND ND A54 ND ND ND ND ND ND ND	.382 .382 .382 .382 .382 .382 .382 .382	ND N	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
ND ND .454 ND ND ND ND	1.91 .382 .382 .382 .382 .382	ND ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
ND ND	.382	ND ND	Q2C50050 Q2C50050

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDP

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Benzo(k)fluoranthene Benzo(ghi)perylene Benzo(a)pyrene bis(2-Chloroethyl) ether bis(2-Chloroethoxy)methane	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
ois(2-Chloroisopropyl)ether ois(2-Ethylhexyl)phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND .764 ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
4-Chloroaniline o-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Chrysene Dibenzo(a,h) anthracene Dibenzofuran Di-n-butyl phthalate ,2-Dichlorobenzene	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate	ND ND ND ND ND	.394 .394 .394 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.394 .394 .984 1.97 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
Mexachlorobutadiene Mexachlorocyclopentadiene Mexachloroethane Indeno(1,2,3-cd)pyrene Isophorone	ND ND ND ND ND	.394 .394 .394 .394	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	1.56 ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEDP

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
aphthalene -Nitroaniline -Nitroaniline -Nitroaniline itrobenzene	ND ND ND ND ND	.394 .394 .394 .394	ND ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
-Nitrophenol -Nitrophenol entachlorophenol henanthrene henol	ND ND ND .701 ND	.394 1.97 .394 .394 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
yrene ,2,4-Trichlorobenzene ,4,5-Trichlorophenol ,4,6-Trichlorophenol	ND ND ND ND	.394 .394 .394 .394	ND ND ND ND	Q2C50050 Q2C50050 Q2C50050 Q2C50050
				1

APPENDIX C QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Joblink # 617428

REFE	ERENCE	TITLE
160.3	CAWW	Residue, Total, Gravimetric, Dried at 103-105 C
418.1	MCAWW	Petroleum Hydrocarbons, Total Recoverable
8020	SW-846	Aromatic Volatile Organics by GC
8270	SW-846	GC/MS for Semivolatile Organics: Capillary Column Technique

METHODOLOGY REFERENCES

ASTM	American Society for Testing and Materials, 1985 edition.
CAWW	Methods for Chemical Analysis of Water and Wastes, April 1979 and Updated #1 March 1983.
CLP	USEPA Contract Laboratory Program, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	USEPA Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039 December 1988.
EPA-600	USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057 July 1982.
NIOSH	National Institute for Occupational Safety and Health, 3rd edition, 1984.
SMEWW	Standard Methods for the Examination of Water and Wastewater, 17th edition, 1989.
STOA	Spot Tests In Organic Analysis, 7th edition, 1966.
SW-846	Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in <i>SMEWW</i> , 17th edition, 1989.
Title 22	Waste Extraction Test, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

Laboratory Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

0	US Army Corps of Engineers	Chemical Analysis in Various Matrices
A	oprovals:	
0		Waste Characterization Analysis Waste Characterization Analysis
0	USDA	Permit for Importing Soils
0	Florida DEP	Quality Assurance Plan #930034G
0	Naval Facilities Engineering Service Center	Chemical Analysis in Various Matrices

REPORT KEY

mg/kg = milligram per kilogram (ppm)

Mg/m³ = milligram per cubic meter

ug/kg = microgram per kilogram (ppb)

mg/L = milligram per liter (ppm)

ug/L = microgram per liter (ppb)

mg/W = milligram per wipe

ug/W = microgram per wipe

mg/SMP = milligram per sample

ug/SMP = microgram per sample (Tedlar Bag)

ug/smp = microgram per sample

um/cm = microMho per centimeter

pCi/l = picocurie per liter

gm/cc = grams per cubic centimeter

ppm = parts per million ppb = parts per billion

ND = Not detected at or above stated detection limit

< = less than

> = greater than

% = percent

BTU/lb = British Thermal Units per pound

Deg. C = Degrees Celsius

n/a = not applicable

Unk = unknown

std = result is relative to standard pH units

CV = Conventionals

IR = Infrared Spectrophotometric

GC = Gas Chromatograph Instrument

GC/MS = Gas Chromatography/Mass Spectrometer Instrument

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

PCB = Polychlorinated Biphenyls (PCBs)

EP TOX = Extraction Procedure Toxicity

TCLP = Toxicity Characteristic Leaching Procedure

RCRA = Resource Conservation and Recovery Act

SOW = Statement of Work

QUALITY ASSURANCE DATA

BTXE Volatile Analysis, GC, (GV33)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
enzene thylbenzene coluene cylenes	ND ND ND	94 92 94 93	ND ND ND .001	91 71 88 70	3 4 12 5	Q2W4158 Q2W4158 Q2W4158 Q2W4158
						_

QUALITY ASSURANCE DATA

BTXE Volatile Analysis, GC, (GV33)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	
enzene thylbenzene oluene ylenes	ND ND ND	102 101 100 101	ND .276 ND ND	102 102 103 122	4 2 4 9	Q2W4161 Q2W4161 Q2W4161 Q2W4161

QUALITY ASSURANCE DATA

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Petroleum Hydrocarbons (IR)	ИD	90	534	-	-	Q2T50051
¥:			-			
*						
•						

Matrix spike recoveries are not available due to the dilution of the QC matrix spike sample extracts during analysis.

UUALITY ASSURANCE DATA

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene p-Chloro-m-cresol 2-Chlorophenol 1,4-Dichlorobenzene 2,4-Dinitrotoluene	ND ND ND ND ND	72 72 66 70 74	ND ND ND ND ND	108 116 122 111 41	9 15 14 16 81	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
N-Nitrosodi-n-propylamine 4-Nitrophenol Pentachlorophenol Phenol Pyrene	ND ND ND ND ND	70 77 85 60 74	ND ND ND ND ND	139 118 - 115 128	22 52 - 9 4	Q2C50050 Q2C50050 Q2C50050 Q2C50050 Q2C50050
1,2,4-Trichlorobenzene	ND	75,	ND	122	9	Q2C50050
					r	

3-Methyl- and 4-Methylphenol coelute and are reported as the total Variable QC matrix spike recoveries were attributed to sample matrix interference.

QUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

TITOTO CAMBO TO	21.50	2222	2222	2004		22.42	и от	
SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT	
QC BATCH: Q2C5005	Solid (Sen	ni-Volati)	le organio	es by MS)				
SAMPLE ID	40	24	22	0.00	0.2	- 65		
BLANK	75	84	75	85	83	77	0	
BLANK SPIKE	78	79	87	79	82	86	0	
EXAR66C1C MD	100 D	126 D	74 D	101 D	127 D	129 D	0	
EXAR66C1C MS SBAR63BEAC	120 D 55	137 D 67	99 D 52	119 D 68	144 D 92	131 D 74	0	
SBAR63BEBC	66	77	35	69	73	76	0	
SBAR63BECC	63	72	38	66	67	70	Ö	
SBAR63BEDC	55	66	100	53	69	64	ő	
SBAR63BEDP	77	83	87	86	89	69	Õ	
SBAR63BEEC	74	80	75	79	93	71	0	
SBAR63BEFC	74	80	70	75	79	76	0	
QC LIMITS	(25-121)	(24-113)	(19-122)	(23-120)	(30-115)	(18-137)		
3013	,== ===,	(02 200)	(, , , , , , , , , , , , , , , , , , , ,	(00 ==0)	A		CIP SECTION
SURROGATE ID	A228	# OUT						
QC BATCH: Q2W4158	Solid (Vola	tile orga	anics by	GC)				
SAMPLE ID								
SAMPLE ID								
14031 MD	79	0						
14031 MD	79 84	0						
14031 MS	84	0						
14031 MS BLANK		0.70						
14031 MS	84 98	0						
14031 MS BLANK BLANK SPIKE	84 98 92	0						
14031 MS BLANK BLANK SPIKE SBAR63BEAG	84 98 92 106	0 0 0						
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BEBG SBAR63BECG SBAR63BEDG	84 98 92 106 98 93 100	0 0 0 0 0 0						
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BEBG SBAR63BECG	84 98 92 106 98 93	0 0 0 0 0						
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BEBG SBAR63BECG SBAR63BEDG	84 98 92 106 98 93 100	0 0 0 0 0 0						
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BEBG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS	84 98 92 106 98 93 100 106 (30-130)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BECG SBAR63BECG SBAR63BECG SBAR63BECG	84 98 92 106 98 93 100	0 0 0 0 0 0						
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BEBG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS	84 98 92 106 98 93 100 106 (30-130)	0 0 0 0 0 0 0	anics by (ic)				
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BECG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS SURROGATE ID QC BATCH: Q2W4161	84 98 92 106 98 93 100 106 (30-130)	0 0 0 0 0 0 0	anics by (FC)				
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS SURROGATE ID QC BATCH: Q2W4161	84 98 92 106 98 93 100 106 (30-130) A228 Solid (Vols	O O O O O O O O O O O O O O O O O O O	anics by (3 C)				
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS SURROGATE ID QC BATCH: Q2W4161 BLANK	84 98 92 106 98 93 100 106 (30-130)	0 0 0 0 0 0 0	anics by (PC)				
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS SURROGATE ID QC BATCH: Q2W4161	84 98 92 106 98 93 100 106 (30-130) A228 Solid (Vols	O O O O O O O O O O O O O O O O O O O	anics by (3C)				
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS SURROGATE ID QC BATCH: Q2W4161 SAMPLE ID BLANK BLANK SPIKE	84 98 92 106 98 93 100 106 (30-130) A228 Solid (Vols	O O O O O O O O O O O O O O O O O O O	anics by (GC)				
14031 MS BLANK BLANK BLANK SPIKE SBAR63BEAG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS SURROGATE ID QC BATCH: Q2W4161 SAMPLE ID BLANK BLANK SPIKE SBAR63BEDU	84 98 92 106 98 93 100 106 (30-130) A228 Solid (Volation	0 0 0 0 0 0 0 0 0 0	anics by (GC)				
14031 MS BLANK BLANK SPIKE SBAR63BEAG SBAR63BECG SBAR63BEDG SBAR63BEFG QC LIMITS SURROGATE ID QC BATCH: Q2W4161 SAMPLE ID BLANK BLANK SPIKE SBAR63BEDU SBAR63BEDU SBAR63BEDU MD	84 98 92 106 98 93 100 106 (30-130) A228 Solid (Vols	0 0 0 0 0 0 0 0 0 0	anics by (PC)				

SURROGATE ID

A159 = 2-Fluorophenol B732 = Phenol-D6 A121 = 2,4,6-Tribromophenol

A884 = Nitrobenzene-D5 A158 = 2-Fluorobiphenyl B142 = Terphenyl-D14

A228 = a,a,a-Trifluorotoluene

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D CHAIN-OF-CUSTODY RECORD(S)



CHAIN-OF-CL TODY RECORD

Form 0019 Fechnical Services Rev. 08/89 No. 107782

_											_			_		140.	1.011	
O.H. N	MATERIALS	CORF			P.C), BOX 551	• FINDLAY, OH 45839-0551	•	419	-423	-3526			3)			
CLIENTS R	+ D	É	ACT CO	0			PROJECT TELEPHONE NO. (508) 772-2019 AGER/SUPERVISOR	NUMBER	(IND	ALYSI ICATE ARATE TAINE		IRED TO	6					
E	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)	-O-		19			//	//		REM	ARKS	
1 SBA	AC	1.12.	1570	V		, onlos	ite clay a pt	ZXY	V	1								
2 50%	AG-	1.12.	1442		1	pt SBARE	exish Seral from	2×4										
3 SBA	863BE BC	1-13	1200	1			s, Ity med slurry	2×40	2 /	1								
71	63 BE BG	1-13	1205		1	TAN CLAYES		2×40 VOA			/							
5	2 63BE CC	1-13	1300	1		TAN SAND	MUP, Slurry U/some	2×40	2 /	1								
161	R 63 BE CG	1-13	1305		1	TAN SAND	From SBARGBBECI	ZXYON			/							
1	R 63 BE DC	1-13 95	1360	1		DET ROCH		2×40	z /	/								
	638E DG	1-13	1210		V	Gray Clay - Grab	From SAAR GREET F	Z × 40	4		1				4 Grab	30-1-13-		0 TA 0E
	638E	1-13	1530				mud slurry	2 x 40	2 /	1					1	Su	NJ NEE	.U 10 UL
10 SBAA	₹63BE EG	1-13	1335	1-139	5		grained Sand	Z X40	ml .						1			
TRANSFER	ITEM NUMBER	a l	1			FERS SHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REN	MARKS	0	J.	· Ti	p blow ved u	K 1	nclude	al
1	1-10		Vill	_ /		1	1825103383 Faderal Express, Airbill #	1-13 95	1730			B	Pro	sec	loed u	400		
2	1-10		Fed & 1825	103	38	う	All X of		1235		9	7	-met	hylo	aphthaki	ne de	tection 1.	mit
3												m	UST WELL	AT	LEAST RE	BACH O.	7 PPM (on the
4										SAM	PLER'S				B100			



CHAIN-OF-C! TODY RECORD

Form 0019 Technical Services

No. 107784

															110. 101101	
O.H. N	MATERIALS	CORF			P.C	D. BOX 551	• FINDLAY, OH 45839-0551		41	9-42	3-352	6				
PROJECT	NAME					PROJECT LOC	ATION	1					-	7	1111111	_
200						Α	M i				SIS DE	SIRED	/	/	///////	
PROJ NO	Devens	CT CONT				Ayer	MA PROJECT TELEPHONE NO.	- "	(IND				(43)	//	//////	
	1							H.		ARAT		/	1	/		
1620	8 MIK	e Qu	sinlar	1			(508) -777 - Z 019	E Z	COL	MIATE	ERS)	1	4/	/	/////	
CLIENT'S	REPRESENTATIV	Æ				PROJECT MAN	AGER/SUPERVISOR	A P	- 1		1	/ \	/	//		
Ti.	Taleman					Bill Sno	a.r.	NUMBER	1		15	8/	//	/	////	
	DICTION	-	T			11311 3110	ω	4 -2	1	1	18	1	/	//		
TEM NO	SAMPLE			COMP	00		SAMPLE DESCRIPTION	0	7 N .	/	3/00	1	//	/		
E 1	SAMPLE NUMBER	DATE	TIME	õ	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)		1/	10	14	654	/	//		
							TOUT OF BAME LEY		/	Y	/	Z,	//	1	REMARKS	
SBA	R63BE	1-13	1545	1/	1	Grey Mud	4/too silty slend slucy	2 x 40	2/	1						
	FC	95	12.17	Y	1	m. itare	1	7	17	1				1 1		
	R63BE		144.5		1	6 M.	1	Z x 40	~1		1					
2	F6	15	15 5		1	0,0	from SBAR G3BEFI	VOA			1/			1 1		
Coo	1863BE	-	1330		1	Orab	+rom SBAR BSBEFT			-	+			-	- 1 6 1 1	
3 284		1	1330	1./		Brown Gr	y MUC SLOPPY	2×40	2 1/	1/			1	1 1	Composite Duplicate	
	Dp	10	#100	Y			bup hud slorry		V	V						
	R63BE		1307-		1	Grey Clay TI	PH ODDE	2 X40	m		1				Grab Duplicate	
4	DG DU	11.	1335		1	7	Me	Vo		14	Y					
	Co 1-13-4						-00							1		
5	90 1 2 6	11						+			4	1		1 1		_
		-			-					-	-	-	-	1		
6		11						-			1					
				-	-					-	_		_	1		
7			1					10								
1			1											1		
				1					7							
8														1 1		
										+			+	+ +		
9				1				-								
				-	-					-	-			-		
10								_								
							4		- 1							
NUMBER				-			An and Anna			RE	MARK	S .	3 de	W TI	AT .	
15 Z	NUMBER	n			RANS	FERS SHED BY	TRANSFERS ACCEPTED BY	DATE	TIME							
E S	HOMBE	*	- 0	ITELIT	10010	INCO DI	AGGETTEGET	DATE	THALE				Ten	np B	dank included	
			1. 11	-	1		1825103383		100	+			1.2.0		Wank included ed at 4°C	
1	1-4	1	2)	1	M		187210 239 2	1-13	1730	1		1	pre	seru	ec at 4.5	
	-		- WW	اسير	NL		Fider of Express Airbill #	1-13 95 14/95		-					1 1 1 1 1	
2	1 11		Fed	EX	- 1-		111101-14	1/1/2	1000	1		1.0	Z -	Meth	ylnaphthalere detection limit AT LEAST REACH 0.7 PPM low end. If there is any ques call!!	
	1-4		18251	103	383		MULYON	17/95	125				Mo	ST A	IT LEAST DEALH 0.7 PPM	
							1 7						00	140	low and	. L
.3													P	10651	call 11 . If there is any que	21207
										SAN	APLEB'S	SIGN	TURE	-130	· · · · · · · · · · · · · · · · · · ·	
4											1/1	4	V//			
											VI.	-	-IH			



ANALYTICAL DIVISION

Laboratory Analysis Report

Client:

OHM Remediation Services Corp.

Eastern Region (Hopkinton, MA)

SBAR63BEGC, GG,

Attn:

William Snow

Ron Kenyon Mike Quinlan

Project:

16208C - USACE; Fort Devens, MA

Sample Type(s):

Liquid and Solid

alysis Performed: Conventional and Organics

Date Sample Received:

January 17, 1995

Date Order Received:

January 17, 1995

Joblink(s): 617438

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. OHM Remediation Services Corp., Analytical Division, assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Date: January 23, 1995

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- o All solid sample results are reported on a "dry weight" basis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- o Samples will be retained for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of \$5.00/ sample will be imposed for unreturned samples.
- o Due to the high amount of TPHC in the unspiked sample, a matrix spike/matrix spike duplicate was not recovered. Batch acceptance is based on method spike recovery which is within QC limits.

APPENDIX A DATA SUMMARY REPORT

DATE: 01/20/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: SBAR63BEGC ASC Sample Number: JN7284 Sample Date: 950116

Facility Code: 016208C

Parameters

Units

Conventional Data (CV10)

Solids, Total % 83.2

Total Petroleum Hydrocarbon Analysis, IR (IROO)

Petroleum Hydrocarbons (IR) mg/kg 143

Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	mg/kg mg/kg mg/kg mg/kg mg/kg	<.394 <.394 <.394 <.394 <.394
Benzo(k)fluoranthene	mg/kg	<.394
Benzo(ghi)perylene	mg/kg	<.394
Benzo(a)pyrene	mg/kg	<.394
bis(2-Chloroethyl) ether	mg/kg	<.394
bis(2-Chloroethoxy)methane	mg/kg	<.394
bis(2-Chloroisopropyl)ether	mg/kg	<.394
bis(2-Ethylhexyl)phthalate	mg/kg	1.08
4-Bromophenyl phenyl ether	mg/kg	<.394
Butyl benzyl phthalate	mg/kg	<.394
Carbazole	mg/kg	<.394
4-Chloroaniline	mg/kg	<.394
p-Chloro-m-cresol	mg/kg	<.394
2-Chloronaphthalene	mg/kg	<.394
2-Chlorophenol	mg/kg	<.394
4-Chlorophenyl phenyl ether	mg/kg	<.394
Chrysene Dibenzo(a,h)anthracene Dibenzofuran Di-n-butyl phthalate 1,2-Dichlorobenzene	mg/kg mg/kg mg/kg mg/kg mg/kg	<.394 <.394 <.394 <.394 <.394
1,3-Dichlorobenzene	mg/kg	<.394
1,4-Dichlorobenzene	mg/kg	<.394
3,3'-Dichlorobenzidine	mg/kg	<.394
2,4-Dichlorophenol	mg/kg	<.394

DATE: 01/20/95

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: SBAR63BEGC ASC Sample Number: JN7284 Sample Date: 950116 Facility Code: 016208C

Parameters

Units

Target Compound List Base/Neu	tral/Acid	Analysis,	MS,	(MS22)
Diethyl phthalate	mg/kg	- 394		
Dimethyl phthalate	mg/kg			
2,4-Dimethylphenol	mg/kg	201		
4,6-Dinitro-o-cresol	mg/kg	< 004		
	mg/kg			
2,4-Dinitrophenol	mg/kg	<1.97		
2,4-Dinitrotoluene	mg/kg	< .394		
2,6-Dinitrotoluene	mg/kg			
Di-n-octyl phthalate	mg/kg	< .394		
Fluoranthene	mg/kg	< .394		
Fluorene	mg/kg			
Hexachlorobenzene	mg/kg	- 201		
Hexachlorobutadiene				
Hexachlorocyclopentadiene	mg/kg	< 394		
	mg/kg	4.354		
Hexachloroethane	mg/kg	< . 394		
Indeno(1,2,3-cd)pyrene	mg/kg	<.394		
Isophorone	mg/kg	<.394		
2-Methylnaphthalene	mg/kg			
2-Methylphenol	mg/kg			
4-Methylphenol	mg/kg	< .394		
N-Nitrosodi-n-propylamine	mg/kg	<.394		
N-Nitrosodiphenylamine	mq/kq	< 394		
Naphthalene	mg/kg			
2-Nitroaniline	mg/kg			
3-Nitroaniline				
4-Nitroaniline	mg/kg mg/kg	< 304		
4-NICIOANIIIINE	mg/kg	4.334		
Nitrobenzene	mg/kg	< .394		
2-Nitrophenol	mg/kg	< .394		
4-Nitrophenol	mg/kg	<1.97		
Pentachlorophenol	mg/kg			
Phenanthrene	mg/kg			
Phenol	mg/kg	<.394		
Pyrene				
	mg/kg			
1,2,4-Trichlorobenzene	mg/kg			
2,4,5-Trichlorophenol	mg/kg			
2,4,6-Trichlorophenol	mg/kg	<.394		

DATE: 01/20/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: SBAR63BEGG
ASC Sample Number: JN7285
Sample Date: 950116

Facility Code: 016208C

Parameters

Units

Conventional Data (CV10)

Solids, Total

88.0

BTXE Volatile Analysis, GC, (GV33)

Benzene		<.110
Ethylbenzene	mg/kg	.499
Toluene	mg/kg	<.110
Xylenes	mg/kg	.635

DATE: 01/20/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: AR63BEWB ASC Sample Number: JN7286 Sample Date: 950116 Facility Code: 016208C

Parameters

Units

BTXE Volatile Analysis, GC, (GV33)

Benzene	mg/L	<.001
Ethylbenzene	mg/L	< .001
Toluene	mg/L	<.001
Xylenes	mg/L	<.001

Total Petroleum Hydrocarbon Analysis, IR (IROO)

Petroleum Hydrocarbons (IR) mg/L <.127

Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

4				
	Acenaphthene Acenaphthylene	mg/L	<.016	
١	Anthracene	mq/L	<.016	
ı	Benzo(a) anthracene	mg/L	<.016	
ı	Benzo (b) fluoranthene	mg/L	<.016	
1	Benzo (B) Li dolanenene	mg/ D		
١	Benzo(k)fluoranthene	mg/L	<.016	
١	Benzo(ghi)perylene	mq/L	<.016	
1	Benzo(a) pyrene	mg/L	<.016	
ı	bis(2-Chloroethyl) ether	mg/L	<.016	
١	bis (2-Chloroethoxy) methane	mg/L	<.016	
ı		٠.		
١	bis(2-Chloroisopropyl)ether	mq/L	<.016	
١	bis(2-Ethylhexyl)phthalate	mg/L	.088	
ı	4-Bromophenyl phenyl ether	mg/L	<.016	
1	Butyl benzyl phthalate	mg/L	<.016	
1	Carbazole	mg/L	<.016	
١	100000000000000000000000000000000000000	-		
	4-Chloroaniline	mg/L	< .016	
	p-Chloro-m-cresol	mg/L	<.016	
ı	2-Chloronaphthalene	mg/L	<.016	
١	2-Chlorophenol	mg/L	<.016	
١	4-Chlorophenyl phenyl ether	mg/L	<.016	
ı		9,		
١	Chrysene	mg/L	<.016	
۱	Dibénzo(a,h)anthracene	mg/L	<.016	
١	Dibenzofuran	mg/L	<.016	
I	Di-n-butyl phthalate	mg/L	<.016	
I	1,2-Dichlorobenzene	mg/L	<.016	
I		3/ -	27.75	
١	1,3-Dichlorobenzene	mq/L	<.016	
ı				

DATE: 01/20/95

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: AR63BEWB
ASC Sample Number: JN7286
Sample Date: 950116
Facility Code: 016208C

Parameters

Units

Target	Compound	List	Base/	Neutral,	/Acid	Analysis,	MS,	(MS22)
--------	----------	------	-------	----------	-------	-----------	-----	--------

1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate Dimethyl phthalate	mg/L mg/L mg/L mg/L mg/L	<.016 <.016 <.016 <.016 <.016
2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene	mg/L mg/L mg/L mg/L	<.016 <.040 <.081 <.016 <.016
Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene	mg/L mg/L mg/L mg/L	<.016 <.016 <.016 <.016 <.016
Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone 2-Methylnaphthalene	mg/L mg/L mg/L mg/L mg/L	<.016 <.016 <.016 <.016 <.016
2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine Naphthalene	mg/L mg/L mg/L mg/L	<.016 <.016 <.016 <.016 <.016
2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol	mg/L mg/L mg/L mg/L mg/L	<.016 <.016 <.016 <.016 <.016
4-Nitrophenol Pentachlorophenol Phenanthrene Phenol Pyrene	mg/L mg/L mg/L mg/L	<.081 <.016 <.016 <.016 <.016

DATE: 01/20/95

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: AR63BEWB
ASC Sample Number: JN7286
Sample Date: 950116
Facility Code: 016208C

Parameters

Units

Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

1,2,4-Trichlorobenzene	mq/L	<.016
2,4,5-Trichlorophenol	mg/L	<.016
2,4,6-Trichlorophenol	mg/L	<.016

APPENDIX B QUANTITATIVE RESULTS

CONVENTIONAL DATA (CV10)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEGC

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	ş	83.2	.100	H.	
1					

CONVENTIONAL DATA (CV10)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEGG

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
lids, Total	g.	88.0	.100	-	
- ·					

BTXE Volatile Analysis, GC, (GV33)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEGG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Benzene Ethylbenzene Toluene Kylenes	ND .499 ND .635	.110 .110 .110 .110	ND ND ND ND	Q2W4171 Q2W4171 Q2W4171 Q2W4171

BTXE Volatile Analysis, GC, (GV33)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEWB

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
enzene thylbenzene oluene ylenes	ND ND ND ND	.001 .001 .001 .001	ND ND ND ND	Q1W4163 Q1W4163 Q1W4163 Q1W4163

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IROO)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEGC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	143	40.0	ND	Q2T50063

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IROO)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEWB

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
roleum Hydrocarbons (IR)	ND	.127	ND	P1T5004

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEGC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
Benzo(k) fluoranthene Benzo(ghi) perylene Benzo(a) pyrene Dis(2-Chloroethyl) ether Dis(2-Chloroethoxy) methane	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
ois(2-Chloroisopropyl)ether ois(2-Ethylhexyl)phthalate a-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND 1.08 ND ND ND	.394 .394 .394 .394	ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
A-Chloroaniline D-Chloro-m-cresol B-Chloronaphthalene B-Chlorophenol B-Chlorophenyl phenyl ether	ND ND ND ND ND	.394 .394 .394 .394	ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
Chrysene Dibenzo(a,h) anthracene Dibenzofuran Di-n-butyl phthalate ,2-Dichlorobenzene	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,3'-Dichlorobenzidine 1,4-Dichlorophenol Diethyl phthalate	ND ND ND ND ND	.394 .394 .394 .394	ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.394 .394 .984 1.97 .394	ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
Mexachlorobutadiene Mexachlorocyclopentadiene Mexachloroethane Mindeno(1,2,3-cd)pyrene Misophorone	םת מא מא מא מא	.394 .394 .394 .394	ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	.421 ND ND ND ND	.394 .394 .394 .394	ND ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

SBAR63BEGC

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Waphthalene 2-Nitroaniline 3-Nitroaniline 3-Nitroaniline Witrobenzene	ND ND ND ND ND	.394 .394 .394 .394 .394	ND ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
-Nitrophenol -Nitrophenol Pentachlorophenol Phenanthrene Phenol	ND ND ND ND ND	.394 1.97 .394 .394 .394	ND ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
Pyrene 1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ND ND ND	.394 .394 .394 .394	ND ND ND ND	Q2C50042 Q2C50042 Q2C50042 Q2C50042

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEWB

JN7286

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene	ND ND ND ND ND	.016 .016 .016 .016	ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
Benzo(k)fluoranthene Benzo(ghi)perylene Benzo(a)pyrene bis(2-Chloroethyl) ether bis(2-Chloroethoxy)methane	ND ND ND ND ND	.016 .016 .016 .016 .016	ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
bis(2-Chloroisopropyl)ether bis(2-Ethylhexyl)phthalate 4-Bromophenyl phenyl ether Butyl benzyl phthalate Carbazole	ND - 088 ND ND ND	.016 .016 .016 .016 .016	ND ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
4-Chloroaniline p-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether	ND ND ND ND ND	.016 .016 .016 .016 .016	ND ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
Chrysene Dibenzo(a,h) anthracene Dibenzofuran Di-n-butyl phthalate 1,2-Dichlorobenzene	ND ND ND ND ND	.016 .016 .016 .016 .016	ND ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol Diethyl phthalate	ND ND ND ND ND	.016 .016 .016 .016 .016	ND ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
Dimethyl phthalate 2,4-Dimethylphenol 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND ND ND ND	.016 .016 .040 .081 .016	88 88 88 88 88 88 88 88 88 88 88 88 88	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
2,6-Dinitrotoluene Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene	ND ND ND ND ND	.016 .016 .016 .016 .016	20 20 20 20 20 20 20 20 20 20 20 20 20 2	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone	ND ND ND ND ND	.016 .016 .016 .016 .016	ND ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
2-Methylnaphthalene 2-Methylphenol 4-Methylphenol N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine	00 00 00 00 00 00	.016 .016 .016 .016 .016	ND ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

AR63BEWB

JN7286

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
aphthalene -Nitroaniline -Nitroaniline -Nitroaniline itrobenzene	ND ND ND ND ND	.016 .016 .016 .016	ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
-Nitrophenol -Nitrophenol entachlorophenol henanthrene henol	ND ND ND ND	.016 .081 .016 .016 .016	ND ND ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
yrene ,2,4-Trichlorobenzene ,4,5-Trichlorophenol ,4,6-Trichlorophenol	ND ND ND ND	.016 .016 .016 .016	ND ND ND	P1C50034 P1C50034 P1C50034 P1C50034
	1			

APPENDIX C QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Joblink # 617438

REFE	ERENCE	TITLE
160.3	CAWW	Residue, Total, Gravimetric, Dried at 103-105 C
418.1	MCAWW	Petroleum Hydrocarbons, Total Recoverable
8020	SW-846	Aromatic Volatile Organics by GC
8270	SW-846	GC/MS for Semivolatile Organics: Capillary Column Technique

METHODOLOGY REFERENCES

ASTM	American Society for Testing and Materials, 1985 edition.
CAWW	Methods for Chemical Analysis of Water and Wastes, April 1979 and Updated #1 March 1983.
CLP	USEPA Contract Laboratory Program, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	USEPA Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039 December 1988.
EPA-600	USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057 July 1982.
NIOSH	National Institute for Occupational Safety and Health, 3rd edition, 1984.
SMEWW	Standard Methods for the Examination of Water and Wastewater, 17th edition, 1989.
STOA	Spot Tests In Organic Analysis, 7th edition, 1966.
SW-846	Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in SMEWW, 17th edition, 1989.
Title 22	Waste Extraction Test, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

Laboratory Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	ОНЕРА	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

o US Army Corps of Engineers	Chemical Analysis in Various Matrices
Approvals:	
o Chemical Waste Management	Waste Characterization Analysis Waste Characterization Analysis Permit for Importing Soils Quality Assurance Plan #930034G Chemical Analysis in Various Matrices

REPORT KEY

mg/kg = milligram per kilogram (ppm)

Mg/m³ = milligram per cubic meter

ug/kg = microgram per kilogram (ppb)

mg/L = milligram per liter (ppm)

ug/L = microgram per liter (ppb)

mg/W = milligram per wipe

ug/W = microgram per wipe

mg/SMP = milligram per sample

ug/SMP = microgram per sample (Tedlar Bag)

ug/smp = microgram per sample

um/cm = microMho per centimeter

pCi/l = picocurie per liter

gm/cc = grams per cubic centimeter

ppm = parts per million ppb = parts per billion

ND = Not detected at or above stated detection limit

< = less than

> = greater than

% = percent

BTU/lb = British Thermal Units per pound

Deg. C = Degrees Celsius

n/a = not applicable

Unk = unknown

std = result is relative to standard pH units

CV = Conventionals

IR = Infrared Spectrophotometric

GC = Gas Chromatograph Instrument

GC/MS = Gas Chromatography/Mass Spectrometer Instrument

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

PCB = Polychlorinated Biphenyls (PCBs)

EP TOX = Extraction Procedure Toxicity

TCLP = Toxicity Characteristic Leaching Procedure

RCRA = Resource Conservation and Recovery Act

SOW = Statement of Work

BTXE Volatile Analysis, GC, (GV33)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	
Benzene Ethylbenzene Toluene Kylenes	ND ND ND ND	93 96 96 95	ND .499 ND .635	97 110 105 96	1 13 7 1	Q2W4171 Q2W4171 Q2W4171 Q2W4171

BTXE Volatile Analysis, GC, (GV33)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	
Senzene Ethylbenzene Toluene Kylenes	ND ND ND ND	102 104 101 108	ND ND ND	99 100 98 102	3 2 3	Q1W4163 Q1W4163 Q1W4163 Q1W4163

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	
Petroleum Hydrocarbons (IR)	ND	78	143		-	Q2T50063

Matrix spike recoveries are not available due to the dilution of the QC matrix spike sample extracts during analysis.

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Petroleum Hydrocarbons (IR)	ND	79	.118	82	1	P1T50048

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
cenaphthene -Chloro-m-cresol -Chlorophenol ,4-Dichlorobenzene ,4-Dinitrotoluene	ND ND ND ND	56 56 50 54 64	ND ND ND ND ND	50 49 45 44 51	11 10 13 15 8	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
-Nitrosodi-n-propylamine -Nitrophenol entachlorophenol Phenol Pyrene	ND ND ND ND ND	55 66 85 48 58	ND ND ND ND ND	49 50 30 43 44	10 9 15 13 14	Q2C50042 Q2C50042 Q2C50042 Q2C50042 Q2C50042
.,2,4-Trichlorobenzene	ND	61	ND	55	12	Q2C50042

³⁻Methyl- and 4-Methylphenol coelute and are reported as the total

TARGET COMPOUND LIST BASE/NEUTRAL/ACID ANALYSIS, MS, (MS22)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L		Relative Percent Diff	Batch Number
Acenaphthene p-Chloro-m-cresol 2-Chlorophenol 1,4-Dichlorobenzene 2,4-Dinitrotoluene	ND ND ND ND ND	61 59 55 48 70	ND ND ND ND ND	60 59 51 47 68	4 5 9 18 4	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
N-Nitrosodi-n-propylamine 4-Nitrophenol Pentachlorophenol Phenol Pyrene	ND ND ND ND ND	63 35 111 30 64	ND ND ND ND ND	60 53 118 40 63	6 1 1 7 4	P1C50034 P1C50034 P1C50034 P1C50034 P1C50034
1,2,4-Trichlorobenzene	ND	55	ND	56	17	P1C50034

³⁻Methyl- and 4-Methylphenol coelute and are reported as the total

UUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

AR63BEWB MD 61 50 115 67 AR63BEWB MS 53 46 108 59 BLANK 47 37 99 65 BLANK SPIKE 49 34 102 65 QC LIMITS (30-130) (30-130) (30-130) (30-130) (30 C BATCH: Q2C50042 Solid (Semi-Volatile organics by MS) SAMPLE ID BLANK 59 67 78 64 BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60	71 72 75 78 70 76 67 61 73 78 0-130) (30-13 67 56 69 72 67 56 64 64 60 56	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AR63BEWB 54 46 108 65 AR63BEWB MD 61 50 115 67 AR63BEWB MS 53 46 108 59 BLANK 47 37 99 65 BLANK SPIKE 49 34 102 65 QC LIMITS (30-130) (30-130) (30-130) (30-130) (30 CC BATCH: Q2C50042 Solid (Semi-Volatile organics by MS) SAMPLE ID BLANK 59 67 78 64 BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	75 78 70 76 67 61 73 78 0-130) (30-13 67 56 69 72 67 56 64 64	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AR63BEWB MD 61 50 115 67 AR63BEWB MS 53 46 108 59 BLANK 47 37 99 65 BLANK SPIKE 49 34 102 65 QC LIMITS (30-130) (30-130) (30-130) (30-130) (30 CC BATCH: Q2C50042 Solid (Semi-Volatile organics by MS) SAMPLE ID BLANK 59 67 78 64 BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	75 78 70 76 67 61 73 78 0-130) (30-13 67 56 69 72 67 56 64 64	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AR63BEWB MS 53 46 108 59 BLANK 47 37 99 65 BLANK SPIKE 49 34 102 65 QC LIMITS (30-130) (30-130) (30-130) (30-130) (30 QC BATCH: Q2C50042 Solid (Semi-Volatile organics by MS) SAMPLE ID BLANK 59 67 78 64 BLANK 59 67 78 64 BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	70 76 67 61 73 78 0-130) (30-13 67 56 69 72 67 56 64 64	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
BLANK SPIKE 49 34 102 65 QC LIMITS (30-130) (30-130) (30-130) (30-130) (30 QC BATCH: Q2C50042 Solid (Semi-Volatile organics by MS) SAMPLE ID BLANK 59 67 78 64 BLANK 59 67 78 64 BLANK 59 67 78 64 BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	67 61 78 78 0-130) (30-13 67 56 69 72 67 56 64 64	0 0 0 0 0 0
BLANK SPIKE 49 34 102 65 QC LIMITS (30-130) (30-130) (30-130) (30-130) (30 QC BATCH: Q2C50042 Solid (Semi-Volatile organics by MS) SAMPLE ID BLANK 59 67 78 64 BLANK 59 67 78 64 BLANK 59 67 78 64 BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	73 78 0-130) (30-13 67 56 69 72 67 56 64 64	0 0 0 0 0
QC LIMITS (30-130) (30-130) (30-130) (30-130) (30 QC BATCH: Q2C50042 Solid (Semi-Volatile organics by MS) SAMPLE ID BLANK 59 67 78 64 BLANK 591KE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	0-130) (30-13 67 56 69 72 67 56 64 64	0 0 0 0
SAMPLE ID BLANK 59 67 78 64 BLANK 59 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	67 56 69 72 67 56 64 64	0 0 0 0
SAMPLE ID BLANK 59 67 78 64 BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	69 72 67 56 64 64	0 0
BLANK 59 67 78 64 BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	69 72 67 56 64 64	0 0
BLANK SPIKE 63 63 99 61 SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	69 72 67 56 64 64	0 0
SBAR63BEGC 56 64 61 60 SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	67 56 64 64	0
SBAR63BEGC MD 58 60 59 60 SBAR63BEGC MS 50 53 62 52	64 64	0
SBAR63BEGC MS 50 53 62 52		
	60 56	0
QC LIMITS (25-121) (24-113) (19-122) (23-120) (30		
4 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	0-115) (18-13	17)
SURROGATE ID A228 # OUT	n d	AE - N.
OC BATCH: Q1W4163 Aqueous (Volatile organics by GC)		A TO
SAMPLE ID		
AR63BEWB 98 0		
BLANK 95 0		
BLANK SPIKE 102 0		
WWE011695B MD 96 0		
WWE011695B MS 100 0		
QC LIMITS (30-130)		

18/12/15/01 1/H	0.000				PDQ838
QC BATCH: Q2W	4171 Solid	(Volatile	organics	by	GC)
SAMPLE ID					
BLANK	1	00 0			
BLANK SPIKE		98 0			

SBAR63BEGG 101 SBAR63BEGG MD 98 0 SBAR63BEGG MS 100 0

OC LIMITS (30-130)

SURROGATE ID

A159 = 2-Fluorophenol B732 = Phenol-D6

A121 = 2,4,6-Tribromophenol A884 = Nitrobenzene-D5

A158 = 2-Fluorobiphenyl B142 = Terphenyl-D14

A228 = a,a,a-Trifluorotoluene

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D CHAIN-OF-CUSTODY RECORD(S)



CHAIN-OF-CUSTODY RECORD

Form 0019 Field Technical Services Rev. 08/89

_										_					1.0. 10.	.00
0	H. MATERIALS	CORP			P.C	D. BOX 551	FINDLAY, OH 4583	39-0551		419	-423	-3526				
PROJECT NAME FORT DEVENS PROJECT CONTACT 16 ZO B MTKE QUINLAN CLIENT'S REPRESENTATIVE TIM COLEMAN SAMPLE NUMBER DATE TIME O BY BY BY BY SAMPLE NUMBER DATE TIME O BY SAMPLE NUMBER DA				AYER	PROJECT LOCATION AYER MA PROJECT TELEPHONE NO. (508) - 772 - 2019 PROJECT MANAGER/SUPERVISOR BILL SUO: SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)			ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)								
느	BARL'S BE	1-16	1	ŏ	Ü	2 1			7	/	9	76	7/	//	REMARKS	
1	GC	95	1045	1		Brown ten	Mud Slurry U/100	TE	2x402	V		1				
2	BARGBBE		104		1	Brown m	on Supleport SBARG3		2×40m		1				SOIL	
1	AR63BE	1.16	1128		1	FOUTPME	ENT REUSATE FOR		2×400	1	1	7			TRPHO BTEX	preserved (P)
4																0
5																
6																
7																
8																
9												1				
10																
TRANSFER	HE WE STAND THEM TRANSFERS RELINQUISHED IN THE STANDS OF T			TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS , 3 DAY TAT , TEMP BLANK TULLUDED								
	1-3		ed D				Federal Express	#	1-16	1530						
	1-3		Feely			Federal Express	Ve.	1/17/25	095	0958 must at least re 2-methy/monthulene		detec	run limit on BUA			
	3										2-	net!	hy/194	phthal	ac. Any Question place	all.
K	1										SAME	LERIS	AL.	RE	, , , , ,	